Inventory of the Department of Irrigation Photographs

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Creator: University of California, Davis. Department of Irrigation
Title: Department of Irrigation Photographs
Date (inclusive): 1895-1959
Extent: 26.8 linear feet
Abstract: The UC Davis Department of Irrigation Photographs contain images taken by the department from 1895-1959. Subjects include many topics related to California irrigation including dams, canals, reservoirs, pumps, wells, preparing land for irrigation, and field and laboratory experiments. Most of the images were taken in California, however there are also photographs from other locations in the western United States.
Physical location: Researchers should contact Special Collections to request collections, as many are stored offsite.
Repository: University of California, Davis. Library. Department of Special Collections.
Davis, California 95616-5292
Collection number: AR-058
Language of Material: Collection materials in English.
Administrative History
The Division of Irrigation of the College of Agriculture was an outgrowth of events that began in the summer of 1900 when University of California President Benjamin I. Wheeler invited Elwood Mead, head of the United States Department of Agriculture's irrigation investigations, to organize teaching and research on irrigation in the University.

The early program at Davis included irrigation experiments with alfalfa and field crops, as well as the installation of a small vineyard to demonstrate contour-furrow irrigation.

Other early division activities includes studies of irrigation and irrigation possibilities in various parts of the state, the irrigation census in California of 1910 for the Bureau of the Census, a study of irrigation resources of California, and publication of the first irrigation map of California, for the State Conservation Commission.

In the 1920s members of the Division of Irrigation at Davis helped develop the California Water Plan, and a second California Irrigation map (1922). The Division became the Department of Irrigation in 1936, with a faculty of ten under the leadership of Frank Veihmeyer.

Scope and Content
The collection contains negatives and prints of images taken by the department from 1895-1959. Subjects include dams, canals, reservoirs, pumps, wells, preparing land for irrigation and field and laboratory experiments. Most of the images were taken in California but there are also photographs from the Western United States.

Arrangement of the Collection
The collection is arranged in two series: 1. Index to images and 2. Negatives and prints.

Indexing Terms
The following terms have been used to index the description of this collection in the library's online public access catalog.
University of California, Davis. Department of Irrigation--History--Pictorial works
Veihmeyer, Frank J., 1886-1977
Adams, Frank, 1875-1967
Irrigation--California--History--Pictorial works
Water resources development--California-- History--Pictorial works
Water districts--California-- History--Pictorial works

Access
Collection is open for research.

Processing Information
Sara Gunasekara processed this collection. Data entry assistance was provided by student employees My-Hanh Nguyen and Carena Leung.

Acquisition Information
Transferred from the Department of Land, Air, and Water Resources.

Preferred Citation
[Identification of item], Department of Irrigation Photographs, AR-058, Department of Special Collections, General Library, University of California, Davis.

Publication Rights
Series 1. Index of images 1895-1959

Physical Description: 3.6 linear feet

Scope and Content Note
The index is comprised of cards that contain the image descriptions as well as mounted prints. The index is organized according to the department's original classification system.

Box 59:1
700-A-a-143 Salter Fill, Modesto Irrigation District 1915 December 5
Photographer: Hutchins, Wells A.
Scope and Content Note
This shows the downstream slope of the Salter Fill, ready for lining.

Box 59:2
700-A-a-144 Dam in Strawberry Furrow, Pajaro Valley, California 1915 August 26
Photographer: Hutchins, Wells A.
Scope and Content Note
These dams are placed at intervals of about 80 feet in furrows in a strawberry field where the furrows are given any grade. Their purpose is to hold back the irrigation water and thus to permit of an adequate irrigation at the upper ends of the furrows as well as at the lower ends. The reason for laying the furrows on a grade is to permit rain water to run off in the winter where the soil is so heavy that it does not absorb rain water as it falls. Otherwise the water would flood over the berry vines and injure them. These dams are of earth and are covered with cloth or paper to prevent their washing away. These excess water flows over the dam into the next section below.

Box 59:3
700-A-a-145 Section of Morgan Fill, Turlock Irrigation District, Cal. 1915 December 1
Photographer: Hutchins, Wells A.
Scope and Content Note
This shows the type of slate rock used for the two outer walls of this fill. The only hydraulic material was placed inside. Owing to the looseness of this slate rock, the fill has settled several inches. At the bottom of the picture is shown the lower end of the storm culvert beneath the fill.

Box 59:4
700-A-a-146 Upper Dominici Fill, Modesto Irrigation District, Cal. 1915 December 5
Photographer: Hutchins, Wells A.
Scope and Content Note
On the east is a vertical cliff, showing where the fill has settled. The loose material at the top had recently wasted there and the rains started erosion.

Box 59:5
700-A-a-147 West End of San Fernando Dam, Los Angeles Aqueduct, California. 1915 December 21
Photographer: Hutchins, Wells A.
Scope and Content Note
The aqueduct gate is shown on the hillside; also trestle of three pipes for sluicing.
Box 59:6 700-A-a-148 Lower Slope of Hydraulicked Mockingbird Canyon Lake Dam, Riverside, California. 1915 December 14
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   The wasteway is shown on the right.

Box 59:7 700-A-a-149 Rairden Fill, Modesto Irrigation District, California. 1915 February 5
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This shows the upper side of the fill. The sand pump and sluiceway can be seen on the left of the picture.

Box 59:8 700-A-a-150 Mockingbird Canyon Lake Dam, Riverside, California. 1915 December 14
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This is the upper slope of the Dam, showing the core-wall. This picture and Picture No. 700-A-a-155 form a panorama.

Box 59:9 700-A-a-151 Morgan Fill, Turlock Irrigation District, Cal. 1915 December 01
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This view was taken looking up the canal.

Box 59:10 700-A-a-152 San Fernando Dam, Los Angeles Aqueduct, California. 1915 December 21
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This picture was taken looking east. The drainage well is shown in the foreground.

Box 59:11 700-A-a-153 East End of San Fernando Dam, Los Angeles Aqueduct, California 1915 December 21
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   Earth is being hauled from the steam shovel and dumped in the crusher and sump, above the east end of the Dam.

Box 59:12 700-A-a-154 Diversion weir of Moore dam, Yolo Water and Power Co., Cache Creek 1914 August
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 59:13 700-A-a-155 Mockingbird Canyon Lake Dam, Riverside, California. 1915 December 14
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This is the upper slope of the Dam, showing the core-wall. This picture and Picture No. 700-A-a-150 form a panorama.

Box 59:14 700-A-a-156 Brush Breakwater near Saugus, California. 1915 June 30
   Photographer: Hutchins, Wells A.
   Scope and Content Note
700-A-a-157 Indian Hill Hydraulic Fill, Modesto Irrigation District, Cal. 1915 December 05
Photographer: Hutchins, Wells A.
Scope and Content Note
On the right is shown the end of the hydraulicking flume. A portion of the concrete side lining in course of construction is shown in the distance adjoining the lining of the canal beyond the fill. The contract price of hydraulicking this fill was 24-1/2 cents per cubic yard for about 36,000 cubic yards of fill.

700-A-a-158 La Grange Dam on Tuolumne River, La Grange, California. 1915 July 31
Photographer: Hutchins, Wells A.
Scope and Content Note
On the left is the headgate of the Modesto Canal, and at the right is the hillside through which the Turlock tunnel is constructed.

700-A-a-159 Capay Dam of the Yolo Water & Power Co., Yolo County, Cal. 1914 November 27
Photographer: Hutchins, Wells A.
Scope and Content Note
This is a diversion dam situated on Cache Creek, several miles above Capay in Yolo County, completed February 1913, at a cost of $45,000. On the right is the headgate of Adams Canal which supplies water for lands on north side of Cache Creek. At the south end of the dam, just outside the picture, is a similar headgate for Winters Canal, which supplies lands in the neighborhood of Madison and thence south to Winters and east to Davis.

700-A-a-160 Capay Dam of Yolo Water & Power Co., on Cache Creek, Cal. (See Picture No. 700-A-a-159) 1915 November 1
Photographer: Hutchins, Wells A.
Scope and Content Note

700-A-a-161 Capay Dam of Yolo Water & Power Co., on Cache Creek, Cal. (See Picture No. 700-A-a-159) 1915 November 1
Photographer: Hutchins, Wells A.
Scope and Content Note

700-A-a-162 Diversion Dam and Head of East Ditch, Big Rock Creek Irrigation District, Cal. 1915 June 30
Photographer: Hutchins, Wells A.
Scope and Content Note
This picture was taken June 30, 1915, following a winter of very heavy rainfall, and it undoubtedly shows more water in Big Rock Creek than would be found at this time of the summer in a year of normal rainfall.

700-A-a-163 Clear Lake Impounding Dam, Yolo Water & Power Co., near Lower Lake, Cal. 1914 November 28
Photographer: Hutchins, Wells A.
Scope and Content Note
This is located at the first riffle in Cache Creek after leaving Clear Lake. The dam was completed October 1, 1914, at a cost of $80,000. The dam has 15 gates capable of discharging 12,000 cubic feet per second. On the right is the gate leading to the tunnel which is intended to supply water for power purposes lower down on Cache Creek.
Box 59:22  700-A-a-164 Part of Clear Lake Dam, Yolo Water and Power Company, near Lower Lake, California. 1914 November 28
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This view represents the south end of this impounding dam. This picture and Pictures Nos. 166 & 167 form a panorama. For description of the dam see Picture No. 163. The picture was taken from the lower side.

Box 59:23  700-A-a-165 Rairden Fill, Downstream Side, and Looking Down Canal, Modesto Irrigation District, Cal. 1915 December 5
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   The sub-structure of the wooden flume can be seen projecting above the hydraulicked earth.

Box 59:24  700-A-a-166 Part of Clear Lake Dam, Yolo Water and Power Company, near Lower Lake, California. 1914 November 28
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This view represents the middle of the impounding dam. This picture and Pictures Nos. 164 & 167 form a panorama. For description of the dam see Picture No. 163.

Box 59:25  700-A-a-167 Part of Clear Lake Dam, Yolo Water and Power Company, near Lower Lake, California. 1914 November 28
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This view represents the north end of the impounding dam. This picture and Pictures Nos. 164 & 166 form a panorama. For description of the dam see Picture No. 163.

Box 59:26  700-A-a-168 San Fernando Dam, Cal., Showing Outlet Towers. undated
   Photographer: Adams, Frank
   Scope and Content Note
   This is a hydraulic filled dam, situated at the edge of San Fernando Valley, near San Fernando, on the line of the Los Angeles aqueduct. Water enters the reservoir from the aqueduct through a spillway on the left, not shown in the picture. A division box is located at the spillway and from that the main pipe line for the Los Angeles city supply passes through the left-hand tower. Water can also be taken into this pipe from the reservoir through the left-hand tower. The right-hand tower is the outlet to the San Fernando Irrigation District.

Box 59:27  700-A-a-169 This, and the Succeeding Picture, Show Bassano Dam, on the Canadian Pacific Railroad Project, East of Calgary, Alberta, Canada. undated
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:28  700-A-a-170 Submerged dam, Tujonga Wash, Los Angeles, county. 1916
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 59:29  700-A-a-172 Bassano Dam, on the Canadian Pacific Railroad Project, East of Calgary, Alberta, Canada. (See Picture No. 169) undated
   Photographer: Adams, Frank
   Scope and Content Note
Box 59:30  700-A-a-173  Capay Dam, Yolo Water and Power Company, California. 1914
Photographer: J.L.K.
Scope and Content Note

Box 59:31  700-A-a-174  Restraining Dam of the Yolo Water and Power Company at the Outlet of
Clear Lake, California. 1914
Photographer: J.L.K.
Scope and Content Note

Box 59:32  700-A-a-175  Diverting Dam, Across Cache Creek, Yolo Water and Power Company,
California. undated
Photographer:
Scope and Content Note

Box 59:33  700-A-a-176  Diversion dam for feeder canal to supply East Park Reservoir Dam, from
above, Orland Project, Cal. 1914
Photographer: J.L.K.
Scope and Content Note

Box 59:34  700-A-a-177  Diversion Dam and Supply Canal to East Park Reservoir, Orland Project,
California. 1914
Photographer: J.L.K.
Scope and Content Note

Box 59:35  700-A-a-178  East Park Reservoir Dam, Orland Project, California. 1914
Photographer: J.L.K.
Scope and Content Note

Box 59:36  700-A-a-179  Inner facing in the San Fernando Dam, Above the Los Angeles Aqueduct
System, California. 1914 December
Photographer: J.L.K.
Scope and Content Note

Box 59:37  700-A-a-180  Old Bear Valley Dam, San Bernardino County, California. undated
Photographer: Tait, C.E.
Scope and Content Note

Box 59:38  700-A-a-181  Dam at outlet of Mc Coy Flat Reservoir on headwaters of Susan River,
Lassen Co. 1917 July
Photographer: Adams, Frank
Scope and Content Note
This reservoir is the property of the Lassen Irrigation Company. The dam was enlarged
while the system was under the control of Scott McArthur prior to its sale to the farmers
at Standish.
Box 59:39  700-A-a-182 Possible Dam Site in Bear River on Property owned by Ivan H. Parker of Auburn 1917 November

Photographer: Adams, Frank

Scope and Content Note
The width of the canyon at the bottom of the dam would be about 80 feet and with a hundred foot height the top width would be about 300 feet. The reservoir site back of this dam site was surveyed in 1904 as a proposed debris collecting basin. At an elevation of 75 feet above the present bed this survey gives the storage capacity as 7,500,000 cubic yards; at an elevation of 100 feet a storage capacity of 14,500,000 cubic yards or about 9000 acre feet. The elevation of this reservoir site is about 1800 feet according to Mr. Parker or about 450 feet above Auburn.

Box 59:40  700-A-a-183 Morena Dam, San Diego County, showing crest and lower face 1917 November

Photographer: Adams, Frank

Scope and Content Note

Box 59:41  700-A-a-184 Morena Dam, San Diego County, showing crest and upper face. 1917 November

Photographer: Adams, Frank

Scope and Content Note
Moreno Reservoir was formerly one of the properties of the Southern California Mountain Water Co., but is now owned by the city of San Diego for a portion of its municipal supply. The height of the dam as completed in 1912 was 267 feet. The crest was raised 5 feet in 1916 in order to give a larger head over the spillway without overtopping during flood periods.

Box 59:42  700-A-a-185 New La Mesa Eastwood Type Multiple Arch Dam. Cuyamaca Water System, San Diego County, nearing completion January, 1918. 1918 January

Photographer: Adams, Frank

Scope and Content Note
This dam is 900 feet long and 113 feet high and was to be completed in January, 1918 at an approximate cost of $130,000.

Box 59:43  700-A-a-186 Central Arch of new La Mesa Multiple Arch Dam, Cuyamaca Water System, San Diego County, January, 1918. 1918 January

Photographer: Adams, Frank

Scope and Content Note

Box 59:44  700-A-a-187 Clearing Magalia Dam Site, Paradise Irrigation District, July, 1917 1917 July

Photographer: Adams, Frank

Scope and Content Note
The trench in the center is for puddled core. The reservoir made by the dam to be built at this site has a capacity of only 3200 acre-feet when built to a height of 90 feet. Two dams are necessary at this site, one where the clearing is under way and a smaller one where the trestle is shown at the extreme top center of the picture.

Box 59:45  700-A-a-189 Looking Down Stream from Big Meadows Dam. 1917 July

Photographer: Adams, Frank

Scope and Content Note
On the left is shown uncompleted portion of Eastwood Multiple Arch Dam abandoned prior to construction of present dam. July, 1917.
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<tr>
<th>Box</th>
<th>Image Number</th>
<th>Description</th>
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</thead>
</table>
| 59:46 | 700-A-a-190 | **Big Meadows Dam of Great Western Power Company. 1917 July**  
Photographer: Adams, Frank  
Scope and Content Note: This is a hydraulic fill dam and has an impounding capacity of 300,000 acre-feet. The ultimate planned capacity with higher dam is 1,200,000 acre-feet. July, 1917. |
| 59:47 | 700-A-a-192 | **Power Company Dam across Merced River at Merced Falls. 1918 June 20**  
Photographer: Adams, Frank  
Scope and Content Note: |
| 59:48 | 700-A-a-193 | **Dam of San Joaquin and Kings River Canal and Irrigation Company across San Joaquin River south of Firebaugh. 1918 April 2**  
Photographer: Adams, Frank  
Scope and Content Note: At the extreme right of the picture near the pile driver, the railing indicates the bulge at the southeast end of the dam. This weakening of this structure has lead the company to prepare plans for a concrete dam across the river to be placed slightly below. |
| 59:49 | 700-A-a-194 | **Crocker-Huffman Dam Across Merced River below Snelling. 1918 June 20**  
Photographer: Adams, Frank  
Scope and Content Note: |
| 59:50 | 700-A-a-195 | **Sweetwater Dam, San Diego County. undated**  
Photographer:  
Scope and Content Note: Height of dam, 118 feet. Length of dam, 500 feet. Capacity of siphon spillway of six 6' x 12' Units, 16,000 cu. ft. per sec. Capacity of overflow spillways (center and south end of dam, 32,000 cu. ft. per sec). Total capacity of all spillways, 48,000 cu. ft. per second. Length of center overflow spillway, 236'. Length of south overflow spillway, 234'. Efficiency of siphon spillway figures at 70% under 36' head. |
| 59:51 | 700-A-a-200 | **Barrett dam site and temporary dam owned by city of San Diego, Calif. 1897? March**  
Photographer: Tait, C.E.  
Scope and Content Note: |
| 59:52 | 700-A-a-201 | **Brush dam across Cache Creek above Rumsey, Calif.; ruins of head of Clear Lake Water Works irrigating system. 1900**  
Photographer: Adams, Frank  
Scope and Content Note: |
| 59:53 | 700-A-a-202 | **Cache Creek Dam, (below Proctor's pump) put in temporarily late in the season when irrigation by pumping is undertaken, Calif. 1900**  
Photographer: Adams, Frank  
Scope and Content Note: |
| 59:54 | 700-A-a-203 | **Brush dam above Rumsey. Head of remains of old Clear Lake ditch; irrigating about 100 acres during the summer of 1900. Calif. 1900**  
Photographer: Adams, Frank  
Scope and Content Note: |
| Box 59:55 | 700-A-a-204 Old Clear Lake Dam, Calif. Heavy timber dam built across Cache Creek below the gorge leading from Capay valley by the Clear Creek Water Works. This was to have been the head of the most extensive irrigation works ever planned for Yolo County. 1900  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:56 | 700-A-a-205 Temporary dam on Cache Creek, Calif. and pumping machinery user by Messers. Morrin and Batey on their ranches, north side of Cache Creek above the Nelson bridge. The engine in sight is that owned by S.V. Searlett. 1900  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:57 | 700-A-a-206 Rock and Brush Check Dam, Constructed by Los Angeles County in Haines Canyon, California. undated  
Photographer: Tait, C.E.  
Scope and Content Note  
The double crest dissipates the force of the overflow. The dam is depressed where it will concentrate the overflow on the larger rock in the natural stream bed. |
| Box 59:58 | 700-A-a-207 Rock Check Dam, Constructed by Los Angeles County in Haines Canyon, in Experimental Work on Flood Control, California. undated  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:59 | 700-A-a-208 Check Dams Built by Los Angeles County in Haines Canyon, California. undated  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:60 | 700-A-a-209 Mill Creek Canyon, California. undated  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:61 | 700-A-a-210 Division and Control Gate on Ditch for Spreading Water on San Antonio Creek, California undated  
Photographer: Tait, C.E.  
Scope and Content Note  
This view shows the general character of the spreading ground. |
| Box 59:62 | 700-A-a-211 Mouth of San Antonio Canyon, California. undated  
Photographer: Tait, C.E.  
Scope and Content Note  
This picture shows damaged concrete diversion dam for spreading water. The view shows the reinforcing rods from which the concrete has been worn away by debris carried by stream. |
| Box 59:63 | 700-A-a-212 Construction of Rock Levee faced with Boulders, Enclosed by Wire Mesh, on San Antonio Creek, California. undated  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:64 | 700-A-a-213 | **Rock Levee on San Antonio Creek, California.** undated  
Photographer: Tait, C.E.  
Scope and Content Note  
The drift on the face of the levee shows the height at which the flood water stood. |
| Box 59:65 | 700-A-a-214 | **One of Many Check Dams in Ward Canyon, near Los Angeles, California undated**  
Photographer: Tait, C.E.  
Scope and Content Note  
This was built to prevent flood damage on a private estate. |
| Box 59:66 | 700-A-a-215 | **Cuyamaca Dam, San Diego County, California. 1908**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:67 | 700-A-a-216 | **Dye Canon reservoir dam, Los Angeles Aqueduct. 1912**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:68 | 700-A-a-217 | **New Eastwood Multiple Arch Dam, Below Old Bear Valley Dam, Crest of Latter Showing Above the Water Line, California. 1913**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:69 | 700-A-a-218 | **Escondido dam, San Diego County, Calif. From lower side. 1895 August**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:70 | 700-A-a-219 | **Escondido Rock Fill Dam, San Diego County, California. 1910**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:71 | 700-A-a-220 | **Folsom dam taken from top of waste gate at side, Calif. 1900 May**  
Photographer:  
Scope and Content Note |
| Box 59:72 | 700-A-a-221 | **Franklin Canyon Dam of the Los Angeles Aqueduct, Cal. 1914 April**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:73 | 700-A-a-222 | **Hemet dam, southern California. 1893 January**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:74 | 700-A-a-223 | **Laguna dam from California side of Colorado River. 1913 August**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:75 | 700-A-a-224 | **La Grange Dam at the head of Modesto and Turlock Canals. At left is shown concrete spill at head of Modesto Canal. Calif. undated**  
Photographer:  
Scope and Content Note |
Box 59:76  700-A-a-225 La Mesa dam, Cuyamaca Water Co., San Diego Co., Calif. 1908
Photographer: Tait, C.E.
Scope and Content Note

Box 59:77  700-A-a-226 La Mesa Dam, San Diego County, California. Since submerged by construction of multiple arch Eastwood Dam, 1917. 1915 October
Photographer: Tait, C.E.
Scope and Content Note
Constructed by the San Diego Flume Co., now Cuyamaca Water Company. This is a hydraulic fill.

Box 59:78  700-A-a-227 "Middle Dam" showing manner of laying logs, South Fork of Stanislaus River, Calif. undated
Photographer: 
Scope and Content Note

Box 59:79  700-A-a-228 Timber Crib Dam- Plank slope of “Middle Dam”, South Fork of Stanislaus River, Calif. 1908
Photographer: 
Scope and Content Note

Box 59:80  700-A-a-229 Debris gathered at Middle Dam on South Fork of Stanislaus River, Calif. 1908
Photographer: 
Scope and Content Note

Box 59:81  700-A-a-230 Old Mission Dam, San Diego River, California. 1914 March
Photographer: Tait, C.E.
Scope and Content Note

Box 59:82  700-A-a-231 Mockingbird dam, Gage Canal Co. Hydraulic fill with concrete core. 1915 September
Photographer: Tait, C.E.
Scope and Content Note

Box 59:83  700-A-a-232 Moore Dam, Calif. 1900
Photographer: Adams, Frank
Scope and Content Note

Box 59:84  700-A-a-233 Lower Otay dam, water at 60 ft. level, San Diego County, Calif. 1897 March
Photographer: Tait, C.E.
Scope and Content Note

Box 59:85  700-A-a-234 Lower Otay Dam, California. 1911 October
Photographer: Tait, C.E.
Scope and Content Note
Rockfill with steel core. Destroyed February 1916 by being overtopped - spillway inadequate.

Box 59:86  700-A-a-235 Site of Lower Otay Dam After Destruction, California. 1916 February
Photographer: Tait, C.E.
Scope and Content Note
Box 59:87 700-A-a-236 **Upper Otay Dam, California. 1911 October**
Photographer: Tait, C.E.
Scope and Content Note
Built of concrete with reinforcement of old street railway cable. This is not a "gravity" dam and for that reason has been much criticized by engineers.

Box 59:88 700-A-a-237 **Upper Otay Dam, California. 1911 October**
Photographer: Tait, C.E.
Scope and Content Note
This was built by the predecessor of the Southern California Mtn. Water Company (Spreckles Co.) now owned by San Diego City.

Box 59:89 700-A-a-238 **Upper Otay Dam, California. View taken from west end. 1911 October**
Photographer: Tait, C.E.
Scope and Content Note
This was built by E.S. Babcock of San Diego, without services of an engineer.

Box 59:90 700-A-a-239 **Remains of Pacoina submerged dam, San Fernando Valley near Los Angeles. 1915 February**
Photographer: Tait, C.E.
Scope and Content Note
See description in Schuyler's book.

Box 59:91 700-A-a-240 **Retaining dam on Lake Tahoe at mouth of Truckee, looking down river, Calif. 1900 October**
Photographer: Adams, Frank
Scope and Content Note

Box 59:92 700-A-a-241 **San Fernando Dam of the Los Angeles Aqueduct, Cal. 1915 February**
Photographer: Tait, C.E.
Scope and Content Note
The south or lower side of the dam has no concrete facing. The municipal supply line is shown in the left background.

Box 59:93 700-A-a-242 **San Fernando Dam of the Los Angeles Aqueduct, Cal. 1915 February**
Photographer: Tait, C.E.
Scope and Content Note
This picture was taken in the earlier days of construction and shows the building up of the hydraulic fill beyond the portion which was lined with concrete. On the right in the middle foreground is the tressle used in carrying the hydraulic discharge pipe from one side of the dam to the other. No each side of the dam is built up from one end to the other, continuously.

Box 59:94 700-A-a-243 **San Mateo dam from reservoir site, showing riprapping at ends, Calif. undated**
Photographer: C.T.J.
Scope and Content Note

Box 59:95 700-A-a-244 **San Mateo Dam from above, Calif. undated**
Photographer: C.T.J.
Scope and Content Note
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<tr>
<th>Box 59:97</th>
<th>700-A-a-246 Submerged Dam on Santiago Creek, California. undated</th>
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<td></td>
<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Original dam of stone masonry. First extension height only, and of concrete. Second extension of concrete, raised height and increased thickness from base up on downstream side.</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Picture taken after raising height of dam.</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Photographer: Adams, Frank</td>
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<td>Photographer: Adams, Frank</td>
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<td></td>
<td>This reservoir furnishes the main irrigation supply for Placer County fruit districts. This dam was built in 1912 and raised in 1916 to its present height of 260 feet. The structure has a crest length of 745 feet and a crest elevation of 4860 feet. The capacity of the reservoir is 63,900 acre feet; flood area 640 acres; catchment area 121 square miles and average snow depth of water shed 9 feet.</td>
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<td>Photographer: Adams, Frank</td>
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   Photographer: Adams, Frank
   Scope and Content Note

Box 59:107 700-A-a-257 **Stanford Vina Ranch Dam on Deer Creek, Butte County. 1918**
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:108 700-A-a-258 **Carroll Dam, San Diego County. This is an Eastwood type multiple arch dam in the canyon of the San Dieguito undated**
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   See No. 700-A-b-52

Box 59:109 700-A-a-259 **Big Meadows Dam of Great Western Power Company. Lake Almanor. undated**
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 59:110 700-A-a-260 **Magalia Dam of Paradise Irrigation District. 1920 August 26**
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 59:111 700-A-a-261 **Community Dam Across Butte Creek and Southern Pacific Bridge showing relative position of both structures. 1918**
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:112 700-A-a-262 **Diagonal Dam Across Butte Creek directly below Southern Pacific Bridge. 1918**
   Photographer: Adams, Frank
   Scope and Content Note
   Built by State Land Settlement Board in cooperation with Ditch owners on Butte Creek. Diagonal construction necessary because of (a) proximity of railroad bridge, and (b) lack of suitable material for a foundation and control of diversion on left bank directly opposite the most suitable ending on right bank.

Box 59:113 700-A-a-263 **Right or north end of Community Diversion Dam on Butte Creek above Durham State Land Settlement. 1918**
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:114 700-A-a-264 **Southern Pacific Railroad Bridge and Community Dam Across Butte Creek above Durham State Land Settlement. 1918**
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:115 700-A-a-265 **Hemet Dam, showing timber super-structure 1923 August**
   Photographer: Adams, Frank
   Scope and Content Note
| Box 59:116 | 700-A-a-266 **Hemet Dam and Hemet Lake undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:117 | 700-A-a-267 **Lake Hemet and dam 1923 August**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:118 | 700-A-a-268 **Murray multiple arch dam on system of Cuyamaca Water Company southeast of San Diego. 1923 About August**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:119 | 700-A-a-269 **South San Joaquin Oakdale dam and upper portion south San Joaquin canal. undated**  
Photographer:  
Scope and Content Note |
| Box 59:120 | 700-A-a-270 **Overpour south San Joaquin Oakdale dam. undated**  
Photographer:  
Scope and Content Note |
| Box 59:121 | 700-A-a-271 **Overpour, south San Joaquin Oakdale dam. undated**  
Photographer:  
Scope and Content Note |
| Box 59:122 | 700-A-a-272 **South San Joaquin Oakdale dam. undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:123 | 700-A-a-273 **Concrete dam across San Joaquin River at head of San Joaquin and Kings River canal. circa 1923**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:124 | 700-A-a-274 **Anderson-Cottonwood Irrigation District diversion dam in Sacramento River from below Redding. 1924 March 20**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:125 | 700-A-a-275 **Anderson-Cottonwood Irrigation District diversion dam in Sacramento River at Redding, March 20, 1924. 1924 March 20**  
Photographer: Adams, Frank  
Scope and Content Note  
Slide No. 654 |
| Box 59:126 | 700-A-a-276 **Little Rock multiple arch dam, built by Little Rock and Palmdale Irrigation Districts, Mojave Desert, Los Angeles County. Cost of dam about $85 per acre-foot of storage capacity. 1924 June 18**  
Photographer: Adams, Frank  
Scope and Content Note |
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| 59:127 | Box 59:127 700-A-a-277 **Upper face Palmdale-Littlerock Dam, shortly after completion 1924 June**  
Photographer: Adams, Frank  
Scope and Content Note  
Slide No. 657 |
| 59:128 | Box 59:128 700-A-a-278 **Spillway end of Palmdale-Littlerock Dam 1924 June 18**  
Photographer: Adams, Frank  
Scope and Content Note |
| 59:129 | Box 59:129 700-A-a-279 **Several Negatives: Palmdale-Littlerock Dam (from above). Shortly after completion, June 18, 1924. 1924 June**  
Photographer: Adams, Frank  
Scope and Content Note |
| 59:130 | Box 59:130 700-A-a-280 **Don Pedro Dam and Power House undated**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| 59:131 | Box 59:131 700-A-a-281 **Portion of steel lining of Lower Otay Dam, about ten miles below the site of the dam. Carried down by the flood at the time the dam broke. undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| 59:132 | Box 59:132 700-A-a-282 **Dam at Echo Lake, near summit of Placerville road. circa 1920**  
Photographer: Adams, Frank  
Scope and Content Note |
| 59:133 | Box 59:133 700-A-a-283 **Earth-filled dam of Silver Flat Reservoir near Hayden Hill, Lassen County. Built by the Juniper Irrigation Company at a cost of about $13,500. 1925 June 18**  
Photographer: Adams, Frank  
Scope and Content Note  
Built by the Juniper Irrigation Company at a cost of about $13,500. Crest length, 1,200 feet; bottom width, 30 ft.; top width, 5 feet; area at high water, 815 acres; capacity, 3,900 acre-feet. |
| 59:134 | Box 59:134 700-A-a-284 **Lookout Dam on Pit River near Lookout and head of Gooch Ditch on left, which is the highest diversion in Big Valley from Pit River. 1925 June 18**  
Photographer: Adams, Frank  
Scope and Content Note |
| 59:135 | Box 59:135 700-A-a-285 **Don Pedro Dam, Spillway, and Reservoir. View No. 1 1926 April 30**  
Photographer: Adams, Frank  
Scope and Content Note |
| 59:136 | Box 59:136 700-A-a-286 **Don Pedro Dam. View No. 2 1925 April 30**  
Photographer: Adams, Frank  
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Photographer: Adams, Frank  
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Box 59:138 700-A-a-288 Don Pedro Dam. View No. 1 1926 April 30
   Photographer: Adams, Frank
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Box 59:139 700-A-a-288a Don Pedro Dam, base and north end 1922
   Photographer: Adams, Frank
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   Photographer: Adams, Frank
   Scope and Content Note

Box 59:141 700-A-a-290 Lake Hodges Dam, San Diego County undated
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:142 700-A-a-291 Lake Hodges Dam, San Diego County. undated
   Photographer: Adams, Frank
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Box 59:143 700-A-a-292 Secondary diversion dam of the Anderson Cottonwood Irrig. District Redding, California. 1928 May 16
   Photographer: A.H.H.
   Scope and Content Note

Box 59:144 700-A-a-293 View of Melones Dam. This picture was taken from the top of the bluff near the power house. 1928 October 28
   Photographer: Huberty, Martin R.
   Scope and Content Note

Box 59:145 700-A-a-294 Melones Dam, 1928 1928 October 28
   Photographer: Huberty, Martin R.
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Box 59:146 700-A-a-295 Melones Dam 1928 October 28
   Photographer: Huberty, Martin R.
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Box 59:147 700-A-a-296 Melones Dam 1928 October 28
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Box 59:148 700-A-a-297 Melones Dam 1928 October 28
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Box 59:149 700-A-a-298 Melones Dam 1928 October 28
   Photographer: Huberty, Martin R.
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Box 59:150  700-A-a-299 **Melones Dam 1928**  
Photographer: Adams, Frank  
Scope and Content Note

Box 59:151  700-A-a-300 **Exchequer Dam 1928 October 28**  
Photographer: Huberty, Martin R.  
Scope and Content Note

Box 59:152  700-A-a-301 **Exchequer Dam 1928 October 28**  
Photographer: Huberty, Martin R.  
Scope and Content Note

Box 59:153  700-A-a-302 **Exchequer Dam 1928**  
Photographer: Adams, Frank  
Scope and Content Note

Box 59:154  700-A-a-303 **Don Pedro Dam 1928 October 28**  
Photographer: Huberty, Martin R.  
Scope and Content Note

Box 59:155  700-A-a-304 **Don Pedro Dam, 1928 1928 October 28**  
Photographer: Huberty, Martin R.  
Scope and Content Note

Box 59:156  700-A-a-305 **Don Pedro Dam. 1928**  
Photographer: Adams, Frank  
Scope and Content Note

Box 59:157  700-A-a-306 **Don Pedro Dam. 1928**  
Photographer: Adams, Frank  
Scope and Content Note  
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Box 59:158  700-A-a-307 **Exchequer Dam. 1928**  
Photographer: Adams, Frank  
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Box 59:159  700-A-a-308 **(2 views) Don Pedro Dam 1923 April 22**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note

Box 59:160  700-A-a-309 **Don Pedro Dam 1928**  
Photographer: Adams, Frank  
Scope and Content Note

Box 59:161  700-A-a-311 **(2 neg.) Van Giesen Diversion Dam, Bear River 1928 May 12**  
Photographer: Huberty, Martin R.  
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<td>LaGrange Dam on Tuolumne River showing division of Modesto Irrigation District. Turlock diverts through tunnel on right side. (not shown) 1929 August</td>
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<td>Photographer: Adams, Frank</td>
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<td>Photographer: Adams, Frank</td>
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<td>Photographer: Adams, Frank</td>
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<td>Photographer: Adams, Frank</td>
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<td>Photographer: Adams, Frank</td>
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   Photographer: Adams, Frank
   Scope and Content Note

Box 59:185 700-A-a-335 Memorial tablet at Exchequer dam 1928
   Photographer: Givan, C.V.
   Scope and Content Note

Box 59:186 700-A-a-336 Lake Hodges Dam, San Dieguito River 1932 March
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:187 700-A-a-337 Rockfill Dam, Shasta River, Mt. Shasta in background 1919
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:188 700-A-a-338 Dam, Juniper Water Company above Big Valley, Modoc County circa 1924-1925
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:189 700-A-a-339 Overflow Weir undated
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:190 700-A-a-340 Exchequer Dam and reservoir. 1929?
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:191 700-A-a-341 View of Boulder Dam taken from the power house. 1935 February 23
   Photographer: Adams, Frank
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Box 59:192 700-A-a-342 Boulder dam, downstream face. 1935 February 22
   Photographer: Adams, Frank
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Box 59:193 700-A-a-343 Downstream view of Boulder Dam showing concrete mixing plant on extreme left and Arizona spillway and "Chinese wall" on right. 1935 February 22
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:194 700-A-a-344 Downstream view of Boulder dam; Arizona intake towers on upper right. 1935 February 22
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:195 700-A-a-345 Downstream view of Boulder Dam, showing power house completed. 1935 February 23
   Photographer: Adams, Frank
   Scope and Content Note
Box 59:196 700-A-a-346 Boulder dam, general view, downstream face, showing observation point in foreground. 1935 February 22
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:197 700-A-a-347 Nevada side of top of Boulder Dam shortly before completion 1935 February 22
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:198 700-A-a-348 Nevada spillway, Boulder Dam 1935 February 22
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:199 700-A-a-349 Penstock pipe fabrication plant at Boulder dam site. 1935 February 22
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:200 700-A-a-350 Downstream view of Boulder Dam, showing power house under construction. 1935 February 22
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:201 700-A-a-351 Downstream view of Boulder dam; diversion tunnel and lower coffer dam in foreground. 1935 February 22
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:202 700-A-a-352 At Boulder Dam 1935 February 23
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 59:205 700-A-a-355 Gillespied dam, Gila River, Arizona. (2 views) 1926 or 1927
   Photographer: Adams, Frank
   Scope and Content Note

Box 59:206 700-A-a-356 Rodriguez Dam, Tia Juana River, Mexico. 1929
   Photographer: Adams, Frank
   Scope and Content Note
Box 59:207 700-A-a-357 Citrus Exp. Station, Riverside, California. 1936 August 29
    Photographer: Compton, O.C.
    Scope and Content Note
    Laguna dam, Colorado River, at intake of Yuma Canal, above Bard, Calif. Photograph taken on trip of Veihmeyer, Frank J., and O.C. Compton, to Imperial Valley. Debris lodged to downstream face of dam.

    Photographer:
    Scope and Content Note

Box 59:209 700-A-a-359 Cache Creek dam, outlet structure for Clear Lake, near Lower Lake, Calif. 9/3/37; Cache Creek Dam, outlet structure 9/3/37; Scott dam, Lake Pillsbury, Hullville, Calif. 9/2/37 1937 September
    Photographer: Brown, J.B. and Givan, C.G.
    Scope and Content Note
    For other photographs taken on same trip see 758-A-31

Box 59:210 700-A-a-360 Ten of the world's highest dams. (From Reclamation Era 28(5):98. May, 1938) 1938 May
    Photographer: Weston, E.W.
    Scope and Content Note
    Slide No. A-1265

Box 59:211 700-A-a-361 Exchequer dam 1928 October 28
    Photographer: Huberty, Martin R.
    Scope and Content Note

Box 59:212 700-A-a-362 Exchequer dam. 1928 October 28
    Photographer: Huberty, Martin R.
    Scope and Content Note

Box 59:213 700-A-a-363 Don Pedro dam. 1928?
    Photographer: Adams, Frank?
    Scope and Content Note

Box 59:214 700-A-a-364 Don Pedro dam. 1926?
    Photographer: Adams, Frank?
    Scope and Content Note

Box 59:215 700-A-a-365 Don Pedro dam. 1926?
    Photographer: Adams, Frank?
    Scope and Content Note

    Photographer: Veihmeyer, Frank J.
    Scope and Content Note
Box 59:217  700-A-a-367a 700-A-a-367b Diversion dam Clear Lake Water Co. To be sued as cite of new gaging station to be rated by U.S. Bureau Reclamation. 1939 December 5
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note
  (a) Looking west. (b) Looking north.

Box 59:218  700-A-a-368 Shasta Dam Looking West from Observation House. April 4, 1941 1941
  April 4
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 59:219  700-A-a-369 Shasta Dam. 1943 June 11
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 59:220  700-A-a Trip with 7 Chinese technicians visiting irrigation & drainage projects in Western States, Feb. 28 to Apr. 15, 1946. See 710-B-a-154-199. 1946 March
  Photographer: Brown, J.B.
  Scope and Content Note

Box 59:221  700-A-a-370 Barret Dam. San Diego, California 1948 November 11
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 59:222  700-A-a-371 Shasta Dam. 1951 April 10
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 59:223  700-A-a-371 Old Clear Lake Dam 1900
  Photographer: O.E.S. - I & D. Investigations Old Clear Lake Dam, Calif. Heavy timber dam across Cache Creek below the gorge leading from Capay Valley by the Clear Creek water works. This was to have been the head of the most extensive irrigation works ever planned for Yolo County.

Box 59:224  700-A-a-372 O.E.S.-I+D Investigations; Moore Dam, Calif. 1900
  Photographer: Adams, Frank
  Scope and Content Note

Box 59:225  700-A-a-373 Flash brand dam undated
  Photographer: Scope and Content Note

Box 59:226  700-A-a-373 Dam on Truckee River, Calif. 1900
  Photographer: Adams, Frank
  Scope and Content Note

Box 59:227  700-A-a-374 Untitled undated
  Photographer: Scope and Content Note
| Box 59:228 | 700-A-a-375 Multiple arch diversion dam undated |
| Box 59:229 | 700-A-a-376 Multiple arch diversion dam undated |
| Box 59:230 | 700-A-a-377 Untitled undated |
| Box 59:231 | 700-A-a-378 Lakehurst Storage Dam - S. Africa. Lamday's River, Cape Provence 1930 |
| Box 59:232 | 700-A-a-379 Untitled undated |
| Box 59:233 | 700-A-a-380 Straw dam - Cache Creek, Head of Adams ditch 1900 |
| Box 59:234 | 700-A-a-381 Concrete dam - Merced River 1912 |
| Box 59:235 | 700-A-b-49 Hydraulicking Hillside Below Dam at West End, San Fernando Dam, Los Angeles Aqueduct, California 1915 December 21 |
| Box 59:236 | 700-A-b-50 Sluicing and Pumping Equipment, Lower Side and West End of San Fernando Dam, Los Angeles Aqueduct, California. 1915 December 21 |
| Box 59:237 | 700-A-a-51 Depositing Hydraulicked Materials from 12-inch Pipe on Lower Side of San Fernando Dam, Los Angeles Aqueduct, California 1915 December 21 |

The last length of this pipe, as shown in the picture, has holes about 2x4 to 6 inches in dimension for permitting the deposit of the larger particles before the main volume of water is discharged at the outlet. This gives the finer particles greater opportunity to be carried to the center of the dam. All material was deposited just inside each rim wall. The heavier particles are thus left on the outside and the “fines” are washed to the center to form the only core-wall provided.
<table>
<thead>
<tr>
<th>Box 59:238</th>
<th>700-A-b-52 Construction of Eastwood Type Multiple Arch Caroll Dam in Canyon of San Dieguito, San Diego County for San Dieguito Mutual Water Company on proposed irrigation district. 1917 November</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>This picture is taken to show the butt of the piers at the lower ends; also to give near view of pouring concrete. Note panel forms and ends of buttresses.</td>
<td></td>
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<table>
<thead>
<tr>
<th>Box 59:239</th>
<th>700-A-b-53 Another view of construction of Caroll Multiple Arch Dam in San Dieguito River, San Diego County. 1917 November</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Note foot of tour in the center distance from which concrete is poured; also note panel forms for edges.</td>
<td></td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Box 59:240</th>
<th>700-A-b-54 Alpine Dam of Marin Municipal Water District under construction as visited May 2, 1918. 1918 May 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Estimated cost, including clearing, $250,000. Completion of this dam to a height of 100 ft. will increase the water supply of the district by about 3 million gallons daily and to its ultimate height of 175 ft. to a total of between 10 and 15 million gallons daily.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 59:241</th>
<th>700-A-b-55 Murray Dam under construction. San Diego County. undated</th>
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</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
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<tr>
<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 59:242</th>
<th>700-A-a-56 San Fernando dam during construction. Earthfilled (hydraulic filled) dam. Los Angeles water system. 1916</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Veihmeyer, Frank J.</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 59:243</th>
<th>700-A-b-60 New Bear Valley Dam under construction, lower side. Multiple arch with buttresses. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Tait, C.E.</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 59:244</th>
<th>700-A-b-61 Escondido dam, San Diego County, Calif. Under construction. 1895 February</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Tait, C.E.</td>
<td></td>
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<tr>
<td>Scope and Content Note</td>
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</table>

<table>
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<tr>
<th>Box 59:245</th>
<th>700-A-b-62 Franklin Canyon Dam of the Los Angeles Aqueduct, Cal. 1915 April</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Tait, C.E.</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>This is a hydraulic fill dam constructed at a cost of 20 cents per cubic yard. In the foreground is the concrete gate tower.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 59:246</th>
<th>700-A-b-63 Haiwee hydraulic fill dam under construction, Los Angeles Aqueduct. 1911</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Tait, C.E.</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Box 59:247</td>
<td>700-A-b-64 The &quot;Hinds&quot; dam which turned the Colorado River. View from top of pile driver looking north. 1906 November</td>
</tr>
<tr>
<td>Box 59:248</td>
<td>700-A-b-65 Hydraulic fill dam, Mockingbird Canon, Gage Canal Company. 1913 September</td>
</tr>
<tr>
<td>Box 59:249</td>
<td>700-A-b-66 Hydraulic Fill Dam, Silver Lakes Reservoir, Los Angeles, Calif. 1907</td>
</tr>
<tr>
<td>Box 59:250</td>
<td>700-A-b-67 Laguna Dam from California side. Excavations in foreground were filled with water by flood and are being pumped out. Channel Colorado River in distance. 1906 August</td>
</tr>
<tr>
<td>Box 59:251</td>
<td>700-A-b-68 Morena dam, San Diego County, Calif, under construction. View from north end. 1911 October</td>
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<tr>
<td>Box 59:252</td>
<td>700-A-b-69 Morena dam, San Diego County, Calif., under construction. Upper side. 1911 October</td>
</tr>
<tr>
<td>Box 59:253</td>
<td>700-A-b-70 Morena dam, San Diego County, Calif., under construction, lower side. 1911 October</td>
</tr>
<tr>
<td>Box 59:254</td>
<td>700-A-b-71 Monitor throwing stream from #5 centrifugal pump (approximately 1 1/2 sec. ft.) under 60&quot; pressure. Peasly Gulch hydraulic fill, Turlock Main Canal., Calif. undated</td>
</tr>
<tr>
<td>Box 59:255</td>
<td>700-A-b-72 San Fernando Dam of the Los Angeles Aqueduct, Cal. 1915 December 2</td>
</tr>
<tr>
<td>Box 59:256</td>
<td>700-A-b-73 San Fernando Dam of the Los Angeles Aqueduct, Cal. 1915 December 2</td>
</tr>
<tr>
<td>Box 59:257</td>
<td>700-A-b-74 San Fernando Dam of the Los Angeles Aqueduct, Cal. undated</td>
</tr>
</tbody>
</table>
Box 59:258 700-A-b-75 **San Fernando Dam of the Los Angeles Aqueduct, Cal. 1915 December 2**  
Photographer: Tait, C.E.  
Scope and Content Note  
On the left, in the background is the pipe which is the main trunk line of the Los Angeles municipal supply.

Box 59:259 700-A-b-76 **San Fernando Dam of the Lost Angeles Aqueduct, Cal. 1915 December 2**  
Photographer: Tait, C.E.  
Scope and Content Note  
This picture shows the spillway from the aqueduct in the background and also the pipe line from the division box to the west or left-hand tower. In the immediate foreground is a 14 in. steel pipe to convey the hydraulic material used in building up the north side of the dam. the discharge pipe for delivering the materials on the north side of the dam which is built up as the work progresses, in shown on the left.

Box 59:260 700-A-b-77 **San Fernando Dam of the Los Angeles Aqueduct, Cal. 1915 February**  
Photographer: Tait, C.E.  
Scope and Content Note

Box 59:261 700-A-b-78 **San Fernando Dam of the Los Angeles Aqueduct, Cal. 1915 December 2**  
Photographer: Tait, C.E.  
Scope and Content Note

Box 59:262 700-A-b-79 **Closing the by pass after destruction of Rockwood gate at Mexican intake of C.D.Co. Colorado River. View shows the two lower trestles at left and dam across by-pass at right. 1906 November**  
Photographer: Tait, C.E.  
Scope and Content Note

Box 59:263 700-A-b-80 **Meselbeck Hydraulic Filled Dam on Happy Valley Irrigation District. 1919 October 31**  
Photographer: Adams, Frank  
Scope and Content Note  
Under construction October 31, 1919. This dam will have a completed height of 100 feet with an estimated yardage of 280,000 cubic yards; including auxiliary dam contract price of $325,000 with some allowance. Cost to October 1, 1919 about $.60 per cubic yard; estimated cost completed $.45 per cubic yard. Up stream face of dam to be paved with gunite. Original sub-contract price of gunite including $.02 for chicken wire $.15 per square foot. Sub-contractor failed and principal contractor expected to complete the work at cost of $.09 per square foot. Thickness of gunite 2 inches; weep poles divided in gunite every 5 feet each way and to be carried up about one-half the height of the dam. Gunnite paving proportioned 1-3.

Box 59:264 700-A-b-81 **Second View of Meselbeck Dam, Happy Valley Irrigation District. 1919 October 31**  
Photographer: Adams, Frank  
Scope and Content Note

Box 59:265 700-A-b-82 **Fourth View of Meselbeck Dam, Happy Valley Irrigation District. 1919 October 31**  
Photographer: Adams, Frank  
Scope and Content Note  
Showing near view flumes, and spreading material.
Box 59:266  700-A-b-83 Third View of Meselbeck Dam, Happy Valley Irrigation District. 1919 October 31
    Photographer: Adams, Frank
    Scope and Content Note
    Showing source of material and hydraulic giant at work.

Box 59:267  No neg Misselbeck Dam, Happy Valley Irrigation District 1920
    Photographer: Stafford
    Scope and Content Note

Box 59:268  No neg Guniting Misselbeck Dam, Happy Valley Irrigation District. 1920
    Photographer: Stafford
    Scope and Content Note

Box 59:269  No neg Guniting upper face, Misselback Dam, Happy Valley Irrigation District 1920
    Photographer: Stafford
    Scope and Content Note

Box 59:270  No neg Guniting Misselbeck Dam, Happy Valley Irrigation District. 1920
    Photographer: Stafford
    Scope and Content Note

Box 59:271  No neg North Portal, Misselbeck Tunnel, Happy Valley Irrigation District. 1920
    Photographer: Stafford
    Scope and Content Note

Box 59:272  700-A-b-84 Detailed View of Gate in Metal Lined Flumes Used in Constructing Meselbeck Dam, Happy Valley Irrigation District. 1919 October 31
    Photographer: Adams, Frank
    Scope and Content Note
    These gates are at frequent intervals in the flumes and thus permit the deposit of material at any point desired.

Box 59:273  700-A-b-85 Hydraulic Giant at Work on Material for Meselbeck Dam, Happy Valley Irrigation District. 1919 October 31
    Photographer: Adams, Frank
    Scope and Content Note

Box 59:274  700-A-b-86 Second View of Diversion Dam Above Hoover Tunnel. undated
    Photographer: Adams, Frank
    Scope and Content Note

Box 59:275  700-A-b-87 Diversion Dam Under Construction Above Hoover Tunnel, Happy Valley Irrigation District. undated
    Photographer: Adams, Frank
    Scope and Content Note
    Height above stream 40 feet; base thickness 5 feet; top thickness exclusive of lip 2 feet; base length 25 feet; top length 85 feet; radius of dam varying every 10 feet from 40 feet at base to 60 feet at top.
Box 59:276  700-A-b-88  Lower Otay Dam 1919 January
Photographer: Veihmeyer, Frank J.
Scope and Content Note
Reconstruction of old dam destroyed by flood Jan. 27, 1916. Overtopped with flood water-wasteway too small. Took about 15 or 20 minutes for practically the entire dam to be taken away after being overtopped. The crest of the flood reached Otay, nine miles downstream in 45 minutes. Upper portion of lower fill soon sank when dam overtopped and a few minutes later another lower section was taken out after which the core wall broke open - when the gorge was quickly cleared out. Shows steel core wall of old dam.

Box 59:277  700-A-b-89  Anderson-Cottonwood Irrigation District Dam across Sacramento River under construction. Pumps removing water from Coffer Dam. undated
Photographer: Adams, Frank
Scope and Content Note

Box 59:278  700-A-b-90  Lower end of upper Klamath Lake and head of Link River. 1920 September
Photographer: Adams, Frank
Scope and Content Note
Temporary dam put in by the power company is shown at the head of the river. Beginning of construction of new dam shown on the right. Headgate of Keeno Power canal in the lower right corner.

Box 59:279  700-A-b-91  Exchequer Dam nearing completion. 1926 April 30
Photographer: Adams, Frank
Scope and Content Note

Box 59:280  700-A-b-92  Dwinnell Hydraulic fill. Dam under construction, showing Lake Dwinnell Reservoir at the right. Montague Water Conservation District. Siskiyou County 1928 July 24
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 59:281  700-A-b-93  Dwinnell hydraulic fill dam under construction. Montague Water Conservation District, Siskiyou County. 1928 July 24
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 59:283  700-A-b-95  Incompleted dam of the Eldorado Irrigation District. 1928 November 4
Photographer: Huberty, Martin R.
Scope and Content Note

Box 59:284  700-A-b-96  Construction of Tieton Dam, on Yakima and Tieton Project, U.S. Reclamation Service, Washington, August, 1922. 1922 August
Photographer: Veihmeyer, Frank J.
Scope and Content Note
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 59:286 | 700-A-b-98 Construction of Rimrock Dam, Tieton Project, near Yakima, Wash. 1922  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 59:287 | 700-A-b-99 Boulder Dam views. (a) General view looking upstream. Water being diverted past dam site. (b) Concrete mixing plant near the top of canyon on the Nevada side. 1933 April 30  
Photographer: Huberty, Martin R.  
Scope and Content Note |
| Box 59:288 | 700-A-b-100 Construction of Boulder Dam. Excavation in the river channel nearing completion. Note narrow, deep channel in center of picture. 1933 April 30  
Photographer: Huberty, Martin R.  
Scope and Content Note |
| Box 59:289 | 700-A-b-101 (3 views) Views of Stony Gorge Dam under construction 1928 June 24  
Photographer: JEC  
Scope and Content Note |
| Box 59:290 | 700-A-b-103 Looking north across Don Pedro Dam, Nov. 19, 1922 1922  
Photographer: Adams, Frank  
Scope and Content Note |
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:292 | 700-A-b-105 Don Pedro Dam under construction 1922  
Photographer: Huberty, Martin R.  
Scope and Content Note |
| Box 59:293 | 700-A-b-106 Stevens Creek Dam under Construction, Santa Clara Valley, W. Conservation District. Used in center panel as transparency, Irrigation Exhibit 1940 only, Golden Gate International Exposition, San Francisco. 1935 October 30  
Photographer: Adams, Frank  
Scope and Content Note |
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:295 | 700-A-b-108 Guadalupe Dam under construction, Santa Clara Valley W. Conservation District. 1935 October 30  
Photographer: Adams, Frank  
Scope and Content Note |
Box 59:296 700-A-b-109 **Upstream face, Calero Dam, Santa Clara Valley, W. Conservation District.**

1935 October 31

Photographer: Adams, Frank

Scope and Content Note

Box 59:297 700-A-b-110 **Coyote Dam under construction, Santa Clara Valley, W. Conservation District. Looking from spillway end. 1935 October 31**

Photographer: Adams, Frank

Scope and Content Note

Box 59:298 700-A-b-111 **Coyote Dam under construction, Santa Clara Valley, W. Conservation District. Looking toward spillway end. 1935 October 31**

Photographer: Adams, Frank

Scope and Content Note

Box 59:299 700-A-b-112 **Across Shasta Dam site from east to west. Contractor's conveying system for sand and gravel shown leading to mixing plant under tower. Lower portion of east abutment of dam shown below. 1940 October 3**

Photographer: Adams, Frank

Scope and Content Note

Box 59:300 700-A-b-113 **Construction tower, contractor's conveying system, westerly portion of cleared site for Shasta Dam, and visitors' observation house from road on east side above dam site. 1940 October 3**

Photographer: Adams, Frank

Scope and Content Note

Box 59:301 700-A-b-114 **Down Sacramento River from construction tower, Shasta Dam. Contractor's settlement in left distance. Sand and gravel conveying system leading from gravel pit shown as line on the upper right. 1940 October 3**

Photographer: Adams, Frank

Scope and Content Note

Box 59:302 700-A-b-115 **Continuation to the west of picture 700-A-b-114. Sand and gravel conveying system crossing Sacramento River on left center. Contractor's conveying system shown leading from gravel dump. 1940 October 3**

Photographer: Adams, Frank

Scope and Content Note

Box 59:303 700-A-b-116 **Easterly from construction tower, Shasta Dam, showing constructed portion of east abutment in lower foreground with cleared site of dam above. Visitors' observation house in left center. 1940 October 3**

Photographer: Adams, Frank

Scope and Content Note

Box 59:304 700-A-b-117 **Looking easterly from construction tower, Shasta Dam. 1940 October 3**

Photographer: Adams, Frank

Scope and Content Note

Box 59:305 700-A-b-118 **Looking easterly from construction tower, Shasta Dam. 1940 October 3**

Photographer: Adams, Frank

Scope and Content Note
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<tr>
<th>Box</th>
<th>Image Number</th>
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<th>Date</th>
<th>Photographer</th>
<th>Scope and Content Note</th>
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<tr>
<td>59:306</td>
<td>700-A-b-119</td>
<td><strong>Looking down from construction tower on completed portion of Shasta Dam.</strong></td>
<td>1940 October 3</td>
<td>Adams, Frank</td>
<td></td>
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<tr>
<td>59:307</td>
<td>700-A-b-120</td>
<td><strong>Close-up view of completed portion of Shasta Dam. Visitors’ observation house in upper left.</strong></td>
<td>1940 October 3</td>
<td>Adams, Frank</td>
<td></td>
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<tr>
<td>59:308</td>
<td>700-A-b-121</td>
<td><strong>Members of Central Valley-Central Coast Drainage Basin Committee observing Shasta Dam from top of construction tower.</strong></td>
<td>1940 October 3</td>
<td>Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>59:309</td>
<td>700-A-b-122</td>
<td><strong>E.I. Kotok, Construction Engineer Lowry, and State Engineer Hyatt on top of construction tower, Shasta Dam. Erosion of adjacent hills in the distance.</strong></td>
<td>1940 October 3</td>
<td>Adams, Frank</td>
<td></td>
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<tr>
<td>59:310</td>
<td>700-A-b-123</td>
<td><strong>Pit River bridge. Construction of new highway and railroad bridge across Shasta Reservoir.</strong></td>
<td>1940 October 3</td>
<td>Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>59:311</td>
<td>700-A-b-124</td>
<td><strong>Present highway bridge across Pit River just below junction of McCloud and Pit rivers to be submerged by Shasta Dam.</strong></td>
<td>1940 October 3</td>
<td>Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Box</td>
<td>Image Number</td>
<td>Description</td>
<td>Date</td>
<td>Photographer</td>
<td>Notes</td>
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<tr>
<td>59:320</td>
<td>700-A-d-1</td>
<td>Core wall of Mockingbird Canon dam, near Riverside, Calif. 1913</td>
<td></td>
<td>Tait, C.E.</td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>59:321</td>
<td>700-A-e-1</td>
<td>Rip-Rap Along Cache Creek, to Protect Adams Canal Diverting From Capay Dam, California. 1914 November 27</td>
<td></td>
<td>Hutchins, Wells A.</td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The rip-rap shown in this picture was damaged to the extent indicated by the winter floods of 1913-1914. This view and the one shown in Picture No. 700-B-a-58 constitute a panorama.</td>
<td></td>
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<tr>
<td>59:322</td>
<td>700-A-f-1</td>
<td>Devils Head Dam Site on Putah Creek. 1920 May</td>
<td></td>
<td>Adams, Frank</td>
<td>Scope and Content Note</td>
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<tr>
<td>59:323</td>
<td>700-A-f-2</td>
<td>Devils Head Dam Site on Putah Creek. 1920 May</td>
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<td>Adams, Frank</td>
<td>Scope and Content Note</td>
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<tr>
<td>59:324</td>
<td>700-A-f-3</td>
<td>Devils Gate Dam Site on Putah Creek. 1920 May</td>
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<td>Adams, Frank</td>
<td>Scope and Content Note</td>
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<tr>
<td>59:325</td>
<td>700-A-f-4</td>
<td>Looking across San Joaquin River at Millerton Dam Site. 1920 January</td>
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<td>Adams, Frank</td>
<td>Scope and Content Note</td>
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<tr>
<td>59:326</td>
<td>700-A-f-5</td>
<td>River Channel at Millerton Dam Site on San Joaquin River. 1920 January</td>
<td></td>
<td>Adams, Frank</td>
<td>Scope and Content Note</td>
</tr>
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</table>
Box 59:327  700-A-f-6 Ward or Three Rivers Dam site on Kawesh River. August, 1917. 1917 August
Photographer: Adams, Frank
Scope and Content Note
G. B. Surgeon estimates that dam 300 ft high will store 300,000 of.

Box 59:328  700-A-f-7 Proposed dam site on Pitt River seven miles above Lookout. 1920 September
Photographer: Adams, Frank
Scope and Content Note

Box 59:329  700-A-f-8 Canyon of Pitt River directly below bridge at Fall River Mills looking south. 1920 September
Photographer: Adams, Frank
Scope and Content Note
Suggested dam site for Fall River storage at narrowest point shown in the picture.

Box 59:330  700-A-f-9 Proposed Dam Site on Burns Creek southeast of Merced. 1918 April 1
Photographer: Adams, Frank
Scope and Content Note
This is one of the possible foothill sites of the proposed Merced Irrigation District.

Box 59:331  700-A-f-10 Site for Proposed Reservoir of the Big Rock Creek Irrigation District on Big Rock Creek, Above the Junction of Rock and Pallett Creeks, Cal. 1915 June 30
Photographer: Hutchins, Wells A.
Scope and Content Note
This reservoir is reported to have a capacity of about 7,500 acre feet. The impounding dam will be built by the colonists in the Llano del Rio Cooperative Colony which controls the present Big Rock Creek Irrigation District.

Box 59:332  700-A-f-11 Dam Site La Mesa Lemon Grove & Spring Valley Irrigation District, San Diego River, California. 1914 March
Photographer: Tait, C.E.
Scope and Content Note

Box 59:333  700-A-f-12 Pine Flat dam site on Kings River circa 1915
Photographer: Adams, Frank
Scope and Content Note

Box 59:334  700-A-f-13 Site proposed for flood-water dam on Whitewater River, above Coachella Valley, January, 1919. 1919 January
Photographer: Adams, Frank
Scope and Content Note

Box 59:335  700-A-f-14 Currier dam site - Arroyo Seco. West from Salinas Valley. 1920 September 22
Photographer: Adams, Frank
Scope and Content Note

Box 59:336  700-A-f-15 Dam site in Railroad canyon, near Elsinore about 1920. 1920
Photographer: Adams, Frank
Scope and Content Note
Box 59:337  700-A-f-16  *Arroyo Seco dam site. 1918*
  Photographer: Adams, Frank
  Scope and Content Note

Box 59:338  700-A-f-17  *Basin above Devils Head dam site 1920*
  Photographer: Adams, Frank
  Scope and Content Note

Box 59:339  700-A-f-18  *Columbia River at proposed dam site for Columbia River Basin Project, Washington. Ferry at edge of left bank is approximately at Dam site. 1932*
  Photographer: Adams, Frank
  Scope and Content Note

Box 59:340  700-A-f-19  *Looking up Columbia River near location of proposed Columbia River Dam of Columbia River Basin Project. 1932*
  Photographer: Adams, Frank
  Scope and Content Note

Box 59:341  700-A-f-20  *Columbia near location of proposed Columbia River Dam of Columbia River Basin Project. 1932*
  Photographer: Adams, Frank
  Scope and Content Note

Box 59:342  700-A-f-21  *View of Boulder City at Boulder Dam site 1933?*
  Photographer: Adams, Frank
  Scope and Content Note

Box 59:343  700-A-f-22  *Boulder canyon at dam site 1932 April*
  Photographer: Adams, Frank
  Scope and Content Note

Box 59:344  700-A-f-23  *Boulder canyon at dam site 1932 April*
  Photographer: Adams, Frank
  Scope and Content Note

Box 59:345  700-A-f-24  *Boulder canyon at dam site 1932 April*
  Photographer: Adams, Frank
  Scope and Content Note

Box 59:346  700-A-f-25  *Boulder canyon at dam site 1932 April*
  Photographer: Adams, Frank
  Scope and Content Note

Box 59:347  700-A-f-26  *Boulder canyon and dam site 1932 April*
  Photographer: Adams, Frank
  Scope and Content Note

Box 59:378  700-A-f-27  *Looking up Colorado River above Boulder dam, near Boulder City 1932*
  Photographer: Adams, Frank
  Scope and Content Note
| Box 59:349 | 700-A-f-28 Looking out of one of main tunnels, Boulder dam 1932 April  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:350 | 700-A-f-29 College of Agriculture party at mouth of one of the main tunnels at Boulder dam 1932 April  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:351 | 700-A-f-30 College of Agriculture party at Lookout Point, Boulder canyon. 1932 April  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:352 | 700-A-f-31 College of Agriculture party at Boulder dam, Walker Young and L.D. Bachelor in center. 1932 April  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:353 | 700-A-f-32 Construction bridge across Colorado River at Boulder canyon 1932 April  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:354 | 700-A-f-33 Operating skip, Boulder canyon, Boulder dam site 1932 April  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:355 | 700-B-a-42 Radial Gate at Head of Turlock Canal, Turlock Irrigation District, Cal. 1915 July 31  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This gate is placed at the mouth of the tunnel which goes through the hillside at the south end of La Grange Dam. On the left is the head of the spillway. |
| Box 59:356 | 700-B-a-43 Back of Radial Gates, Winters Canal, Yolo Water and Power Co., Yolo County, Cal. (For description see Picture No. 44) 1914 November 27  
Photographer: Hutchins, Wells A.  
Scope and Content Note |
| Box 59:357 | 700-B-a-44 Radial Gates on Winters Canal, Yolo Water and Power Co., Cal. 1914 November 27  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
These gates are placed at the ends of the concrete lined section of Winters Canal where Madison Canal branches from Winters Canal. Madison Canal supplies lands in the neighborhood of Madison and east for a short distance along the south side of Cache Creek. |
| Box 59:358 | 700-B-a-45 Headgate, Little Rock Creek Irrigation District, California. 1915 June 29  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This is where the canal takes out of the Little Rock Creek. When the water supply in the creek falls short, the District pumps from a cienaga in the creek. |
Box 59:359  700-B-a-46 **Headgate of Winters Canal, Yolo Water and Power Co., Cal. 1914 November 27**  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This shows the water wheel used to operate the fish screen placed in the head of this canal. The Winters Canal heads at Capay Dam.

Box 59:360  700-B-a-47 **Headgate, West Main Ditch, Big Rock Creek Irrigation District, Cal. 1915 June 30**  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This diversion is also from Big Rock Creek at a point farther down the creek from the Diversion into the East Main Ditch.

Box 59:361  700-B-a-48 **Head Works of Sutter-Butte Canal, California. undated**  
Photographer: Adams, Frank  
Scope and Content Note  
This structure was designed by and constructed under the direction of Milo B. Williams, of this Office, about 1907. The building resting on the structure was used as a kitchen and mess quarters for employees engaged in the maintenance of the system.

Box 59:362  700-B-a-49 **Heading, Central Irrigation District, Nebraska. 1916 December 6**  
Photographer: Hutchins, Wells A.  
Scope and Content Note

Box 59:363  700-B-a-49a **Headworks, Consolidated Canal Company, Fresno County, California. 1916 June**  
Photographer: Robertson, Ralph D.  
Scope and Content Note

Box 59:364  700-B-a-50 **Headgate and Diversion Weir of Moore Dam, Yolo Water and Power Company, Cache Creek, California. 1914 August 23**  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This dam was installed in the fall of 1903 at a total cost of $11,000.

Box 59:365  700-B-a-50a **Dam, Waste-Gate, and Headgate, on North Platte River, Central Irrigation District, Nebraska. 1916 December 6**  
Photographer: Hutchins, Wells A.  
Scope and Content Note

Box 59:366  700-B-a-51 **Typical Headgate, Patterson, California. 1916 May**  
Photographer: Robertson, Ralph D.  
Scope and Content Note

Box 59:367  700-B-a-52 **Bracing for Collapsible Flood Gate in Great Western Canal, west of Nelson, California. undated**  
Photographer:  
Scope and Content Note
Box 59:368  700-B-a-52a **Heading of Canal of Browns Creek Irrigation District, on North Platte River, Nebraska. 1916 December 3**
Photographer: Hutchins, Wells A.
Scope and Content Note
The canal and headgate are shown on the left and just to the right is the wasteway into the main channel of the river.

Box 59:369  700-B-a-53 **Headgate, Browns Creek Irrigation District, Nebraska. 1916 December 3**
Photographer: Hutchins, Wells A.
Scope and Content Note
On the left is shown the waste-way back to the main channel of the river.

Box 59:370  700-B-a-54 **Headgate, Browns Creek Irrigation District, Nebraska. 1916 December 3**
Photographer: Hutchins, Wells A.
Scope and Content Note

Box 59:371  700-B-a-55 **Concrete Headgate, Settlers Irrigation District, Idaho. 1916 December 25**
Photographer: Hutchins, Wells A.
Scope and Content Note

Box 59:372  700-B-a-56 **Headgate, Idaho Canal, Idaho Irrigation District, Idaho. 1916 December 16**
Photographer: Hutchins, Wells A.
Scope and Content Note
Same as Picture No. 57.

Box 59:373  700-B-a-57 **Headgate, Idaho Canal, Idaho Irrigation District, Idaho. 1916 December 16**
Photographer: Hutchins, Wells A.
Scope and Content Note
This is a masonry structure. The Idaho and New Sweden Irrigation Districts have a common dam across Snake River at this point, the New Sweden District diverting water on the northwest side of the river and the Idaho District on the southeast side. It is likely that this gate will be replaced sooner or later with a concrete structure fitted with modern steel gates.

Box 59:374  700-B-a-58 **Headgate of Adams Canal, Yolo Water and Power Company, Yolo County, California. 1914 November 27**
Photographer: Hutchins, Wells A.
Scope and Content Note
This picture shows also the north end of the Capay Diversion Dam. The Adams Canal takes out from this headgate on the north side of Cache Creek and at the other end of the dam on the south side of the creek, the Winter's Canal diverts. This view and the one shown in Picture No. 700-A-e-1 constitute a panorama.

Box 59:375  700-B-a-59 **Panorama of Regulating Gate, Outlet of Cache Creek, Yolo Water & Power Company, California. 1914**
Photographer: J.T.K.
Scope and Content Note

Box 59:376  700-B-a-60 **Panorama of Regulating Gate, Outlet of Cache Creek, Yolo Water & Power Company, California. 1914**
Photographer: J.T.K.
Scope and Content Note
Box 59:377
700-B-a-61 **Intake of Supply Canal for East Park Reservoir, Orland Project, California.**
1914
Photographer: J.T.K.

Scope and Content Note

Box 59:378
700-B-a-62 **Concrete spill and crossing, Alta Irrigation District canal (Plate X, Fig. 1, Calif. State Dept. of Engineering Bulletin 2) undated**
Photographer: 

Scope and Content Note

Box 59:379
700-B-a-63 **Headgate of Snake River Valley Irrigation District, on Snake River, Idaho. undated**
Photographer: Hutchins, Wells A.

Scope and Content Note
This is a good concrete structure with radial gates as shown. This print is from a negative loaned by Mr. W. O. Cotton, Manager of the Idaho Irrigation District.

Box 59:380
700-B-a-64 **Headgate of Snake River Valley Irrigation District, Idaho. undated**
Photographer: Hutchins, Wells A.

Scope and Content Note
This print is from a negative loaned by Mr. W. O. Cotton, Manager of the Idaho Irrigation District.

Box 59:381
700-B-a-65 **Head gate on south San Joaquin canal showing Goodwin Dam at left. undated**
Photographer: 

Scope and Content Note

Box 59:382
700-B-a-66 **Headgate, Imperial Northside Water Company on Alamo River, near Calipatria, California. 1917 May 30**
Photographer: Hutchins, Wells A.

Scope and Content Note

Box 59:383
700-B-a-67 **Automatic Regulating Gate Installed by A. J. Salisbury, Jr., Water Company No.3, Imperial Valley, California, 1917. 1917 May 31**
Photographer: Hutchins, Wells A.

Scope and Content Note
This gate is very similar in principal to the automatic register gate patented by Mr. Meikle and used in Turlock Irrigation District, although the two designs were worked out independently.

Box 59:384
700-B-a-68 **Old Headgate of Lake Land Canal above headgate of People's Ditch on Kings River. 1917 August**
Photographer: Adams, Frank

Scope and Content Note
This was built in 1903 and will have to be replaced before the canal is operated.

Box 59:385
700-B-a-69 **Headgate Lemoore Canal and Irrigation Company on Kings River. August, 1917. 1917 August**
Photographer: Adams, Frank

Scope and Content Note
| Box 59:386 | 700-B-a-70 Headgate of Crescent Canal, Kings River. August, 1917 1917 August  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:387 | 700-B-a-71 Headgate of Consolidated Canal on Kings River. Water wheel in center furnishes power for operating the gates. August, 1917. 1917 August  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:388 | 700-B-a-72 Headgate of People's Ditch Company on Kings River. Upper. 1917 August  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:389 | 700-B-a-73 Headgate of People's Ditch Company on Kings River. Lower. 1917 August  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:390 | 700-B-a-74 Headgate of Fresno Canal on Kings River. August, 1917. 1917 August  
Photographer: Adams, Frank  
Scope and Content Note  
Standing on weir, left to right : State Engineer W. F. McClure, Irving Worthington, Assistant State Engineer P. M. Norboe and Dr. Samuel Fortier. |
| Box 59:391 | 700-B-a-75 Original headgate, now used as “safety bulkhead” on Moore Canal of Yolo Water and Power Co., installed spring of 1903 at cost of $1,000. 1914  
Photographer: Hutchins, Wells A.  
Scope and Content Note |
| Box 59:392 | 700-B-a-76 Headgate of James Canal. 1917 October 29  
Photographer: Adams, Frank  
Scope and Content Note  
Water for the Tranquility Colony and a portion of the land of the San Joaquin Valley Farm Lands Company is carried through this old structure. |
| Box 59:393 | 700-B-a-77 Automatic Headgate, Modesto Canal. 1915 July 31  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
Same as 700-B-a-65 |
| Box 59:394 | 700-B-a-78 Regulating gates above tunnel south San Joaquin canal. undated  
Photographer:  
Scope and Content Note |
| Box 59:395 | 700-B-a-79 Weir and headgates on Kings River, Fresno Irrigation District. 1929 March  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:396 | 700-B-a-80 Head gates, Folsom Canal, Calif. undated  
Photographer:  
Scope and Content Note |
Box 59:397  700-B-a-81 Rear view of automatic regulating gate. Oakale Irrigation District, Oakdale, Calif. 1914 December
   Photographer: J.T.K.
   Scope and Content Note

Box 59:398  700-B-a-82 Automatic gate, Oakdale Irrigation District, Oakdale, Calif. 1914 December
   Photographer: Scope and Content Note

Box 59:399  700-B-a-83 Automatic Gate, Imperial Water Co., No. 3, California. undated
   Photographer: Tait, C.E.
   Scope and Content Note

Box 59:400  700-B-a-84 Hanlon Gate on Imperial Canal, California. Intake from Colorado River. 1917 January 4
   Photographer: Tait, C.E.
   Scope and Content Note

Box 59:401  700-B-a-85 Allison Heading, Imperial Canal, California. 1917 January 6
   Photographer: Tait, C.E.
   Scope and Content Note

Box 59:402  700-B-a-86 Headworks Imperial Canal. 1915
   Photographer: Tait, C.E.
   Scope and Content Note

Box 59:403  700-B-a-87 Sluice gates, Laguna dam from California side, Colorado River. 1913 August
   Photographer: Tait, C.E.
   Scope and Content Note

Box 59:404  700-B-a-88 Sluice gates and canal headgates, Laguna dam from Calif. side of Colorado River. 1913 August
   Photographer: Tait, C.E.
   Scope and Content Note

Box 59:405  700-B-a-89 Headgate on lateral at International boundary Imperial V. 1915
   Photographer: Tait, C.E.
   Scope and Content Note

Box 59:406  700-B-a-90 Headgate of California Development Co. at Hanlons heading on the Colorado River. Permanent steel and concrete headgates just completed in California for Imperial system. View taken before canal was dug. This gate to be used after river is turned into old channel. 1906 August
   Photographer: Tait, C.E.
   Scope and Content Note

Box 59:407  700-B-a-91 The "Rockwood" or Temporary Headgate of the C.D.Co. To be used only in turning the Colorado River. Contains 8,000 ft. of lumber and cost $13,000. 1906 August
   Photographer: Tait, C.E.
   Scope and Content Note
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<td>59:408</td>
<td>700-B-a-92</td>
<td>Regulating gates from below, Prof. S. Fortier on right, H. S. Crowe, Superintendent of Canal, in center and caretaker J. L. Montgomery on left. Modesto Canal, Calif. undated</td>
<td></td>
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<td>59:409</td>
<td>700-B-a-93</td>
<td>Headgate Below San Antonio Canyon, near Claremont, California, for water conservation work of Pomona Valley Association. undated</td>
<td></td>
<td>Tait, C.E.</td>
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<td>59:410</td>
<td>700-B-a-94</td>
<td>Headgate of ditch on Cache Creek-(Happin, Gibson, Graig, et al on top) about 90 second feet going through the gates and three times this volume going through and over the dam. Calif. 1900 May 23</td>
<td></td>
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<td>59:411</td>
<td>700-B-a-95</td>
<td>Headgate, Byron Jackson, source of supply wells, Calif. 1900</td>
<td></td>
<td>Adams, Frank</td>
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<td>59:412</td>
<td>700-B-a-96</td>
<td>Head gate of Placerville Ditch, El Dorado County. 1919 August</td>
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<td>Adams, Frank</td>
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<td>59:413</td>
<td>700-B-a-97</td>
<td>Joint Headgate for Hallwood Irrigation Company, and Cordua Irrigation District Directly Above the Government Debris Weir on Yuma River. 1918 July</td>
<td></td>
<td>Adams, Frank</td>
<td></td>
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<td>59:414</td>
<td>700-B-a-98</td>
<td>Head-gate - Anderson Cottonwood Irrigation District canal. 1924 March 20</td>
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<td>Adams, Frank</td>
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<td>59:415</td>
<td>700-B-a-99</td>
<td>Flood gate in highway borrow pit used for flooding lands in Big Valley. The use of the highway borrow pits for irrigation channels is quite common in this valley. 1925 June 18</td>
<td></td>
<td>Adams, Frank</td>
<td></td>
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<tr>
<td>59:416</td>
<td>700-B-a-100</td>
<td>A typical flood gate in a slough in Big Valley near Bieber. 1925 June 18</td>
<td></td>
<td>Adams, Frank</td>
<td>By means of this gate the adjoining lands are flooded, this being the common method of irrigation in Big Valley.</td>
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<td>59:417</td>
<td>700-B-a-101</td>
<td>Headgate of the Fresno Irrigation District, on Kings River. 1929 March 14</td>
<td></td>
<td>Adams, Frank</td>
<td>Slide No. 640</td>
</tr>
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Box 59:418 700-B-a-102 **Dahlia Heading from lower side. Automatic spillway at right to maintain constant water level upstream. Imperial Irrig. District. 1931 April**

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 59:419 700-B-a-103 **Automatic electrically operated main headgate to Consolidated Canal, water level downstream. 1929 March**

Photographer: Adams, Frank

Scope and Content Note

Box 59:420 700-B-a-104 **Automatic electrically operated main headgate to Consolidated Canal. 1929**

Photographer: Adams, Frank

Scope and Content Note

Box 59:421 700-B-a-105 **Headgate to More Ditch, Cache Creek, Yolo County. 1931 September**

Photographer: Givan, C.V.

Scope and Content Note

Box 59:422 700-B-a-106 **Intake on Imperial Canal at Andrade, California undated**

Photographer: Adams, Frank

Scope and Content Note

Box 59:423 700-B-a-107 **(2 prints) Headgate undated**

Photographer: Adams, Frank

Scope and Content Note

Box 59:424 700-B-a-108 **Headgate. undated**

Photographer:

Scope and Content Note

Box 59:425 700-B-a-109 **Rockwood Heading of Imperial District Canal Andrade, Colorado River undated**

Photographer: Adams, Frank

Scope and Content Note

Box 59:426 700-B-a-110 **Headgates on south side Capay dam. 1929 April 28**

Photographer:

Scope and Content Note

Box 59:427 700-B-a-111 **Headgates on north side Capay dam. 1929 April 28**

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 59:428 700-B-a-112 **Rockwood gate and bypass undated**

Photographer:

Scope and Content Note

Box 59:429 700-B-a-113 **Headgates, Folsom Canal undated**

Photographer:

Scope and Content Note
| Box 59:430 | 700-B-a-114 Windlass? on headgates, Modesto Canal 1904 |
| Box 59:431 | 700-B-a- Division point, Turlock Main Canal and Ceres Main Canal, Turlock Irrig. Dist. Ceres Main canal to right. See: 700-K-57 1929 August |
| Box 59:432 | 700-B-a- Headgate to Lone Tree Canal. Consolidated Irrigation District. Two 42-inch and one 24-inch pipes equipped with Venturi meters. See card 700-J-81 1930 December |
| Box 59:433 | 700-B-b-1 Concrete and steel headgate on Turlock Canal at outlet of Dawson Lake, Calif. undated |
| Box 59:434 | 700-B-b-2 Headgate of Keeno Power Canal in Link River between Upper and Klamath Lakes, Klamath Reclamation Service Project, Oregon. 1920 September |
| Box 59:435 | 700-B-b-3 Headworks to Hansen Canal. Adjustable submerged orifice measuring device and cast iron rectangular gate. Fresno Irrigation District. 1929 May 6 |
| Box 59:436 | 700-B-b-4 Headgate to Gould Canal, Fresno Irrigation District, capacity about 375 second feet. Four foot cast iron rectangular gates. 1929 May 6 |
| Box 59:437 | 700-B-b-5 Headworks to Consolidated Irrigation Dist. Canal at division from Kings River at Centerville. 10 radial gates with center 6 automatically controlled to keep constant water level downstream. Electric control. 1929 May 6 |
| Box 59:438 | 700-B-b-6 Fish screen (open) in south side Canal near Capay Weir. Yolo Water & Power Co. 1929 April 28 |
| Box 59:439 | 700-B-b-7 Check gate or drop at head of Fowler Switch Canal. One of first concrete checks built by Mr. I.H. Teilman, Engineer, Consolidated Irrig. Dist. See card 700-K-28 1929 May 18 |
| Box 59:440 | 700-B-b-8 **Headgate on main canal at head of Lateral No. 3, Modesto Irrigation District. Automatic radial gate to keep constant water level upstream from gate. 1929 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 59:441 | 700-B-b-9 **Headgate Lytle Creek, water spreading grounds near San Bernadino, Calif. Upstream from Parshall flume. 1933 June 29**  
Photographer: Huberty, Martin R.  
Scope and Content Note |
| Box 59:442 | 700-B-b-10 **Parshall flume and headgate 1933 June 29**  
Photographer: Huberty, Martin R.  
Scope and Content Note |
| Box 59:443 | 700-B-b-11 **Regulating gates at head of Imperial Canal. 1927**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:444 | 700-B-b-12 **New headgate at Imperial canal north of Cendrade. (3 views) circa 1926-1927**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:445 | 700-B-b-13 **Cement headgate below spillway Turlock Canal. Mechanism patented by R.V. Meikle undated**  
Photographer:  
Scope and Content Note |
| Box 59:446 | 700-B-b-14 **Alfalfa head gate undated**  
Photographer:  
Scope and Content Note |
| Box 59:447 | 700-B-b-15 **Collar Automatic Canal Gate undated**  
Photographer:  
Scope and Content Note |
| Box 59:448 | 700-B-b-16 **Collar Automatic Canal Gate undated**  
Photographer:  
Scope and Content Note |
| Box 59:449 | 700-B-c-1 **Delivery gate with radial shutter, taken before canal banks were completed. Used on Turlock Irrigation District, Calif. 1912 June**  
Photographer: F.C.S.  
Scope and Content Note |
| Box 59:450 | 700-B-c-2 **Current wheel geared to chain with buckets on Riverside W. Cos, Upper Canal undated**  
Photographer:  
Scope and Content Note |
1895-1959

Box 59:451  
700-B-d-1 Gate-lifting Device, Headgate of Snake River Valley Irrigation District, Idaho. undated  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This print is from a negative loaned by Mr. W. O. Cotton, Manager of the Idaho Irrigation District.

Box 59:452  
700-B-d-2 Lifting device for the radial gates used in the outlet structure for Dallas Lake Reservoir, on the Modesto Irrig. Dist., Calif. 1912 June  
Photographer: F.C.S.  
Scope and Content Note

Box 59:453  
700-B-d-3 No. 371. Operating machinery, regulating gates south San Joaquin canal. undated  
Photographer:  
Scope and Content Note

Box 59:454  
700-B-d-4 Regulating gate at Imperial Canal. 1926  
Photographer: Adams, Frank  
Scope and Content Note

Box 59:455  
700-C-1 Flushing and regulating gates, Modesto Canal, Calif. undated  
Photographer: Adams, Frank  
Scope and Content Note

Box 59:456  
700-C-2 (No neg.) Drift Trap on Pipe Line, Fontana Water Company, California. undated  
Photographer: Tait, C.E.  
Scope and Content Note

Box 59:457  
700-C-3 Sluice gate at lower end of lateral made of rubble masonry. Imperial Irrigation District 1931 April  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 59:458  
700-C-4 Experimental sand-trap flume being erected near Rositas Heading of Imperial Irrigation District, by R.L. Parshall. 1934 March 24  
Photographer: Adams, Frank  
Scope and Content Note  
Partially constructed canal and bulkhead, and flume platform in distance. (View A). Platform on which flume is being erected and bulkhead and partially excavated canal leading to flume. (View B).

Box 59:459  
700-D-1 Wasteway of the Central Irrigation District, Nebraska. 1916 December 6  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This is a concrete structure, although the headgate is of wood, and was installed by the Central Irrigation District.

Box 59:460  
700-D-2 Heading and Waste-way, East Ditch, Big Rock Creek Irrigation District, California. 1915 June 30  
Photographer: Hutchins, Wells A.  
Scope and Content Note
Box 59:461  700-D-3 Spillway on Alamo River, below diversions of Imperial North End Water Company and Imperial Northside Water Company, California 1917 May 30
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 59:462  700-D-4 Spillway at western end of Lake Almanor Dam, Plumas County, Calif. 1917 September
   Photographer: Adams, Frank
   Scope and Content Note
   This spillway is 150 feet wide in that portion above the bridge.

Box 59:463  700-D-5 Spillway, Lyons Dam, South Fork Stanislaus River, Calif. undated
   Photographer:
   Scope and Content Note

Box 59:464  700-D-6 Spillway, Lyons Dam, South Fork Stanislaus River, Calif. undated
   Photographer:
   Scope and Content Note

Box 59:465  700-D-7 Wasteway "Middle Dam" on South Fork of Stanislaus River, Calif. 1908
   Photographer:
   Scope and Content Note

Box 59:466  700-D-8 View of spillway from lower side, Phoenix Dam near Sonora, Calif. undated
   Photographer:
   Scope and Content Note

Box 59:467  700-D-9 Rositas wasteway, Imperial Valley, Calif. 1913 August
   Photographer: Tait, C.E.
   Scope and Content Note

Box 59:468  700-D-10 Wateway "Lower Strawberry Dam", South Fork of Stanislaus River, Calif. 1908
   Photographer:
   Scope and Content Note

Box 59:469  700-D-11 Spillway, Sweetwater dam, San Diego County, Calif. 1911 October
   Photographer: Tait, C.E.
   Scope and Content Note

Box 59:470  700-D-12 Waste Gate, Turlock Irrigation District, Calif. 1912 June
   Photographer: F.C.S.
   Scope and Content Note

Box 59:471  700-D-13 Spillway on main ditch S.A.V.I. Co. above Olive, Calif. 1919 April
   Photographer: F.W.S.
   Scope and Content Note

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Inventory of the Department of Irrigation Photographs
| Box 59:472 | 700-D-14 Outlet Clear Lake from Island showing character of valley through which Cache Creek flows from Clear Lake, also showing mouth of creek, two miles from Cache Creek riffle, Calif. 1900 |
| Box 59:473 | 700-D-15 Spillway under construction - Don Pedro Dam. undated |
| Box 59:474 | 700-D-16 Siphon spillway, Palmdale-Littlerock Dam. 1924 June 18 |
| Box 59:475 | 700-D-17 Gates to spillway at Don Pedro Dam, October 28, 1928. 1928 October 28 |
| Box 59:476 | 700-D-18 Don Pedro Dam. Spillway - radial gates. 1923 April 22 |
| Box 59:477 | 700-D-19 Untitled 1929 August |
| Box 59:478 | 700-D-20 Side spillway on East High Line Canal built of rubble masonry. Calipatria Division, Imperial Irrigation District. 1931 April |
| Box 59:479 | 700-D-21 Downstream view of washout of Spillway at NW corner of University Farm, Davis, California, which occurred on May 29, 1932 1932 June 17 |
| Box 59:480 | 700-D-22 Washout of Spillway at NW corner of University Farm, Davis, Calif. May, 1932. Looking into wash from headgate to north lateral 1932 June 17 |
| Box 59:481 | 700-D-23 2 views. Washout of Spillway at NW corner of University Farm, Davis. May, 1932. Looking upstream from spillway location. 1932 June 17 |
| Box 59:482 | 700-D-24 Spillway on Stony Gorge dam. Orland project. undated |
Box 59:483  700-E-1 **Riffle on the Los Angeles Aqueduct, California. 1914**
   Photographer: J.L.K.
   Scope and Content Note
   Note by Veihmeyer, Frank J.-abandoned, sometime before 1936

Box 59:484  700-E-2 **Chute, Undergoing Lining, Orland Project, California. 1914**
   Photographer: J.L.K.
   Scope and Content Note

Box 59:485  700-E-3 **Fish Ladder, Orland Irrigation Project, California. 1914**
   Photographer: J.L.K.
   Scope and Content Note

Box 59:486  700-E-4 **Chute, Undergoing Lining, Orland Project, California. 1914**
   Photographer: J.L.K.
   Scope and Content Note

Box 59:487  700-E-5 **Section of Newly Constructed Chute, Orland Project, California. 1914**
   Photographer: J.L.K.
   Scope and Content Note

Box 59:488  700-E-6 **Another Picture of the River Chute, Shown By the Preceding Picture No. Los Angeles Aqueduct, California. 1914 December**
   Photographer: J.L.K.
   Scope and Content Note
   Abandoned, sometime before 1936

Box 59:489  700-E-7 **Concrete chute wasteway into river channel. Imperial Irrigation District. Lower cut-off wall rests on heavy sheet piling. 1931 April**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 59:490  700-E-8 **Rubble masonry chute on spillway. Imperial Irrigation District. 1931 April**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 59:491  700-F-123 **Constructing Concrete Drop with Warped Transition Walls, Ceres Main, Turlock Irrigation District, Cal. 1915 December 1**
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 59:492  700-F-124 **Parks Drop, Ceres Main Canal, Turlock Irrigation District, Cal. 1915 July 30**
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   The automatic device for regulating the radial gate is shown on the left.
| Box 59:493 | 700-F-125 **Check Drop and Weir, Sacramento Valley Irrigation Co., Willows, Cal. 1915 June 05**  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This structure is on the main canal, north-east of Willows. Several gates were used for the installation of the slanting weirs. The register box is shown on the right. The entire head of water going down this canal is shown going over the three openings. The grade is so slight that the amount of water actually carried is much less than it would appear to be. |
| Box 59:494 | 700-F-126 **Typical Drop with Automatic Regulating Gate on the Ceres Main Canal, Turlock Irrigation District, Cal. 1915 July 30**  
Photographer: Hutchins, Wells A.  
Scope and Content Note |
| Box 59:495 | 700-F-127 **Drops in the Main Distributing Furrow in a Citrus Orchard near Penryn, California. undated**  
Photographer: Adams, Frank  
Scope and Content Note  
Each drop is protected from erosion by means of a piece of building paper. |
| Box 59:496 | 700-F-128 **Concrete Drop, Modesto Irrigation District California. 1916 July 24**  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 59:497 | 700-F-129 **Hickman Concrete Drop on Turlock Canal, California. 1914**  
Photographer: J.L.K.  
Scope and Content Note |
| Box 59:498 | 700-F-130 **Wood Drop in Main Canal, Kern County Land Co., Bakersfield, California. 1914**  
Photographer: J.L.K.  
Scope and Content Note |
| Box 59:499 | 700-F-131 **Concrete Drop and Check on Fowler Switch Canal at Fresno, California. 1914**  
Photographer: J.L.K.  
Scope and Content Note |
| Box 59:500 | 700-F-132 **Typical Drop and Weir in the Orland Project, California. 1914**  
Photographer: J.L.K.  
Scope and Content Note  
Slide No. 650 |
| Box 59:501 | 700-F-133 **Partially Constructed Forms for Pouring Concrete for Drop in Orland Project Lateral, California. 1914**  
Photographer: J.L.K.  
Scope and Content Note  
Picture shows the extent of reinforcement. |
| Box 59:502 | 700-F-134 **Concrete Drop, Sacramento Valley Irrigation Project, California. 1914**  
Photographer: J.L.K.  
Scope and Content Note |
| Box 59:503 | 700-F-135 Partially Constructed Forms for Pouring Concrete for Drop in Orland Project Lateral, California. 1914  
Photographer: J.L.K.  
Scope and Content Note |
| Box 59:504 | 700-F-136 Typical Weir and Drop, Orland Project, California. 1914  
Photographer: J.L.K.  
Scope and Content Note |
| Box 59:505 | 700-F-137 Ventura Avenue Drop on Fresno Canal. August, 1917. 1917 August  
Photographer: Adams, Frank  
Scope and Content Note  
Shows effect of “backlash” below the drop. A similar condition exists on the opposite side not shown in the picture. |
| Box 59:506 | 700-F-138 Drop on Spalding Main Lateral near Norman, California. 1918 June 01  
Photographer: Adams, Frank  
Scope and Content Note  
Water is measured over this drop to rice land included in duty of water investigations, 1918. Picture shows field engineer, H.M. Stafford changing a record sheet on the register. |
| Box 59:507 | 700-F-139 Silt sampling station, Niland, Calif. Check gate. 1917  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 59:508 | 700-F-140 Drop central branch Imperial canal at international boundary. 1915  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:509 | 700-F-141 Concrete drop, central branch, Imperial Valley Canal, near Mexicali, Mexico. 1911  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:510 | 700-F-142 Reconstruction of timber drop in main lateral canal. Imperial Valley, near Imperial, Calif. 1914 December  
Photographer: J.T.K.  
Scope and Content Note |
| Box 59:511 | 700-F-143 Drop to relieve head-works, Imperial Water Co, No. 1. 1903 June  
Photographer: J.E.R.  
Scope and Content Note |
| Box 59:512 | 700-F-144 Imperial Valley, Calif. 1914 December  
Photographer: J.T.K.  
Scope and Content Note |
| Box 59:513 | 700-F-145 Combined drop and check on Crockers and Hoffman Canal, Merced Co., Calif. 1903 August  
Photographer: Fortier, Samuel  
Scope and Content Note |
Box 59:514  700-F-146 **15-foot drop on Modesto Canal, Calif.** undated
Photographer:
Scope and Content Note

Box 59:515  700-F-147 **Wooden drop, Modesto Canal, Calif. 1904**
Photographer:
Scope and Content Note

Box 59:516  700-F-148 **Reinforced concrete drop, Modesto Irrigation District, Calif.** undated
Photographer:
Scope and Content Note

Box 59:517  700-F-149 **Orland Project, U.S. Reclamation Service, Orland, Calif. 1914 November**
Photographer: J.T.K.
Scope and Content Note

Box 59:518  700-F-150 **Canal drop, Palo Verde Valley, Calif. 1913 August**
Photographer: Tait, C.E.
Scope and Content Note

Box 59:519  700-F-151 **Drop and regulating works on main canal. South San Joaquin Irrigation District, Manteca, Calif. 1914 December**
Photographer: J.T.K.
Scope and Content Note

Box 59:520  700-F-152 **Looking downstream from top of drop and regulating works on main canal, South San Joaquin Irrigation District, Manteca, Calif. 1914 December**
Photographer: J.T.K.
Scope and Content Note

Box 59:521  700-F-153 **Construction of drop, lower side, Turlock Canal, Calif.** undated
Photographer:
Scope and Content Note

Box 59:522  700-F-154 **Drop during repairing, Turlock Canal, Calif.** undated
Photographer:
Scope and Content Note

Box 59:523  700-F-155 **Filling in above a drop, Turlock Canal, California.** undated
Photographer:
Scope and Content Note

Box 59:524  700-F-156 **Construction of drop, Turlock Canal, Calif.** undated
Photographer:
Scope and Content Note

Box 59:525  700-F-157 **Concrete Drop, Turlock Irrigation District, Calif. This drop is on the High Line Canal. Note the extreme lightness of the side walls, being but 4 inches in thickness at the top. 1912 June**
Photographer: F.C.S.
Scope and Content Note
| Box 59:526 | 700-F-158 Downstream view of 5 space concrete drop or check gate. New type. End piers omitted. Crate on top for holding flashboards during non-operating season. Alta Irrig. Dist. See card 700-K-29 1929 May 29  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 59:527 | 700-F-159 Concrete drop, 2 spaces 4' wide. Crate built to lock up flashboards during non-operation season. Picture shows Calco gates installed on sloping sidewalls of lined section of canal above drop. End piers on drop were eliminated on later installations. (See other view) Alta Irrig. Dist. See card 700-K-30 1929 May 29  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 59:528 | 700-F-160 Hickman Drop, Main Canal, Turlock Irrigation District. 1929 August  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 59:529 | 700-F-161 Drop on lateral canal, Wapato Indian Irrigation Project, Yakima Valley, Washington. 1932  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 59:530 | 700-F-162 Two precast checks in series to form a drop. Fresno Irrigation Dist. 1938  
Photographer: A.J.Gerner; Fresno Irrigation Dist.  
Scope and Content Note |
| Box 59:531 | 700-F-163 Untitled undated  
Photographer:  
Scope and Content Note |
| Box 59:532 | 700-F-164 Hickman drop. Turlock 1908  
Photographer:  
Scope and Content Note |
| Box 59:533 | 700-F-165 Untitled undated  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 59:534 | 700-G-29 Inverted Syphon, Railroad Crossing, Willows, Cal. 1915 June 3  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This is on the Main Canal of the Sacramento Valley Irrigation Co., just south of Willows. |
| Box 59:535 | 700-G-30 Siphon Across Railroad, Gem Irrigation District, Idaho. 1916 December 30  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This is the type of siphon used very extensively on the laterals in this District. |
| Box 59:536 | 700-G-31 Laying Concrete Siphon, Orland Project, California. 1914  
Photographer: J.L.K.  
Scope and Content Note |
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<thead>
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<th>Box</th>
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<td>59:537</td>
<td>700-G-32</td>
<td>Concrete Siphon and Outlet Gate, Orland Project, California. 1914</td>
<td></td>
<td>J.L.K.</td>
<td>Scope and Content Note</td>
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<td>59:538</td>
<td>700-G-33</td>
<td>Newly Constructed Siphon, Orland Project, California. 1914</td>
<td></td>
<td>J.L.K.</td>
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<td>59:539</td>
<td>700-G-34</td>
<td>Newly Constructed Siphon, Orland Project, California. 1914</td>
<td></td>
<td>J.L.K.</td>
<td>Scope and Content Note</td>
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<td>59:540</td>
<td>700-G-35</td>
<td>Newly Constructed Siphon, Orland Project, California. 1914</td>
<td></td>
<td>J.L.K.</td>
<td>Scope and Content Note</td>
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<tr>
<td>59:541</td>
<td>700-G-36</td>
<td>Screen Above Siphon in a Concrete Lined Lateral on the Orland Project, California. 1914</td>
<td></td>
<td>J.T.K.</td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>59:542</td>
<td>700-G-37</td>
<td>Irrigating siphon, El Centro. Used principally to siphon water over ditch banks to irrigate country roads. 1913</td>
<td></td>
<td>Tait, C.E.</td>
<td>Slide No. 653</td>
</tr>
<tr>
<td>59:544</td>
<td>700-G-39</td>
<td>Sheet metal siphon used in center opening of 3 space check gates on small laterals in Modesto Irrigation District. Capacity 20 to 25 c.f.s. Used to prevent excessive heads from overtopping banks. 1929 August</td>
<td></td>
<td>Christiansen, Jerald Emmet</td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>59:545</td>
<td>700-G-40</td>
<td>Sheet metal syphon used for irrigation of alfalfa by O.W. O’Bannion 1 mile east of Winters 1931 June</td>
<td></td>
<td>Christiansen, Jerald Emmet</td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>59:546</td>
<td>700-G-41</td>
<td>Assembling siphons, Yuma project, Colorado River undated</td>
<td></td>
<td>Adams, Frank</td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>59:547</td>
<td>700-G-42</td>
<td>Assembling siphons on Yuma project, Colorado River undated</td>
<td></td>
<td>Adams, Frank</td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>59:548</td>
<td>700-G-43</td>
<td>Siphons on river side, Yuma project, Colorado River. Installed by Delta Canal Co.--Pescadero Cut April, 1928 undated</td>
<td></td>
<td>Adams, Frank</td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>
Box 59:548  700-G-47 (No neg.) **Discharge end of siphon. Yuma project, Colorado River. Intake of siphons on Pescadero Cut undated**
Photographer: Adams, Frank
Scope and Content Note

Box 59:549  700-G-48 (No neg.) **Assembling siphons on Yuma project, Colorado River. New Delta Canal leading from siphons Apr. 1928 undated**
Photographer: Adams, Frank
Scope and Content Note

Photographer: Adams, Frank
Scope and Content Note

Box 59:551  700-G-50 **Discharge end of Baja California siphons. See Internation Commission United States and Mexico report. House Document 359. 1929**
Photographer: Adams, Frank
Scope and Content Note

Photographer: Adams, Frank
Scope and Content Note

Box 59:553  700-G-52 **Fabricated wooden syphons taken by J.D. Long, Iowa, spring 1942. 1942 Spring**
Photographer: J.D. Long
Scope and Content Note
Slide No. E-1429

Box 59:554  700-G-53 **Fabricated wooden syphons taken by J. D. Long, Iowa, Spring 1942. 1942 Spring**
Photographer: J.D.Long
Scope and Content Note
Slide No. E-1430

Box 59:555  700-G-54 **Siphons set up to irrigate beans southwest of Woodland. October 2, 1947. 1947 October 2**
Photographer: Johnston, C.N.
Scope and Content Note

Box 59:556  700-G-55 **Tapoon and siphons. Irrigating tomatoes east of Woodland, 4 miles. 1947 October 2**
Photographer: Johnston, C.N.
Scope and Content Note

Box 59:557  700-G-56 **Siphons set up to irrigate tomatoes, 4 miles East of Woodland, October 2, 1947 1947 October 2**
Photographer: Johnston, C.N.
Scope and Content Note
| Box 59:558 | 700-G-57 Siphons irrigating beans, southwest of Woodland. October 2, 1947. 1947 October 2 |
| Box 59:559 | 700-G-58 8" Portable Siphons being used in the Woodland area for irrigating alfalfa. 1950 May |
| Box 59:560 | 700-G-59 Portable aluminum siphons. Black siphon treated with Steel-Tex. White or untreated siphon submerged in lab with treated one June 19, 1951. Picture taken month later showing corrosion on untreated siphon. Treated siphon shows no corrosion. 1951 July 19 |
| Box 59:561 | 700-G-60 Alfalfa field being irrigated from a ditch with 8-inch siphons. The location is northwest of Woodland, Calif. 1950 |
| Box 60:1 | 700-H-78 Concrete Flume, In Course of Construction, Across Dry Creek, Modesto Irrigation District, California. 1915 December 4 |
| Box 60:2 | 700-H-79 Rectangular Flume Crossing Swale, Pajaro Valley, Cal. 1915 August 31 |
| Box 60:3 | 700-H-80 Iron Flume and Trestle, Lockwood Irrigation District, Montana. 1916 November 28 |
| Box 60:4 | 700-H-81 Galvanized Iron Flume, Wooden Substructure, and Concrete Abutments, Naches-Selah Irrigation District, Washington. 1916 November 16 |
| Box 60:5 | 700-H-82 Main Flume, Cascade Irrigation District, Washington. 1916 November 19 |
| Box 60:6 | 700-H-83 Flume and Trestle on Steep Hillside, Cascade Irrigation District, Washington. 1916 November 19 |
Box 60:7 700-H-84 Elevated Wooden Flume, Hood River Irrigation District, Oregon. 1916 November 10

Photographer: Hutchins, Wells A.
Scope and Content Note
This is one of the laterals of the District's distributing system. In the middle distance is shown a sub-lateral taking out from this lateral at the left, supported by a trestle.

Box 60:8 700-H-85 Main Flume, Cascade Irrigation District, Washington. 1916 November 19

Photographer: Hutchins, Wells A.
Scope and Content Note
This gives an idea of the size of the flume. This flume was installed by the Irrigation District to replace an old wooden flume, the cost being defrayed by the proceeds of the District's bond issue.

Box 60:9 700-H-86 Main Canal, Naches-Selah Irrigation District, in Yakima Valley, Washington. 1916 November 16

Photographer: Hutchins, Wells A.
Scope and Content Note
This shows the lower end of a galvanized iron flume and the concrete-lined section to which it is joined by a concrete transition. This is on the upper part of the canal, quite a distance from the irrigated lands which it serves. This canal is mostly in earth. Formerly wooden flumes were used to carry the canal around gulches on grade, but the present policy is to substitute these wooden flumes with steel flumes on trestles crossing the gulches directly.

Box 60:10 700-H-87 This and Picture No. 316 show wooden "V" flumes used in carrying water down steep slopes of the Sierra foothills of Placer County, California. undated

Photographer: Adams, Frank
Scope and Content Note
Water is distributed from these flumes to furrows through holes bored in the bottoms of the flumes. The heavy growth of oats and other wild volunteer crops is shown in both pictures. This heavy growth is common to most of the Sierra foothill orchards of Placer County during the irrigation season, due to entire absence of cultivation after irrigation begins in the spring.

Box 60:11 700-H-88 Flume on Lower Slope of Mockingbird Canyon Lake Dam, Gage Canal Company, Riverside, California. 1915 December 14

Photographer: Hutchins, Wells A.
Scope and Content Note
This flume was constructed of American ingot iron or "Armco" iron, No. 18, with a substructure of angle iron. The total cost of this flume and substructure in place was $5,076.19. The material of which the dam was constructed was hydraulicked around the foundation of this flume, consequently, the flume rests on its own foundation and does not depend upon the dam for support.

Box 60:12 700-H-89 Gasburg Flume, Modesto Irrigation District, California. 1915 December 5

Photographer: Hutchins, Wells A.
Scope and Content Note
This was the last of the several wooden flumes on the main canal which were replaced by more permanent structures. With the exception of the Dry Creek flume, which was replaced by a concrete structure, all of the flumes of the Modesto Irrigation District were replaced by fills - most of them hydraulicked fills with concrete lined canals.
Box 60:13  700-H-90  See Picture No. 700-H-87 undated
Photographer: Adams, Frank
Scope and Content Note

Box 60:14  700-H-91  Dry Creek Flume, Modesto Irrigation District California. 1916 July 24
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 60:15  700-H-92  Approach to Dry Creek Flume, Modesto Irrigation District, California. 1916 July 24
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 60:16  700-H-93  Hydrants, Distributing Head Flume, and Masonry Waste Ditch, in the Highgrove Section near Riverside, Cal. 1914
Photographer: Adams, Frank
Scope and Content Note
A line of works of this kind is spaced at regular intervals in this grove, the slope being from left to right and also in the direction of the flume and waste ditch. By use of this complete method, all waste is backed up in the masonry ditch at the lower ends of the furrows and returned to the distributing flume at suitable intervals.

Box 60:17  700-H-94  Concrete Distributing Flume, Paralleling Covina Ditch, California. 1914
Photographer: Adams, Frank
Scope and Content Note
This picture illustrates one main disadvantage of the concrete flume over the underground system. The flume is constantly filled with trash and such a distributary requires considerable headland for the turning of teams. It is only in the groves of considerable slope that such flumes are utilized much now. Some of the growers like them better than an underground system, where the slope is considerable, because it is easier to carry equal quantities of water into the furrows from flumes on side hills than from standpipes.

Box 60:18  700-H-95  Dry Creek Flume, Modesto Irrigation District California. 1916 July 24
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 60:19  700-H-96  Cobble Head Flume, in the Covina Section, California. 1914
Photographer: Adams, Frank
Scope and Content Note

Box 60:20  700-H-97  Efficient Distribution from Concrete Flume in the Rolling Section back of Riverside, California. 1914
Photographer: Adams, Frank
Scope and Content Note
The flume is carried down a fairly steep slope but water is easily taken out on contours into each furrow. A row of red geraniums alongside the flume gives to this scene some of the beauty which makes many of the citrus groves exceedingly attractive.

Box 60:21  700-H-98  Distributing Flume in the Highgrove Section, California. 1914
Photographer: Adams, Frank
Scope and Content Note
Box 60:22 700-H-99 A Concrete Distributing Flume near Covina, California. 1914
   Photographer: Adams, Frank
   Scope and Content Note
   Slide No. E402. Permanent checks are shown directly below each distributing hole. This
   arrangement gives a uniform head over each of the outlets. Permanent checks of this
   nature, however, are not common.

Box 60:23 700-H-100 Large corrugated Iron Flume on main canal of Pacific Gas and Electric
   Company a short distance above Auburn on road to Nevada City. 1917 August
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 60:24 700-H-101 Completed portion of gunite bench flume, Lindsay-Strathmore Irrigation
   District, Aug. 1917. 1917 August
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:25 700-H-102 Shooting side walls on gunite flume of Lindsay-Strathmore Irrigation Dist.
   1919
   Photographer: Adams, Frank
   Scope and Content Note
   Shows method of removing spacer bars. Gun in left center on outside of flume.

Box 60:26 700-H-103 Setting forms and reinforcement on flume of Lindsay-Strathmore Irrig.
   Dist. 1919
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:27 700-H-104 General view of flume of Lindsay-Strathmore Irrigation District. Note
   barrier in flume to hold back water. 1919
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:28 700-H-105 Side walls complete and forms removed from flume of Lindsay- Strathmore
   Irrigation District. Gun at right. 1919
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:29 700-H-106 Molding beams on finished sidewalls, Lindsay-Strathmore Irrigation District
   1919
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:30 700-H-107 Flume on main canal in Potter Valley Irrigation District. 1930
   Photographer: Adams, Frank
   Scope and Content Note

   Calif. 1915 April
   Photographer: Tait, C.E.
   Scope and Content Note
| Box 60:32 | 700-H-111 Fullerton Ditch of Anaheim Union Water Company, Anaheim, Calif. Lower end of wooden flume about eight miles from Anaheim. Experiment No. 65, Project 1-45-P. 1913 August 21  
Photographer: F.C.S.  
Scope and Content Note |
| Box 60:33 | 700-H-112 Distributing flume made by cementing spaul, split granite cobbles, and small boulders, Redlands, Calif. 1903 December  
Photographer: Fortier, Samuel  
Scope and Content Note |
| Box 60:34 | 700-H-113 Cement head flume for orchard irrigation near Pomona, Calif. 1910  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 60:35 | 700-H-114 Cement head flume, orchard irrigation under Gage Canal, Riverside, Calif. 1913  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 60:36 | 700-H-115 Cement head flume, Arlington Fruit Co's. Ranch, Riverside, Calif. undated  
Photographer:  
Scope and Content Note |
| Box 60:37 | 700-H-116 Cement head flume, J.H. Williams ranch, Porterville, Calif. undated  
Photographer:  
Scope and Content Note |
| Box 60:38 | 700-H-117 Cement concrete flume with wooden checks in bottom to increase head-over openings on side, J.H. Williams' orchard, Porterville, Calif. 1903 October  
Photographer:  
Scope and Content Note |
| Box 60:39 | 700-H-118 Cement concrete flume on steep grade. J.H. Williams' orchard, Porterville, Calif. 1903 October  
Photographer:  
Scope and Content Note |
| Box 60:40 | 700-H-119 Cement head-flume for irrigating orange trees, Porterville, Calif. undated  
Photographer:  
Scope and Content Note |
| Box 60:41 | 700-H-120 Cement head-ditch for furrow irrigation. undated  
Photographer:  
Scope and Content Note |
| Box 60:42 | 700-H-121 Semicircular flume formed of galvanized iron on wooden supports, on lateral of Crocker and Hoffman Canal, Merced Co., Calif. 1903 August  
Photographer: Fortier, Samuel  
Scope and Content Note |
| Box 60:43 | 700-H-122 Part of San Diego Flume, now owned by Cuyamaca Water Company. 1912 |
| Box 60:44 | 700-H-123 20-foot flume over Delaney Gulch showing tunnels at lower end, Turlock Canal, Calif. undated |
| Box 60:45 | 700-H-124 Flume over New River supplying District No. 8, constructed in 1903, Imperial Valley, Calif. undated |
| Box 60:46 | 700-H-125 Steel flume on Gage canal at Mockingbird Dam. 1915 August |
| Box 60:47 | 700-H-126 Morton Gulch Flume, Modesto Canal, Calif. undated |
| Box 60:48 | 700-H-127 Peasley Culch flume and hydraulic fill in course of construction, Turlock Main Canal. undated |
| Box 60:49 | 700-H-128 Peasly Fill, Turlock Irrigation District, Calif. This was originally crossed by a flume and was replaced by this hydrauliced fill with rock rip rap, and the canal lined with cement across the fill. The water from the gulch is passed through the fill by a masonry culvert. 1912 June |
| Box 60:50 | 700-H-129 Wooden flume. undated |
| Box 60:51 | 700-H-130 Trestlecarying flume of Anderson-Cottonwood Irrigation District across Sacramento River 1924 March 20 |
| Box 60:52 | 700-H-131 Reinforced concrete flume on Main Canal, Modesto Irrigation District Capacity about 1800 c.f.s. Length 1000'. 2 views. 1929 August |
| Box 60:53 | 700-H-132 Lennon type flume, steel I-beam girders. Lateral No. 4 north. West Stanislaus Irrigation District 1929 August |
| Box 60:54 | 700-H-133 **Intake to Dry Creek Flume on Main Canal. Note accumulation of sand in foreground. Sand to be removed by sluicing. Sluiceway at left. Modesto Irrigation District 1930 January**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:55 | 700-H-134 **Lennon type flume across storm drain near south end of Salton Sea. 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:56 | 700-H-135 **Detail of framing for Lennon type flume across storm drain near south end of Salton Sea. Imperial Irrigation District. (same as 700-H-134) 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:57 | 700-H-136 **Lennon type flume across storm drain, southwest side of Salton Sea. Imperial Irrigation District. 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:58 | 700-H-137 **Gunite flume. Capacity 44 c.f.s., Vista Irrigation District, Vista, Calif 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:59 | 700-H-138 **Transition section at outlet of Lennon type flume. Similar transition at inlet. 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:60 | 700-H-139 **New gunite flume constructed 1929. La Mesa, Lemon Grove, and Spring Valley Irrigation District. 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:61 | 700-H-140 **Old wooden flume built 1876-78. Still in use 1931. Flume constructed of redwood and lined with tar roofing paper. Has required considerable maintenance. La Mesa, Lemon Grove, and Spring Valley Irrigation District, La Mesa, Calif. (4 views) 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:62 | 700-H-141 **Corrugated iron pipe flume on private ditch crossing deep drain. Imperial Irrigation District. (2 views) 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:63 | 700-H-142 **Temporary wooden flume on canal extension. Note that side walls act as stringers. Imperial Irrigation District. (2 views) 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:64 | 700-H-143 Full section of 8-inch Simplex flume. Purchased from California Corrugated Culvert Company. Used in Picnic Day exhibit, April 16, 1932 1932 April 18  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
|---|---|
| Box 60:65 | 700-H-144 Elevated flume. Distribution system for irrigation water, Wenatche, Washington 1932 June  
Photographer: Edlefsen, Niels E.  
Scope and Content Note |
| Box 60:66 | 700-H-145 Concrete distributing flume, East Redlands area 1932 May  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 60:67 | 700-H-146 Concrete farm distributing flume in East Highlands. Trash screen in foreground 1932 May  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 60:68 | 700-H-147 Dulzara flume passing over Matchin Creek, San Diego Co. 1929  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 60:69 | 700-H-148 Dulzara Condent, San Diego Co. 1929  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 60:70 | 700-H-149 (No neg) 10' Parshall Flume; free flow; head Reedley Main. Obtained from Alta Irrigation District, 1939 1939  
Photographer:  
Scope and Content Note |
| Box 60:71 | 700-H-150 (No neg) 10' Parshall Flume; free flow; head of Reedley Main. Obtained in 1939 for Fortier, Samuel fair, from Alta Irrig. Dis. 1939  
Photographer:  
Scope and Content Note |
| Box 60:72 | 700-H-150 Flume for orchard irrigation near Pomona 1910  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 60:73 | 700-H-151 Untitled undated  
Photographer:  
Scope and Content Note |
| Box 60:74 | 700-H-152 Flume built by a farer's irrig enterprise near Redding undated  
Photographer:  
Scope and Content Note |
| Box 60:75 | 700-H-153 Anderson Cottonwood District; Anderson Flume 1922 October 28  
Photographer:  
Scope and Content Note |
Box 60:76  700-H-154 Flume - Mono River undated
   Photographer:
   Scope and Content Note

Box 60:77  700-H-155 Owyhee Project, U.S. Bureau Rec, Oregon. Large concrete syphon across Malheur River and Valley 1958
   Photographer: Marr, J.
   Scope and Content Note

Box 60:78  700-H-156 Cement concrete hydrant box and distributing flumes, Riverside, California 1903 December
   Photographer: Fortier, T.S.
   Scope and Content Note

   Photographer: Adams, Frank
   Scope and Content Note
   Southside Ditches are People's, Last Chance and Lemoore. Water in the farther stream goes to Murphy Slough Ditches. This is a critical point in water distribution on Kings River. A few shovel-fulls of sand or sacks in the channel or a cut out from floods may change the balance between the northside and southside interests.

Box 60:80  700-I-3 Weir across Kings River at head of Fresno and Consolidated Canals. 1917 August
   Photographer: Adams, Frank
   Scope and Content Note
   This is known as the Fresno Weir.

Box 60:81  700-I-4 Weir across King River and head of People's Ditch. August, 1917 1917 August
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:82  700-I-5 Weird across Butte Creek at head of canal on State Land Settlement Tract at time of purchase. undated
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:83  700-I-30 Diversion at entrance of Covina and Azusa ditches. Calif. 1919 April
   Photographer: F.W.S.
   Scope and Content Note

Box 60:84  700-I-31 Eastside Beading, Imperial Canal, California. 1917 January 6
   Photographer: Tait, C.E.
   Scope and Content Note

Box 60:85  700-I-32 (No neg) Combined irrigation and drainage structure and bridge across main canal, Durham State Land Settlement. 1918
   Photographer: Adams, Frank
   Scope and Content Note
   Diversions through pipe in bank controlled by flashboards. During periods when surface drainage is necessary drainage water let into the main ditch through same opening.
Box 60:86 700-I-33 Closer view of combined irrigation and rainage structure and bridge across main canal, Durham State Land Settlement. 1918
Photographer: Adams, Frank
Scope and Content Note

Box 60:87 700-I-34 Combined irrigation and rainage structure and bridge across main canal, Durham State Land Settlement, under construction. 1918
Photographer: Adams, Frank
Scope and Content Note

Box 60:88 700-I-35 Government Debris Weir Across Yuba River During Low Water Period, Summer 1918, About One-half Inch of Water Only in Depth Passing Over the Weir. 1918
Photographer: Adams, Frank
Scope and Content Note
The headgate of the Hallwood Irrigation Company, and of Cordua Irrigation District is on the right bank of the River (going downstream) directly above the west end of this weir.

Box 60:89 700-I-36 Diversion weir on Scott River for Scott Valley Irrigation District, 1928 July 26
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:90 700-I-37 Headworks diversion gate, Cucamonga wash, water spreading project 1933 June 29
Photographer: Huberty, Martin R.
Scope and Content Note

Box 60:91 700-I-38 Flashboard Diversion Dam, Stanford Vina Irrigation Company, on Deer Creek, California. 1928
Photographer: Huberty, Martin R.
Scope and Content Note

Box 60:92 700-I-39 Weir across Kings River at head of Crescent Canal. August, 1917. 1917 August
Photographer: Adams, Frank
Scope and Content Note

Box 60:93 700-I-40 Concrete Weir Thrown Across Cross Creek, spring of 1918, by Lake Land Canal Company. 1918 May 5
Photographer: Adams, Frank
Scope and Content Note
Replaces old wooden structure put in at the time Lake Land Canal was built in 1903. This new structure was erected in connection with the war emergency order permitting Lake Land Canal to divert from Kings River during the flood periods when Kings River carries in excess of 800 c.f.s. at the Piedra gates.

Box 60:94 700-I-41 Untitled undated
Photographer:
Scope and Content Note

Box 60:95 700-I-42 Untitled undated
Photographer:
Scope and Content Note
Box 60:96  
700-J-25 **Automatic lateral gate, Turlock Canal, California. undated**  
Photographer:  
Scope and Content Note

Box 60:97  
700-J-26 **Turnout on Little Rock District. undated**  
Photographer:  
Scope and Content Note

Box 60:98  
700-J-27 **Takeout on Main Canal. Little Rock Creek Irrigation District, Cal. 1915 June 29**  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
The water is dropped into a box shown in the background and hence into an underground pipe.

Box 60:99  
700-J-28 **Lateral Takeout, Imperial Irrigation District, Cal. 1915 June 18**  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
The bulkhead on the right consists of a submerged orifice measuring box as well as a headgate.

Box 60:100  
700-J-29 **Lateral Turnouts, Snake River Valley Irrigation District, Idaho. 1916 December 17**  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
Each of these concrete bulkheads with steel gate forms the heading of a lateral from this canal. The concrete check shown in Picture No. was placed for the purposed of backing up the water for these turnouts. This type of division box is being installed throughout this District as rapidly as funds permit, several thousand dollars worth of work being done each year.

Box 60:101  
700-J-30 **Lindberg Levee Gate, Richvale, California. 1916**  
Photographer: Robertson, Ralph D.  
Scope and Content Note

Box 60:102  
700-J-31 **Levee Gate, Lindberg field, Richvale, California. 1916 October**  
Photographer: Robertson, Ralph D.  
Scope and Content Note

Box 60:103  
700-J-32 **Levee Gate, Phelan Ranch, Butte County, California 1916 October**  
Photographer: Robertson, Ralph D.  
Scope and Content Note

Box 60:104  
700-J-33 **Setting forms for an Outlet Gate, Orland Project, California. 1914**  
Photographer: J.L.K.  
Scope and Content Note

Box 60:105  
700-J-34 **Newly Constructed Gates, Orland Project, California. 1914**  
Photographer: J.L.K.  
Scope and Content Note

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Inventory of the Department of Irrigation Photographs
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<th>Box 60:106</th>
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<td></td>
<td>Photographer: J.L.K.</td>
</tr>
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<tr>
<td></td>
<td>A float in the well on the right operates the radial gate automatically as the water rises and falls, the height of the water in the well being regulated by the slope of the standpipe near the well, which is in turn adjusted by the iron rod shown in the picture.</td>
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<th>Box 60:107</th>
<th>700-J-36 Typical Gate Structure on the Orland Project, California. 1914</th>
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<td>Photographer: J.L.K.</td>
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<td>Photographer: J.L.K.</td>
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<th>700-J-38 Newly Constructed Concrete Gate, Orland Project, California. 1914</th>
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<td></td>
<td>Photographer: J.L.K.</td>
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<th>Box 60:110</th>
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<td></td>
<td>Photographer: J.L.K.</td>
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<td></td>
<td><strong>Scope and Content Note</strong></td>
</tr>
<tr>
<td></td>
<td>Mr. Albert Burch. Project Manager, is standing in the back.</td>
</tr>
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<th>Box 60:111</th>
<th>700-J-40 Outlet Gate on Supply Canal to East Park Reservoir, Orland Project, California. 1914</th>
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<td></td>
<td>Photographer: J.L.K.</td>
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<th>Box 60:112</th>
<th>700-J-41 Setting Forms for an Outlet Gate, Orland Project, California. 1914</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: J.L.K.</td>
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<th>Box 60:113</th>
<th>700-J-42 Intake of Lateral leading to Van Horn's Land Imperial Northside Water Co., California 1917 May 31</th>
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<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
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<th>700-J-43 Type of Levee Gate, Dodge Rice Fields, West of Nelson, California. 1917 August</th>
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<td></td>
<td>Photographer: Adams, Frank</td>
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<th>Box 60:115</th>
<th>700-J-46 Canals and 4-way structure, Tulare Lake Section. 1918 May 5</th>
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<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td><strong>Scope and Content Note</strong></td>
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</table>
| Box 60:116 | 700-J-49 **Corrugated Pipe Turn-Out, Quint Lateral, Sacramento Valley Irrigation Project, California. undated**  
Photographer:  
Scope and Content Note  
This is typical of some of the turn-outs from the main laterals where only small heads of water are diverted. The turnout consists of a concrete bulkhead and a corrugated pipe through the ditch bank. |
| Box 60:117 | 700-J-50 **Artistic irrigation hydrants, City limits, Covina, Calif. 1919 March**  
Photographer: F.W.S.  
Scope and Content Note |
| Box 60:118 | 700-J-51 **Imperial V ditch gates, Haltville. "Slide" gate and "Spring" gate in foreground. 1913**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 60:119 | 700-J-52 **Constructing check and delivery gate, Eastside canal, Imperial V. 1913 August**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 60:120 | 700-J-53 **Farm ditch gates Calexico, Imperial Valley. Concrete pipe with K.T. iron headgate. 1913**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 60:121 | 700-J-54 **Lateral headgate, Modesto, Calif. undated**  
Photographer:  
Scope and Content Note |
| Box 60:122 | 700-J-55 **Showing lateral headings as made at Niland, Calif. 1914 December**  
Photographer: J.T.K.  
Scope and Content Note |
| Box 60:123 | 700-J-56 **Head gate on lateral of Modesto Canal, grain irrigation plat, Calif. undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 60:124 | 700-J-57 **Orland Project, U.S. Reclamation Service, Orland, Calif. 1914 November**  
Photographer: J.T.K.  
Scope and Content Note |
| Box 60:125 | 700-J-58 **Gate for diverting water to lateral from main fed by pump. Water under pressure when pump is running. Gate must be manipulated when pressure is off. San Dimas, Calif. 1919 March**  
Photographer: F.W.S.  
Scope and Content Note |
Box 60:126 700-J-59 Diversion Gate and Circular Measuring Crest Designed by A. Kempkey and in use on the Balfour-Guthrie Project at Brentwood. undated

Photographer: Adams, Frank

Scope and Content Note
About a ten foot weir crest is obtained by the use of this segment of corrugated iron pipe.

Box 60:127 700-J-60 Diversion Gate and Circular Measuring Crest Designed by A. Kempkey and in use on the Balfour-Guthrie Project at Brentwood. undated

Photographer: Adams, Frank

Scope and Content Note
About a ten foot weir crest is obtained by the use of this segment of corrugated iron pipe.

Box 60:128 700-J-61 Diversion Gate and Circular Measuring Crest Designed by A. Kempkey and in use on the Balfour-Guthrie Project at Brentwood. undated

Photographer: Adams, Frank

Scope and Content Note
About a ten foot weir crest is obtained by the use of this segment of corrugated iron pipe.

Box 60:129 700-J-62 This type of turnout gate and measuring weir designed by A. Kempkey for Balfour-Guthrie Project, but with weir crest length increased by rectangular offset in straight weir board instead of with segment of corrugated iron pipe. undated

Photographer: Adams, Frank

Scope and Content Note

Box 60:130 700-J-63 Close up view of gauge for measuring depth on circular weir crest, Kempke turnout Gate Balfout-Guthrie project. undated

Photographer: Adams, Frank

Scope and Content Note

Box 60:131 700-J-64 Larger type of turnout designed by A. Kempke for Balfour-Guthrie project with circular Weir Crest. undated

Photographer: Adams, Frank

Scope and Content Note

Box 60:132 700-J-65 Lateral and turnout gates - Orland Project. circa 1923 September

Photographer: Adams, Frank

Scope and Content Note

Box 60:133 700-J-66 Waterman Gate on precast concrete headwall. Used by the Fresno I.D. on class B ditches to a limited extent. 1929 July 8

Photographer: Christiansen, Jerald Emmet

Scope and Content Note
Slide no. 652

Box 60:134 700-J-67 Forms for casting headwall on waterman gates, Fresno I.D. 1929 July 8

Photographer: Christiansen, Jerald Emmet

Scope and Content Note
700-J-70 Calco model 101 slide gates and precast headwalls in Fresno Irrig. Dist. yard. Headwall 3" thick. 20" gates. 1929 May 8
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. 651

   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-J-72 Standard turnout installation. Consolidated Irrigation District Gate set in standpipe and pilot tube used for measuring discharge in pipe upstream from gate. 1929 May 13
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-J-73 Lateral headgate. This is an illustration of the use of a standard type of structure regardless of the particular condition of the installation. A culvert head immediately below the gate. James Irrigation Dist. 1929 May 11
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-J-74 #2 Radial gate on canal adjacent to west boundary of University Farm, Davis. 1929 May 1
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-J-75 Checkgate or stop gate at divide in James Irrigation District. Note accumulation of weeds and moss in water above gate. Gate is designed to act both as undershot and overpour. 1929 May 11
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-J-76 Calco slide headgate No. 105 used as a stop gate or check gate in field ditch. Thompson Bros. Rach, Fresno. Structure also used as culvert. 1929 May 6
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-J-77 #3 Wooden check or stop gate adjacent to west boundary of University Farm, Davis. 1929 May 1
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-J-78 Side gate or turnout. 6" concrete headwall on each end of 16' concrete pipe. Calco No. 101 gate. Modesto Irrigation District two views. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-J-79 Detail of framing, Morton type gate. Merced Irrigation District. Same structure as No. 80 1929 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
Box 60:145  
700-J Automatic gate at head of laterals. Stilling basin and 20' rectangular weir standard equipment. Weirs equipped with automatic recorders installed in concrete house. West Stanislaus Irrigation District. 1929 August

Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
See card 7000-M-b-120

Box 60:146  
700-J Adjustable submerged orifice installation on turnout. Fresno Irrigation District 1930 January

Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
See card 700-M-e-7

Box 60:147  
700-J-80 Morton type stop or check gate in 15 to 30 second-foot canals. Merced Irrigation District. 1929 August

Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:148  
700-J-81 Headgate to Lone Tree Canal. Consolidated Irrigation District. Two 42 inch and one 24 inch pipes equipped with Venturi meters. 1930 December

Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:149  
700-J-82 View showing method of setting gate ring and frame in forms when pouring headwall to turnouts. Fresno Irrigation District. 1930 January

Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:150  
700-J-83 2 Neg. Turnout installation in large canal. Fresno Irrigation District. 1930 January

Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:151  
700-J-84 Concrete rectangular side gate with double opening used by the Turlock Irrigation District in lined canals. Constructed during winter of 1930-31. For drawing see Project 860, p.134, fig. 85 1931 March

Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:152  
700-J-85 Standard wooden delivery gate except for width. Width 2' instead of standard 3'. Imperial Irrigation District. 1931 April

Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:153  
700-J-86 Standard 3' x 3' wooden delivery gate. Imperial Irrigation District. Note silt deposited in front of gate. 1931 April

Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:154  
700-J-87 Rubble masonry headgate to lateral. Masonry laid against forms giving appearance of concrete. 1931 April

Photographer: Christiansen, Jerald Emmet  
Scope and Content Note
Box 60:155  700-J-88 Rubble masonry delivery gate with steel plate gate. This structure was constructed when a tight gate was needed. Calipatria Division, Imperial Irrigation District. 1931 April
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 60:156  700-J-89 Lateral headgate to small lateral. Imperial Irrigation District. 1931 April
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 60:157  700-J-91 Standard wooden delivery gates in yard. Calipatria Division, Imperial Irrigation District. (2 views) 1931 April
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 60:158  700-J-92 Rubble masonry headgate to small lateral. Imperial Irrigation District. 1931 April
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 60:159  700-J-93 Skimming weir at head of lateral. This structure designed to keep sand out of lateral. Said to work very satisfactorily if depth over crest is not more than 5” or 6”. Imperial Irrigation District. (3 views) 1931 April
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 60:160  700-J-94 Standard field turnout gate, Imperial Irrigation District 1932 March 1
  Photographer: Adams, Frank
  Scope and Content Note

Box 60:161  700-J-95 Turnout gate made of rubble masonry laid up against forms, Imperial I.D. 1931 April
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 60:162  700-J-96 Fresno Irrigation District slide gate, 18” size. Sold to farmers in district for $4.45 with 2 1/2 feet of pipe, or $4.75 with 3 feet pipe attached. 1936 May 29
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 60:163  700-J-97 Fresno Irrigation District slide gate, 14” size. Sold to farmers in district for $3.24 with 2 1/2 feet of pipe, or $3.45 with 3 feet of pipe attached. 1936 May 29
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 60:164  700-J-98 Delivery gate I.W. no. 5. Imperial Valley. 1914 April
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 60:165  700-J-99 Wooden delivery box. Gate with weir board. Note silt. Imperial Valley. 1914 April
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Inventory of the Department of Irrigation Photographs
| Box 60:166 | 700-J-100 **Orland Project, U.S. Reclamation Service, Orland, Calif. 1914 November**  
Photographer: J.T.K.  
Scope and Content Note |
| Box 60:167 | 700-J-101 **Combination Gate, and delivery structure, Sacramento Valley Irrig. Co. Willows, Calif. 1912 June**  
Photographer: F.C.S.  
Scope and Content Note |
| Box 60:168 | 700-J-102 **Reservoir and discharge gates, North Fork Ditch, Folsom, Calif. May 1900. 1900**  
Photographer:  
Scope and Content Note |
| Box 60:169 | 700-J-103 **Turlock Canal - Regulating and waste gates located at foot of 600 feet tunnel through rock undated**  
Photographer:  
Scope and Content Note |
| Box 60:170 | 700-J-104 **Gate boy to irrigate borders in farm of S.M. Bixby Imperial, Calif. 1905 November**  
Photographer:  
Scope and Content Note |
| Box 60:171 | 700-J-105 **Untitled undated**  
Photographer:  
Scope and Content Note |
| Box 60:172 | 700-J-106 **Cuena Box, University Farm, Davis 1914 May**  
Photographer:  
Scope and Content Note |
| Box 60:173 | 700-J-107 **Untitled undated**  
Photographer:  
Scope and Content Note |
| Box 60:174 | 700-J **Combination delivery gate and check with high drop. Imperial Irrigation District 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
See 700-K-79 |
| Box 60:175 | 700-J **Concrete check and delivery gate in small lateral. Imperial Irrigation District 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
See 700-K-81 |
| Box 60:176 | 700-J **Check and delivery gate on Santa Ana Valley Irrigation Company main canal northeast of Santa Ana, Calif. 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
See 700-K-84 |
Box 60:177  700-J Combination rubble masonry check and delivery. Calipatria Division, Imperial Irrigation District. 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   See 700-K-91 and K-90

Box 60:178  700-J Combination wooden check and delivery gate. This design is very commonly used. Imperial Irrigation District. 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   See 700-K-86

Box 60:179  700-K-1 Typical Concrete Check, West Branch Snake River Valley Canal, Snake River Valley Irrigation District, Idaho. 1916 December 17
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This is the type of construction that the district has done a great deal of in the past two or three years.

Box 60:180  700-K-2 Concrete check spanned by bridge, West branch of Snake River Valley Canal, Snake River Valley Irrigation District, Idaho. 1916 December 17
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 60:181  700-K-3 Irrigating alfalfa, Sacramento Valley Irrigation Experimental Tract, Willows, California. 1915 August 17
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This experimental work on the Sacramento Valley Irrigation tract was carried on only in 1915 but was a part of the general alfalfa duty of water investigations in Sacramento Valley, covering the years 1913-1915 inclusive.

Box 60:182  700-K-4 Pouring concrete for a Weir and Check, Orland Project, California. 1914
   Photographer: J.L.K.
   Scope and Content Note

Box 60:183  700-K-5 Newly constructed concrete check and weir on the Orland Project, California, showing concrete lining. 1914
   Photographer: J.L.K.
   Scope and Content Note

Box 60:184  700-K-6 Newly made concrete weir and check, Orland Project, California. 1914
   Photographer: J.L.K.
   Scope and Content Note

Box 60:185  700-K-7 Wooden check gate for use in alfalfa Fields. 1916 October 24
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This was designed and constructed at the University Farm by S.H. Beckett and his assistants.
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<td>Box 60:189</td>
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<td>Box 60:192</td>
<td>700-K-13 Concrete check box. A patented box never seen in used. undated</td>
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<td>Box 60:194</td>
<td>700-K-15 Ostrom check box prior to being placed in check levees, an excellent box. undated</td>
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<td>Photographer: Adams, Frank</td>
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<td>Box 60:196</td>
<td>700-K-17 Special turnout into pipeline and a small check gate. Adjustable submerged orifice measuring device. Fresno Irrigation District. 1929 May 7</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Box 60:197</td>
<td>700-K-18 Small check gate with standard turnout in wing wall. W -- 30&quot; walls 4&quot; thick. Fresno Irrigation District 1929 May 6</td>
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<td>Box 60:198</td>
<td>700-K-19 Check gate with downstream sloping side walls and two type. A turnout with type A measuring devices. Fresno Irrigation District. 1929 May 4</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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</table>
Box 60:199  700-K-20 Small precast check gate. Ditch tender Curtis and Geo. L. Swendson, Chief Engineer, Fresno Irrigation District 1929 May 10
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:200  700-K-21 Check gate on Central Canal, showing concrete center pier and I beam intermediate piers. Flash boards continuous over I beams. Fresno Irrigation Dist. 1929 May 8
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. 642

Box 60:201  700-K-22 Automatic check gate at head of Hanson Canal on Gould Canal. Calco radial gate and automatic control. Fresno Irrigation District 1929 May 6
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:202  700-K-23 Precast check gate. Width -- 3' clear. Thickness 2 1/2". Reinforced with steel. Fresno Irrigation District 1929 May 6
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. 647

Box 60:203  700-K-24 Same as 700-K-23 but different view. Fresno Irrigation District 1929 May 6
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:204  700-K-25 Standard check gate equipped with slide gate and handwheel. Acts both as an undershot and overpour gate, adapted to special conditions. Check structure is standard type A. Fresno Irrigation District 1929 May 6
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:205  700-K-26 Automatic check gate designed and constructed by Fresno Irrigation District. This structure acts as a spillway for ditch flowing to right. Mr. Anson J. Gerner, Superintendent Fresno Irrigation District 1929 May 8
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:206  700-K-27 Structure on Gould Canal at head of Hanson Canal. At left headworks to Hanson Canal, checkgate with automatic control at right. Fresno Irrigation District 1929 May 7
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:207  700-K-28 Check gate or drop at head of Fowler Switch Canal. One of first concrete checks built by Mr. I. H. Teilman, Engineer, This structure has single length flashboards. Consolidated Irrigation District. 1929 May 18
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
Box 60:208  700-K-29 Downstream view of 2 space concrete drop or check gate. New type. End piers omitted. Crate on top for holding flashboards during non-operating season. Alta Irrigation District. 1929 May 29

Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Slide no. 643

Box 60:209  700-K-30 Concrete drop, 2 spaces 4' wide. Crate built to lock up flashboards during non-operation season. Picture shows Calco gates installed on sloping sidewalls of lined section of canal above drop. End piers on drop were eliminated on later installation. (See other view) Alta Irrigation District 1929 May 29

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:210  700-K-31 20' drop on C and K Canal. One of first designed and built structures for consolidated Irrigation District by Mr. I. H. Teilman, Engineer. Note: This structure has 3" plank walk instead of concrete walk. 1929 May 18

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:211  700-K-32 Large drop check gate. Consolidated Irrigation District. Difference in water levels upstream and downstream about 6'. 1929 May 13

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:212  700-K-33 Standard two space check gate. Clear width between outside walls 13'8". Flash boards extend across entire structure with center pier for support. Mr. I. H. Teilman Engineer Consolidated Irrigation Dist. 1929 May 13

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:213  700-K-34 Check gate, 5'8" wide in clear. Standard installation Consolidated Irrig. Dist. 1929 May 18

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:214  700-K-35 Standard check gate, Consolidated Irrigation District Clear width of opening 7'8". 1929 May 13

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:215  700-K-36 Check gate built of 36" pipe vertical and 24" pipe horizontal. Cost of this structure was $56.00. A very economical type for small structures. Consolidated Irrig. Dist. 1929 May 13

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:216  700-K-37 Combination check gate and culvert, with three turnouts in wing walls. Mr. I. H. Teilman, Engineer, Consolidated Irrigation District. 1929 May 13

Photographer: Christiansen, Jerald Emmet
Scope and Content Note
| Box 60:217 | 700-K-38 **Large drop or checkgate on main canal Alta Irrigation District. Clear width of each opening 4'0". Boxes at each end to hold flashboards during non-operation season. 1929 May**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
Slide no. 646 |
| Box 60:218 | 700-K-39 **Large concrete check gate or drop on Fowler Switch Canal. Openings 7'6" clear. Flash boards continuous over two openings. Downstream view. Consolidated Irrig. Dist. 1929 May 13**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
Slide no. 645 |
| Box 60:219 | 700-K-40 **Large check and drop on Fowler Switch Canal. Opening 7'6" clear. Flash boards 16' long continuous over two openings. Upstream view. Consolidated Irrigation District. 1929 May 13**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:220 | 700-K-41 **Automatic check gate on lateral canal, Modesto Irrigation District. 4'0" radial gate. Old style structure not being constructed at present time. 1929 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:221 | 700-K-42 **Automatic check gate. Radial gate 10'0" wide. Openings 5'0". Plank walk. Merced Irrigation District. 1929 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:222 | 700-K-43 **Wooden stop gate or check gate in earth canal. Merced Irrigation District. 1929 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:223 | 700-K-44 **Untitled 1929 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
Check gate or stop gate. Combination concrete and Redwood. This structure is typical of structures now being installed in Merced Irrigation District. Contract bid on this type of structure has been $25.00 per cu. yd. of concrete when district furnished cement and steel, making total cost about $30.00 per cu. yard. Wooden gates extra. |
| Box 60:224 | 700-K-45 **Check gate or stop gate under construction. Lateral No. 4 north. West Stanislaus Irrigation District. 1928 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:225 | 700-K-46 **Untitled 1929 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
Wooden check gate or stop gate in lined canal. Structure built and placed in ditch without shutting off water. See files for drawing showing details of structure. Turlock Irrigation District. |
Box 60:226  700-K-47 Check gate or stop gate in private ditch. (Thornberg ditch) Turlock Irrigation District. Standard type of structure designed for use in Improvement Districts. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:227  700-K-48 Concrete check gate or stop gate in lined canal. Turlock Irrigation District. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:228  700-K-49 Automatic check gate. Turlock Irrigation District 1929 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:229  700-K-50 Old style automatic check gate. Turlock Irrigation District. Wooden radial gate. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:230  700-K-51 Concrete check gate or stop gate in lined canal. Turlock Irrigation District. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:231  700-K-52 Four space check gate or weir, Modesto Irrigation District. Width of spaces 5'0" c. to c. Note I-beam flashboard guides. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:232  700-K-53 Fifty foot check gate (Weir) in Modesto Irrigation District. Standard type structure. Warped wing walls. I-beam flashboard grooves on slope 1/4 to 1. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:233  700-K-54 Standard type automatic checkgate or weir. Modesto irrigation District. Width of radial gate 8'0" clear, other spaces 5'0" c. to c. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:234  700-K-55 See card 700-B-b-8 Headgate on main canal at head of Lateral No. 3, Modesto Irrigation District. Automatic radial gate to keep constant water level upstream from gate. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:235  700-K Stop gate in main lateral, University Farm, Davis, California. Outlet gates on diagonal is not satisfactory. 1929 October
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   See card 700-N-c-11
Box 60:236  700-K-56 Combination wood and concrete stop or check gate in large lateral. Merced Irrigation District. 1929 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:237  700-K-57 Division point, Turlock Main Canal and Ceres Main Canal, Turlock Irrig. Dist. Ceres Main Canal to right. 1929 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:238  700-K-58 Combination checkgate and bridge over County Road. Turnout at right is for lateral on opposite side of roadway. Consolidated Irrigation District. 1929 December
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:239  700-K-59 Large checkgate or drop. Centerville and Kingsbury Canal, Consolidated Irrig. Dist., Height, 16'0" above floor, width, 64'8" inside end walls. 1929 December
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:240  700-K-60 Upstream view of large checkgate or drop gate. Height above floor, 16'0", width, 64'8". Consolidated Irrigation District. 1929 December
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:241  700-K-61 Large checkgate or dropgate. Consolidated Irrigation District. Width inside end walls, 64'8". Height above floor 12'0". 1929 December
Photographer: J.E.C>
Scope and Content Note

Box 60:242  700-K-62 Upstream view of large checkgate, Consolidated Irrigation District. Backfilling not complete. 1929 December
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:243  700-K-63 Large checkgate, Consolidated Irrigation District. Height above floor, 12'0", width inside end walls 64'8", 8 spaces 7'6" wide. 8" piers. 1929 December
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:244  700-K-64 Steel reinforcement in large checkgates. Consolidated Irrigation District. 1929 December
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:245  700-K-65 Untitled 1929 December
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:246  700-K-66 Carpenters setting forms for 12 foot (height) checkgate. Consolidated Irrigation District. 1929 December
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Box 60:247  700-K-67 **Small concrete checkgate. Width 7'8", Consolidated Irrigation District** 1929 December
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:248  700-K-68 **Checkgate, width 25 feet. Fresno Irrigation District. Drainage inlet in side. 1930 January**
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:249  700-K-69 **View showing pier detail of 25 foot checkgate shown in figure 700- K-68 1930 January**
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:250  700-K-70 **Checkgate and turnout. Fresno Irrigation District. 1930 January**
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:251  700-K-71 **Checkgate in lined section of canal at end of flume over natural drainage channel. Fresno Irrigation District. 1930 January**
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:252  700-K-72 **Backfilling around a checkgate and turnout. Fresno Irrigation District. 1930 January**
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:253  700-K-73 **Checkgate with device for holding flashboards showing boards in place. Chain with padlock goes around boards and through wheel. Fresno Irrigation District. 1930 January**
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:254  700-K-74 **Checkgate with device for holding flashboards when not in use. Fresno Irrigation District. 1930 January**
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:255  700-K-75 **Checkgate or drop in lined canal. Modesto Irrigation District 1930 January**
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:256  700-K-76 **Automatic drop or check gate, Turlock Irrigation District (See T.I.D. drawing no. 4-273) 1931 March**
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Box 60:257
700-K-77 Stop gate (check gate) with weir control for lined canals. Turlock Irrigation District. This structure provides 26 feet of weir crest length. (see project 860, p. 131, fig. 86 for drawing). Standard Calco side gate shown at right. (for drawing of this structure see p. 133, fig. 85 of Project 860) 1931 March

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:258
700-K-78 View of stop gate shown in 700-K-77 showing detail of right half. Turlock Irrigation District. 1931 March

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:259
700-K-79 Combination delivery gate and check with high drop. Imperial Irrigation District 1931 April

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:260
700-K-80 Check in lateral with sluicegates on sides. Imperial Irrigation District 1931 April

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:261
700-K-81 Concrete check and delivery gate in small lateral. Imperial Irrigation District. 1931 April

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:262
700-K-82 Wooden check with center sluice gate. Imperial Irrigation District. 1931 April

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:263
700-K-83 Standard type of check for small laterals. Imperial Irrigation District. 1931 April

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:264
700-K-84 Check and delivery gate on Santa Ana Valley Irrigation Company main canal northeast of Santa Ana, Calif. 1931 April

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:265
700-K-85 Repairing wooden check by adding new posts, and raising sides one foot. Imperial Irrigation District. 1931 April

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:266
700-K-86 Combination wooden check and delivery gate. This design is very commonly used. Imperial Irrigation District. 1931 April

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:267
700-K-87 Concrete check gate in small lateral. Imperial Irrigation District. 1931 April

Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Box 60:268  700-K-88 Rubble masonry check built against forms, giving general appearance of reinforced concrete. Imperial Irrigation District. 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:269  700-K-89 Rubble masonry check and drop. Upstream. Imperial Irrigation District. 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:270  700-K-90 Rubble masonry check and drop, downstream view, Imperial Irrigation District. See 700-K-91 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:271  700-K-91 Combination rubble masonry check ad delivery. Calipatria Division Imperial Irrigation District. (See 700-K-90) 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:272  700-K-92 Old type automatic radial gate. undated
   Photographer: 
   Scope and Content Note

Box 60:273  700-K-93 Standard lateral check gate, Imperial Irrigation District 1932 March 1
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:274  700-K-94 Check gate undated
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:275  700-K-95 Fresno Irrigation District. Precast bolted check, size no. 1, width 1'6", depth 2 1/2", length 2', $3.35 f.o.b. yard to farmers in district. Price does not include concrete flash board nor concrete floor which is poured in place in ditch. Hundreds of these checks have been made and sold during the past yr. 1936 May 29
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:276  700-K-96 Check. Power canal. Imperial Valley. 1914 March
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 60:277  700-K-97 Undershot check gate. Imperial Valley 1914
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 60:278  700-K-98 Check gate in the delivery stand at Pump No. 9. 1947 April 3
   Photographer: JBB
   Scope and Content Note
Box 60:279  700-K-99 *Gate used by Imperial Valley Water Co. #5 in its ditches under the new last side Highline Canal. This is a new gate set in the ditch and earth not yet filled in undated*

  Photographer:
  Scope and Content Note

Box 60:280  700-L-a-29 *One of the two stave-pipe pipe lines leading from pumping plant, Westside Irrigation District. 1918 May 02*

  Photographer: Adams, Frank
  Scope and Content Note
  Picture shows test apparatus attached to pipe.

Box 60:281  700-L-a-30 *Double stave-pipe pipe line leading from State Highway west toward the coast range, Westside Irrigation District. 1918 May 02*

  Photographer: Adams, Frank
  Scope and Content Note
  These pipe lines are within one mile of the northerly end of the district along the highway and form the west edge of the district in its northwest corner.

Box 60:282  700-L-b *See: 795-C-b-1. Laying 18" concrete drainage tile on Browning's ranch, Reclamation District 108 near Grimes, Calif. undated*

  Photographer:
  Scope and Content Note

Box 60:283  700-L-b-16 *Pouring Concrete in Construction of Siphon under Bottom of Sacramento River, Anderson-Cottonwood Irrigation District, California. undated*

  Photographer:
  Scope and Content Note
  Similar to Picture No. 113 but looking towards the channel of the Sacramento River which is just beyond the portion of pipe line to be seen in the distance.

Box 60:284  700-L-b-17 *Forms for a Concrete Siphon Under Clear Creek, Anderson-Cottonwood Irrigation District, California. undated*

  Photographer:
  Scope and Content Note

Box 60:285  700-L-b-18 *Concrete pipe trench made with V-crowder undated*

  Photographer: Adams, Frank
  Scope and Content Note

Box 60:286  700-L-b-20 *Underground Distributing System, Pear Orchard, Little Rock Creek Irrigation District, Cal. 1915 June 29*

  Photographer: Hutchins, Wells A.
  Scope and Content Note
  These trees are three or four years old. The orchard is irrigated with furrow which take their water from the standpipes shown here.

Box 60:287  700-L-b-21 *Lower End of Storm Culvert, Beneath Gasburg Flume, Modesto Irrigation District, California 1915 December 5*

  Photographer: Hutchins, Wells A.
  Scope and Content Note
  This storm culvert was constructed some months in advance of the construction of the hydraulic fill designed to take the place of this flume.
Box 60:288  700-L-b-22 **Upper End of Concrete-lined Tunnel, Cascade Irrigation District, Washington. 1916 November 19**
Photographer: Hutchins, Wells A.
Scope and Content Note
This tunnel was lined by the District.

Box 60:289  700-L-b-23 **Lower End of Concrete-lined Tunnel, with Warped Transition to Earth Canal, Cascade Irrigation District, Washington. 1919 November 19**
Photographer: Hutchins, Wells A.
Scope and Content Note

Box 60:290  700-L-b-24 **Automatic Hydrants in the Blanchard Citrus Grove, above Santa Paula, Cal. undated**
Photographer: Adams, Frank
Scope and Content Note
This is also known as the overflow hydrant, the water wasting into a 6 inch pipe in the center of the hydrant after it rises sufficiently high to give the desired pressure above the outlet spouts. This picture also shows the galvanized iron distributor, about 2 inches in diameter, which fastens on the outlet spout on the lower side of the concrete hydrant. These distributors are made with as many holes as desired, one hole being arranged for each furrow. In the case photographed, water was being run both ways from the distributors, but as the young trees were being irrigated with only a single furrow directly above the tree rows, only the lower openings in the distributors were opened.

Box 60:291  700-L-b-25 **Device Used for Placing Concrete Pipe, Orland Project, California. 1914**
Photographer: J.L.K.
Scope and Content Note

Box 60:292  700-L-b-26 (No neg) **A Second Row of Standpipes in the Lieb Walnut Grove, near Cupertino, Santa Clara Valley, California. 1914**
Photographer: Adams, Frank
Scope and Content Note

Box 60:293  700-L-b-27 (No neg) **Testing 12-inch concrete pipe at Herman E. Berg Project, Yuba City. Picture shows sweating of pipe at 5 pounds pressure. 1917 September**
Photographer: M.B.W.
Scope and Content Note

Box 60:294  700-L-b-28 **Testing 12-inch concrete pipe at Herman E. Berg Project, Yuba City. Picture shows sweating of pipe at 40 pounds pressure. 1917 September**
Photographer: M.B.W.
Scope and Content Note

Box 60:295  700-L-b-29 **Adjusting Reinforcement Rings, Main Concrete Discharge Pipe leading from Pumping Plant across the S.P. Railroad. Westside Irrigation District. 1918 May 2**
Photographer: Adams, Frank
Scope and Content Note

Box 60:296  700-L-b-30 **One of the Discharge Pipes leading from pumping plant, Westside Irrigation District, under construction. 1918 May 2**
Photographer: Adams, Frank
Scope and Content Note
Box 60:297  700-L-b-31 **Concrete Pipe Yard of Bent Brothers at Henrietta. 1918 May 6**
Photographer: Adams, Frank
Scope and Content Note
This pipe is manufactured for the Boston land Company, 50,000 feet of pipe being shown in the yard.

Box 60:298  700-L-b-32 **Layout of Rings and Forms, Concrete pipe yard of Bent Brothers at Henrietta. 1918 May 6**
Photographer: Adams, Frank
Scope and Content Note
This pipe is manufactured for the Boston Land Company.

Box 60:299  700-L-b-33 **Van Cleave Construction Company’s concrete pipe plant at Exeter, Cal. 1918 April**
Photographer: F.G.V.
Scope and Content Note
Machine made bell pipe corrugated to add strength.

Box 60:300  700-L-b-34 **Apparatus for covering steel pipe with concrete used by Temescal Water Company at Corona. 1919**
Photographer: Veihmeyer, Frank J.
Scope and Content Note
Pipe is wrapped with a stiff reinforced steel mesh which is held away from the pipe by small truncated pyramids of concrete 1 1/2 inches high. Forms as show in the picture are then put around the pipe 1 1/2 inches from the screen and the concrete poured resulting in a reinforced concrete pipe three inches thick. The cost per foot for 30 inch pipe was about $2.30.

Box 60:301  700-L-b-35 **Linderman concrete pipe plant at Kingsburg. 1918 April**
Photographer: F.G.V.
Scope and Content Note

Box 60:302  700-L-b-40 **K.T. System of delivery- Covina, Calif. 1912 May**
Photographer: F.C.S.
Scope and Content Note
Note the concrete stand pipe coming up from the head ditch. At the top is a set of small galv. tubes, some going into the orchard and one watering the plants within the small concrete curbing. The standpipe serves as a corner to the curbing. Mr. Thomason, President of the K-T Co. of Los Angeles, placing a repair in the gate of the standpipe.

Box 60:303  700-L-b-41 **Trench for concrete pipe line, Covina, Calif. 1912 May**
Photographer: F.C.S.
Scope and Content Note
Showing trench opened for the pipe to serve the orchard at the right. A stand pipe will be erected at the head of each row of trees and small galvanized tubes deliver the water after being regulated by a K-T Valve in the stand pipe.

Box 60:304  700-L-b-42 **Main pipe line of Del Monte Irrigation Co. crossing a swale near Claremont Calif. Pipe is buried except at this point, undated**
Photographer: Tait, C.E.
Scope and Content Note
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<td>Photographer: Tait, C.E.</td>
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<td>Photographer:</td>
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<th>700-L-b-45 Orland Project, U.S. Reclamation Service, Orland, Calif. 1914 November</th>
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<td>Photographer:</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Photographer: F.W.S.</td>
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<td>Photographer: F.W.S.</td>
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<td>Photographer: F.W.S.</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Photographer: Tait, C.E.</td>
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<td>This carries water from wells in Perris Valley to Corona.</td>
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Box 60:316  700-L-b-55 *Linderman's concrete pipe plant at Kingsburg, using pneumatic hammer for tamping concrete in forms. 1918 April*
   Photographer: F.G.V.
   Scope and Content Note

Box 60:317  700-L-b-56 *Wooden flume discarded for Concrete Underground System and Standpipes, Southern California. 1911 July*
   Photographer: Tait, C.E.
   Scope and Content Note

Box 60:318  700-L-b-57 *Carriage removing concrete pipe from pipe machine for seasoning. Delhi State Colony. 1920 August*
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:319  700-L-b-58 *Concrete Pipe Machine, Delhi State Colony. 1920 August*
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:320  700-L-b-59 *Interior of concrete pipe Factory, Delhi State Colony. 1920 August*
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:321  700-L-b-60 *Concrete Pipe Yard Durham State Land Settlement Colony. 1919 September*
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:322  700-L-b-61 *Making Hand Tamped Pipe, Durham State Land Settlement 1919 September*
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:323  700-L-b-62 *Laying Concrete Pipe. undated*
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 60:324  700-L-b-63 *Laying Concrete Irrigation Pipe in Citrus Orchard. undated*
   Photographer: 
   Scope and Content Note

Box 60:325  700-L-b-64 *Concrete Pipe Installation on Camino Ridge, El Dorado County. 1919 August*
   Photographer: Adams, Frank
   Scope and Content Note

Box 60:326  700-L-b-65 *Setting forms and pouring concrete for pipe line leading to syphon under Sacramento River. Anderson-Cottonwood Irrigation District. undated*
   Photographer: Adams, Frank
   Scope and Content Note
   Proposed syphon under river not built but water carried across on bridge.
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*Photographer: Tait, C.E.*  
*Scope and Content Note*  
Lima beans are planted between the lemon trees. |
| 60:328 | 700-L-b-67 Concrete pipe installation. Backfilling trench with V crowder 1914  
*Photographer: S.H.B.*  
*Scope and Content Note* |
| 60:329 | 700-L-b-68 Concrete pipe installation, University Farm, Davis. Irrigation tract 1914  
*Photographer: S.H.B.*  
*Scope and Content Note* |
| 60:330 | 700-L-b-69 Laying 12" Concrete pipe line, Irrigation tract, University Farm, Davis. 1914  
*Photographer: S.H.B.*  
*Scope and Content Note* |
| 60:331 | 700-L-b-70 Newly set pressure gate - Delhi Experimental tract, 1921 in concrete pipe line 1921  
*Photographer: Adams, Frank*  
*Scope and Content Note* |
| 60:332 | 700-L-b-71 Laying 10' concrete pipe. Pollard Brothers, Fresno 1929 May 10  
*Photographer: Christiansen, Jerald Emmet*  
*Scope and Content Note* |
| 60:333 | 700-L-b-72 Trench and forms for 36 inch continuous concrete pipe. 1930 February  
*Photographer: Christiansen, Jerald Emmet*  
*Scope and Content Note* |
| 60:334 | 700-L-b-73 Forms for 36 inch continuous concrete pipe line. L.W. Terrell, Contractor, Turlock 1930 February  
*Photographer: Christiansen, Jerald Emmet*  
*Scope and Content Note*  
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| 60:335 | 700-L-b-74 Forming lower half of 36-inch continuous concrete pipe. L.W. Terrell Contractor, Turlock 1930 February  
*Photographer: Christiansen, Jerald Emmet*  
*Scope and Content Note* |
| 60:336 | 700-L-b-75 Pouring upper half of 36 inch continuous concrete pipe. L. W. Terrell, Contractor, Turlock 1930 February  
*Photographer: Christiansen, Jerald Emmet*  
*Scope and Content Note* |
| 60:337 | 700-L-b-76 Forming upper half of 36 inch continuous concrete pipe. L. W. Terrell, Contractor, Turlock 1930 February  
*Photographer: Christiansen, Jerald Emmet*  
*Scope and Content Note* |
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700-L-b-77 Pouring lower half of 30 inch continuous concrete pipe. Lloyd W. Terrell, contractor, Turlock 1930 February
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 60:339
700-L-b-78 Constructing 30 inch continuous pipe. L. W. Terrell, Contractor, Turlock 1930 February
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 60:340
700-L-b-79 Template used in shaping bottom of trench for monolithic concrete pipe. Turlock Irrigation District 1931 March
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 60:341
700-L-b-80 Display of concrete pipe and concrete pipe field gates. Imperial Valley Concrete Company, El Centro, California. 1931 April
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 60:342
700-L-b-81 Newly laid 16 foot concrete aqueduct pipe from Euclid Avenue crossing, Metropolitan Water District. Ontario, Calif. (See preceding view). 1936 August 31
  Photographer: Adams, Frank
  Scope and Content Note

Box 60:343
700-L-b-82 End of newly laid Metropolitan Water District aqueduct pipe under Euclid Avenue, Ontario, Calif. 1936 August 31
  Photographer: Adams, Frank
  Scope and Content Note

Box 60:344
700-L-b-83 Irrigation lateral, Oakdale Irrigation District being replaced with 24" concrete pipe. Shows growth of water grass and other water plants in canal which is one reason for changing to concrete pipe. Pipe constructed and laid by Oakdale Irrigation District, W.P.A. Project. cooperative with owner of land. 1938 October 18
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 60:345
700-L-b-84 (Project 860) Pipe No. 60, (lateral A). Bottom poured, top form in place, showing bracing. Sloppy mix has just been poured along sides. Ready to finish top shell with dry mix. 1938 October 18
  Photographer: A. Molenaar
  Scope and Content Note

Box 60:346
700-L-b-85 Project 860: Concrete pressure stands used in Delhi District. Galvanized iron surge stands on parallel concrete pipes. Center pipe serves as return to well pit. Delhi District. 1938 October 18
  Photographer: A. Molenaar
  Scope and Content Note

Box 60:347
700-L-b-86 6-way structure, Delhi District. Another type of overflow stand in Delhi District. 1938 October 18
  Photographer: A. Molenaar
  Scope and Content Note
Box 60:348 700-L-b-87 Placing cement covering around old steel pipes. Sweetwater Water Co. 1919 January
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 60:349 700-L-b-88(1) and (2) (3) Gated surface pipe distributing water to furrows. Citrus orchard, Ventura County. Gould Denison, owner. 1939 May
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:350 700-L-b-89 (1) Distributing water from gated surface pipe to furrow. Shows use of burlap sacks for preventing erosion at head of furrow. Southern California. Gould Denison, Ventura. (2) Shows float device for indicating head on surface pipe to aid in regulation of water to furrows. 1939 June
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:351 700-L-b-90 Excavating trench for 12-inch concrete pipe line. Wolfskill Experimental Orchard, Winters, Calif. 1938 November
Photographer: J.E. Christiansen
Scope and Content Note
Similar view also in negative envelope.

Box 60:352 700-L-b-91 Series of 16 pictures showing installation of alfalfa valve on concrete pipe line. Wolfskill Experimental Orchard, Winters. 1938 Fall
Photographer: J.E. Christiansen
Scope and Content Note

Box 60:353 700-L-b-92 Shows bottom section of pipe in place and extent to which foundation extends around stand. Construction of stand pipes at pump. Concrete pipe system, Wolfskill Experimental Orchard, Winters, Calif. 1938 November
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Similar view in negative envelope.

Box 60:354 700-L-b-93a, b Installing valve on concrete pipe riser, on 12” concrete pipe line. Wolfskill Experimental Orchard, Winters, Calif. 1938 November
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
b. Completed riser and valve.

Box 60:355 700-L-b-94 a, b Concrete pipe line, Wolfskill Experimental Orchard, Winters. 1938 November
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:356 700-L-b-95a, b Pumping plant showing arrangement of serge chamber and valves for connection to concrete pipe line, Soledad Land Company, Soledad, Calif. Howard D. Peters, Engineer, Salinas 1940 May
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Box 60:357  700-L-b-96 Digging trench for concrete pipe line, Agronomy Tract, University Farm. Pipe furnished and laid by United Concrete Pipe Co., Woodland, Calif., G.L. Black in charge. 1940 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:358  700-L-b-97 Laying 14” pipe, Agronomy Tract, University Farm. 1940 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:359  700-L-b-98 Laying 14” concrete pipeline, Agronomy Tract, University Farm. Workman in background is pipe layer who places a mortar on joints and butts them together in the trench. He is followed by the bander (man in foreground) who works about 5 pipe lengths behind the layer and places a mortar band about 4” wide and 1/2” thick around each joint. Pipe is immediately backfilled to a depth of about 6” over to the top of the pipe and is shown in the immediate foreground. 1940 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:360  700-L-b-99 Laying concrete pipe, Agronomy Tract, and construction of hub end gate in line. As the water may be run to this line from either end, a 14” open stand was constructed on each side of the gate valve. Opening in the pipe immediately in front of gate is for connection to stand. undated
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:361  700-L-b-100 Same as 700-L-b-99 showing backfilling around gate and over the pipe. Note sack placed over opening in pipe to prevent circulation of air. 1940 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:362  700-L-b-101 Completed gate structure shown in pictures 700-L-b-99 and 100. Stand is placed on each side of gate since water may flow to this structure from either direction. 1940 November
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:363  700-L-b-103, 103a. 103, 103a 1940 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   103: This and following views show progressive steps in construction of lateral connection to 14” concrete pipe line, Agronomy Tract. This lateral connection was made with one joint of 18” concrete pipe line of side. The 18” pipe is large enough so that the 14” pipe telescopes inside of it. This view shows workman placing the 18” pipe length in position in the trench. 103a: Shows 18” pipe length after being blocked into position.

Box 60:364  700-L-b-103b, c 103b, 103c 1940 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   103b: Laying 14” pipe making connection with 18” pipe line. (Other views in negative file)
   103c: This shows progress of connection after 14” pipe has been laid to connection with 18” pipe line.
Box 60:365 700-L-b-103d, e 103d, 103e 1940 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
103d: Pipe layer placing mortar outside of pipe making connection between 14" and 18" sections. 103e: Shows pipe layer placing mortar joint on the inside of pipe.

Box 60:366 700-L-b-103f, g 103f, 103g 1940 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
103f: This view shows short length of 12" pipe in place between 14" line and gate on lateral. 103g: Shows 12" Cajon gate (manufactured) by Snow Irrig. Supply Co.). These gates were used exclusively on this job, and were installed 1/2 pipe length (18") from all structures.

Box 60:367 700-L-b-103h, i 103h, 103i 1940 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
103h: Shows structure after gate has been blocked into place on short length of 12" pipe. 103i: Shows appearance of connection between 14" and 18" pipe after final band has been placed around joint.

Box 60:368 700-L-b-103j, k, l 103j, 103k, 103l 1940 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
103j: Shows appearance of structure after mortar bands have been placed around pipe at connection of gate. 103k: Same after initial backfilling has been placed over pipe. Stand in immediate foreground is present outlet to ditch. Planned that this 12" lateral will be extended at a later date.

Box 60:369 700-L-b-103m, n 103m, 103n 1940 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
103m: After mortar joints have been cured for 24 hours, the lower section of 14" pipe stand is placed over hole cut in pipe. Temporary pipe fill is then placed around structure. About a week later, this temporary fill is removed and pipe is cleaned preparatory to placing concrete block around the joint to serve as reinforcement and to increase foundation area. 103n: Shows appearance of structure after concrete block has been poured. Concrete block stands to about 4" over top of pipe and completely embeds the pipe section.

Box 60:370 700-L-b-103o Stand shown in pictures L-b-103 - 103n when completed. Note 12" riser in 12" branch line. 1940 November
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:371 700-L-b-104 Construction of a similar type shown in preceding pictures (700-L-b-103-103n) except that 13" gate is placed in main line. 1940 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:372 700-L-b-105 Same structure as 700-L-b-104 showing workman fitting a lower section of 14" standpipe. 1940 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Box 60:373 700-L-b-106a, b  
Completed structure shown in 700-L-b-104 and 105.  
Detail of the gate shown at right on a.  
Trench was excavated around gate to repair leak.  
Pipe tested for leakage.  
1940 November  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:374 700-L-b-107a, b **107a, 107b 1940 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Shows an alternate type of stand used where lateral was already in place.  
The 12" pipe lateral to which the 14" main was to be connected was not buried as deeply as the 14" pipe and, therefore, was impossible to make a suitable connection by the method shown in pictures 700-L-b-103 -- 103n.  
Therefore a reinforced pipe section was placed on end and a concrete formation poured around the base.  
A 6" plug and a 14" hole had previously been cast in one end of the 30" pipe section to form opening for 14" riser.  
First view shows the 30" pipe section with holes cut in pipe for connection to pipe lines.  
Second view shows section after being placed in position in the trench and plugged up ready for pouring of concrete base.  
Note: Completed structure appears same as 700-L-b-106a.

Box 60:375 700-L-b-109a, b **Different stages in the construction of pipe structure which connects with 24" culvert crossing new State Highway. View a shows trench prepared for 36" reinforced pipe stand. View b shows stand with 4 holes for connection to 14" pipe line, one 12" lateral, and 14" pipe connection to corrugated culvert. 1940 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:376 700-L-b-110a, b **110a, 110b 1940 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

110a: Pipe section after being placed in trench and blocked up to proper elevation.  
110b: Same as a after reinforcing bars have been placed for concrete foundation.

Box 60:377 700-L-b-111a, b **111a, 111b 1940 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

111a: The day following the pouring of the foundation, the pipe lines are connected to the stand.  
Workman making mortar joint between stand and gate.  
Structure has gates on all 4 sides of stand.  
Hence water may enter from 2 lines and discharge from either of the other pipes.  
111b: Same view as a after mortar joint is completed.

Box 60:378 700-L-b-112a, b **General views showing construction of stand described in 700-L-b-107a,b 1940 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:379 700-L-b-113  
**Shows how 14" connection was made with 24" culvert. Culvert was plugged full with broken pieces of concrete pipe and the spaces completely filled with concrete mortar. The following day another heavy layer of concrete mortar was added and pipe connection extended to stand. 1940 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note
| Box 60:380 | 700-L-b-114 General view of stand after initial backfilling had been placed. 1940 August  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:381 | 700-L-b-115 Shows the construction of 14" pipe stand. Workman placing mortar band on upper joint. 1940 August  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:382 | 700-L-b-115a Completed structure shown on pictures 700-L-b-109-115 1940 November  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:383 | 700-L-b-116 Construction of 36" open stand at opposite end of the 24" culvert and connection with existing 16" concrete pipe line. 1940 August  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:384 | 700-L-b-116a Completed structure shown on picture 700-L-b-116. 1940 November  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:385 | 700-L-b-117a, b 700-L-b-117a,b,c,d pictures are progressive steps in the installation of 8" alfalfa valve. a shows riser after connection with pipe line. b shows the placing of the valve on top of riser after earth has been backfilled around riser to within 6" of the top. 1940 August  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:386 | 700-L-b-117c, d 700-L-b-117c shows workman smoothing mortar in top of valve with brush. 700-L-b-117d shows him carefully removing any mortar adhering to valve fitting with his fingers. 1940 August  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:387 | 700-L-b-118 Completed 30" concrete pipe stand at future location for well and pump. Structure is centrally located along 14" pipe line provided with gates on each side of the stand. 1940 November  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:388 | 700-L-b-119 Concrete division box and measuring weir at Pump No. 1, Univ. farm. This structure serves to distribute water into 5 pipe lines varying from 8 to 12" in size. 1940 November  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:389 | 700-L-b-120 Wire wrapping concrete pipe, Lewistown Pipe Co., Indiana. See negative file for 7 additional pictures showing various phases of the construction and testing of this pipe. 1940 Fall  
Scope and Content Note |
Box 60:390  
700-L-b-121a, b 121a, 121b 1941 March  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
121a: Valley Concrete Pipe Co., Yuba City, Mar. 1941. Wire wrapping 12” plain heavy wall pipe, 30” length with 15 gauge galvanized gamma spring wire spaced 3/4” apart, specimen No. 28. Pipe was tested at Bakersfield March 22 and failed at an ultimate strength of 12,300 pounds per linear ft. b shows how end of wire was fastened by soldering. About four wraps made at each end of pipe. Wires close together and soldered at 4 or 5 points around pipe.

Box 60:391  
700-L-b-122a,b,c Valley Concrete Pipe Co., Yuba City, 3/5/41. Testing 8” plain concrete irrigation pipe wrapped with 16 gauge gamma spring wire, 1/4” spacing, at 155,000 p.s.i. (specimen no. 18). Pipe had been tested hydrostatically, failing at 640 p.s.i. Did not fail in 3-edge bearing test at maximum load of 44,000 lbs. equal to 17,600 lbs. per linear foot. 1941 March 5  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:392  
700-L-b-123a,b Valley Concrete Pipe Co., Yuba City, Mar. 19, 1941. Testing 8” plain irrigation pipe wire wrapped with No. 16 gauge gamma spring wire, 3/4” spacing, at 170,000 p.s.i., specimen no. 21. failure occurred at a pressure of 360 p.s.i. 1941 March 19  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:393  
700-L-b-124a,b Valley Concrete Pipe Co., Yuba City, Mar. 19, 1941. 1941 March 19  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
a: Hydrostatic tester for 8” concrete pipe consists of 1 1/4” cold rolled steel shaft with cup-shaped rubber gaskets supported by cast iron and steel bulk heads. b: Home-made pump for applying pressure for 8-inch hydrostatic tester. Has 3/4” copper tube cylinder. Capable of producing pressure of about 900 p.s.i.

Box 60:394  
700-L-b-125a,b,c Valley Concrete Pipe Co. Testing strength of 18” plain concrete culvert pipe held together with 4, 1 1/8” bolts. Mortar joint, but no band. Unit supported on 4” head walls 73” apart center to center and was loaded at 2 points 3” to each side of joint. failed at a load of 41,300 lbs. Bending moment = 57,600 pound feet. When bolts were removed, the pipe collapsed. Length of similar pipe tested by 3-edge method failed at 11,000 pounds load. 1941 March 19  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:395  
700-L-b-126a,b Valley Concrete Pipe Co., Yuba City, Mar. 19, 1941. 1941 March 19  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
a: Plain (8") concrete pipe wrapped with 16 gauge gamma spring wire, 1/4" spacing, at 170,000 p.s.i. Specimen No. 25. Pipe tested hydrostatically at Bakersfield, Mar. 22. failed at 660 p.s.i. Withstood load of 40,000 pounds without failure. b: Appearance of wrapped pipe after being coated with concrete mortar. Specimen No. 24. Pipe wrapped with 14 gauge gamma spring wire, 3/4” spacing. When tested hydrostatically at Bakersfield, Mar. 22, it failed at 400 p.s.i. and failed the load test at 265000 lbs. or 10,600 lbs. per linear foot.
Box 60:396

700-L-b-127a,b,c Valley Concrete Pipe Co., Yuba City, placing irrigation pipe, 36" lengths by Packerhead method. 1941 March 19

Photographer: Christiansen, Jerald Emmet

Scope and Content Note
a: Shows concrete mixer and loading hopper to which the sand and gravel are placed for elevating into mixer. b: Another view, north side of plant. c: Shows loading hopper in elevated position dumping aggregate into mixer.

Box 60:397

700-L-b-127d,e Valley Concrete Pipe Co., Yuba City. 1941 March 19

Photographer: Christiansen, Jerald Emmet

Scope and Content Note
d: Packerhead pipe machine in operation making 6" pipe. e: Wheel cart for moving pipe from machine to curing yard ready to pick up a length of pipe.

Box 60:398

700-L-b-127f,g,h Valley Concrete Pipe Co., Yuba City. 1941 March 19

Photographer: Christiansen, Jerald Emmet

Scope and Content Note
f: Stripping forms from pipe at curing yards. g: Returning to mixer with empty form. h: Close-up of form for 6" pipe.

Box 60:399

700-L-b-128a,b Valley Concrete Pipe Co., Yuba City. Testing 8" plain concrete irrigation pipe wrapped with no. 16 gauge gamma spring wire, 3/4" spacing. (Spec. no. 21) Under tension of 170,000 p.s.i. This specimen had previously been tested hydrostatically, failure occurring at a pressure of 360 p.s.i. Ultimate load, 3-edge bearing test, 9400 lbs. per linear foot. 1941 March 28

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 60:400

700-L-b-129a,b Valley Concrete Pipe Co., Yuba City. Testing plain 6" concrete pipe, 36" length as a beam. Bottom supports were 33 1/2" apart, center to center. Pipe measured 7 13/16" O.D. and 5 15/16" I.D. failure occurred at a load of 7,100 pounds. 1941 March 28

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 60:401

700-L-b-130a,b Valley Concrete Pipe Co., Yuba City. Testing 5" porous concrete drain tile by 3-edge bearing method. failure occurred at a total load of 9,800 lbs. or 3,920 pounds per linear foot. 1941 March 28

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 60:402

700-L-b-131a,b Valley Concrete Pipe Co., Yuba City. Testing 18" concrete culvert pipe as a beam to determine strength of joint. Bottom supports were 70" apart. Load was applied at two points, one on each side of the joint, 13 1/2" apart. This pipe was first tested on March 19, but did not fail under load of 24,000 pounds. It was again tested on March 28 and broke at a load of 24,200 pounds, equivalent to a bending moment of 28,500 pound feet. 1941 March 28

Photographer: Christiansen, Jerald Emmet

Scope and Content Note
Box 60:403  700-L-b-132a,b  Valley Concrete Pipe Co., Yuba City. Testing joint between 18” concrete pipe and 18” corrugated pipe. Supports were 7 1/2” apart and load was applied at center of joint. failure occurred at a load of 12,000 pounds. Bending moment, 17,800 pound feet. 1941 March 28

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:404  700-L-b-133a,b  Valley Concrete Pipe Co., Yuba City. 2 lengths of 15” plain heavy wall (2 1/4”) concrete pipe with Valco expansion joint being tested hydrostatically. Pipe held together with four 1 1/8” bolts. failure occurred at 140 p.s.i. Pipe at left was 15” reinforced culvert pipe, 2 1/4” wall. When tested hydrostatically it was found that the length of pipe had a initial crack and leaked so that the test was unsuccessful. 1941 March 28

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:405  700-L-b-134  Pipe testing demonstration at meeting of California Associated Concrete Pipe Manufacturers, March 22, 1941. Both plain and wire-wrapped pipe were tested hydrostatically and by the 3-edge bearing load test. 1941 March 22

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:406  700-L-b-135a,b,c  Load testing machine for concrete pipe up to 8-foot lengths. Concrete Conduit Company, Colton, California. June 20, 1941 1941 June 20

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:407  700-L-b-136a,b,c  Automatic overflow stand for sidehill irrigation. Cost 7.50. Concrete Conduit Company, Colton, California June 20, 1941 1941 June 20

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:408  700-L-b-137a,b  (a) Putting pipe from master cylinder. 30” centrifugal pipe. Concrete Conduit Company Colton; (b) Making 30” centrifugal pipe. Concrete Conduit Company, Colton, California. June, 1941 1941 June 20

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:409  700-L-b-138a,b  (a) Shows reinforcing steel in form. Centrifugal pipe. Concrete Conduit Company, Colton, Calif; (b) Forms for centrifugal pipe - Concrete Conduit Company, Colton, California. June 20, 1941 1941 June 20

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:410  700-L-b-139a,b  (a) Capped stand with 4 Diamond distributor gates. (b) Cont’d near Riverside. 1941 June 20

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:411  700-L-b-140  Common type of orchard distributor stand. Orchard valve set low in stand and flow to furrows controlled by furrow gates. Near Orange. 1941 June 24

Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Box 60:412  700-L-b-141  Structure for admitting water from one pipe line into a lateral line. Show orchard valve. Near Orange, California. 1941 June 24
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:413  700-L-b-142a,b  Part of Concrete pipe yard. Peerless Concrete Pipe Company, Santa Ana (b) curing concrete pipe in jackets. Peerless concrete Pipe Company, Santa Ana 1941 June 24
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:414  700-L-b-142c  Capped stand made by Peerless Concrete Pipe Company. Near Orange. 1941 June 24
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:415  700-L-b-143a,b,c  Pipe exhibits at National Cement Pipe Company Yard. Santa Ana 1941 June 24
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:416  700-L-b-144a,b  Construction of 24" pipe line, Animal Husbandry area, Univ. farm, Davis 1942 March 28
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   a. Digging trench about 42" wide, 4' deep.  b. Front view of trenching machine. Man in foreground is leveling ground for trencher.

Box 60:417  700-L-b-144c,d  Construction of 24" pipe line, Animal Husbandry area, Univ. farm, Davis, California.  c. View along trench. Note where banks have caved in.  d. Final trimming of trench to grade is done by hand. Trench in foreground has not been trimmed. 1942 March 28
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 60:418  700-L-b-144e,f  Construction of 24" pipe line, Animal Husbandry area, University Farm, Davis. 1942 March 28
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   e. Final trench marked off to receive pipe properly spaced along trench.  f. Lowering 3-foot lengths of 24-inch pipe into trench.

Box 60:419  700-L-b-144g,h  Construction of 24" pipe line, Animal Husbandry area, Univ. farm, Davis. 1942 March 28
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   g. Laying pipe. Details of pipe laying shown in following views of series.  h. Earth is scooped out under tongue end of last length of pipe laid.
Box 60:420  700-L-b-144i,j Construction of 24” pipe line, Animal Husbandry area, University Farm, Davis. 1942 March 28
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
i. Tongue end is then washed with wet brush. j. Mortar is rubbed on tongue end of pipe and a trowel full placed under bottom edge.

Box 60:421  700-L-b-144k,l Construction of 24” pipe line, Animal Husbandry area, Univ. farm, Davis. 1942 March 28
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
k. Mortar is then placed in bell end of standing pipe. l. Pipe is laid on side and bucked tightly into position.

Box 60:422  700-L-b-144m,n Construction of 24” pipe line, Animal Husbandry area, Univ. farm, 1942 March 28
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
m. Mortar band is then placed around joint by bander who sits straddle the pipe about 2 lengths back of layer. n. Band is trowelled smooth with steel trowel.

Box 60:423  700-L-b-144o,p Construction of 24” pipe line, Animal Husbandry area, University Farm, Davis. 1942 March 28
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
o. Trench is immediately backfilled with loose moist earth. p. Close-up of backfilling.

Box 60:424  700-L-b-144q,r Construction of 24” pipe line, Animal Husbandry area, University Farm, Davis. 1942 March 28
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
q. Mortar band is then placed around joint by bander who sits straddle the pipe about 2 lengths back of layer. r. Band is trowelled smooth with steel trowel.

Box 60:425  700-L-b-145 Laying 16” pipeline for well No. 9 along west end of farm. 1945 Fall
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 60:426  700-L-b-146 30-inch stand pipe. University Farm, Davis. 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note

Box 60:427  700-L-b-147 Stand with Orchard valves and 4 furrow gates. 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note

Box 60:428  700-L-b-148 (No neg) Double relief stand with cajon gate between. Univ. farm, Davis. 1947 April 16
Photographer: Kaiser, W.G.
Scope and Content Note

Box 60:429  700-L-b-149 Open 14-inch alfalfa valve. University Farm, Davis. 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note
No negative
Box 60:430  700-L-b-150  Pump-house and main relief stand. Wolfskill Orchard. University of California Winters. 1947 April  
Photographer: Kaiser, W.G.  
Scope and Content Note

Box 60:431  700-L-b-151  Relief stand and control valves (Cajon) Wolfskill Orchard, Winters. 1947 April  
Photographer: Kaiser, W.G.  
Scope and Content Note

Box 60:432  700-L-b-152  Row of orchard stands. Orange grove in Orange County, California. 1947 April  
Photographer: Kaiser, W.G.  
Scope and Content Note

Box 60:433  700-L-b-153  Stand pipe with 4 Cajon control valves. University Farm, Davis. 1947 April  
Photographer: Kaiser, W.G.  
Scope and Content Note

Box 60:434  700-L-b-154  Young orchard being irrigated near Glendora, California. Two gates in orchard stand open and two are closed. 1947 April  
Photographer: Kaiser, W.G.  
Scope and Content Note

Box 60:435  700-L-b-155  Walnut Grove Fred B. Brocca Ranch, El Rio, California. 1947 April  
Photographer: Kaiser, W.G.  
Scope and Content Note

Box 60:436  700-L-b-156  Strip check irrigation of oranges. 1947 April  
Photographer: Kaiser, W.G.  
Scope and Content Note

Box 60:437  700-L-b-157  Fred B. Brocca Ranch, El Rio, California. 1947 April  
Photographer: Kaiser, W.G.  
Scope and Content Note

Box 60:438  700-L-b-158  Closing 14-inch alfalfa valve. University Farm, Davis. 1947 April  
Photographer: W.G.K.  
Scope and Content Note

Box 60:439  700-L-b-159  Capped pump stand with metal relief pipe. Two way controls. Stems of slide gates through stripping boxes. University Farm, Davis. 1947 April  
Photographer: Kaiser, W.G.  
Scope and Content Note

Box 60:440  700-L-b-160  Irrigating walnut grove. Fred B. Brocca Ranch, El Rio., Calif. 1947 April  
Photographer: Kaiser, W.G.  
Scope and Content Note
700-L-b-161 Gated distribution box used in connection with concrete pipe in irrigation walnut grove. Fred B. Brocca Ranch, El Rio, Calif. 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note

700-L-b-162 Orchard stand distributing water to four furrow. Oranges in Ventura County, California. 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note

700-L-b-163 New vineyard. DeGeorgio farms, Arvin, California 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note

700-L-b-164 Ridge system of carrot irrigation. El Rio, California. 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note

700-L-b-165 A general view of a 12" concrete pipe riser which is to be used in the construction of a distributing stand. The pipe has been shaped to saddle over the supply line. Job near Wheeler Ridge in Kern County. Pipe manufactured by Stroud-Seabrook, Inc., Bakersfield. 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note

700-L-b-166 Lowering the distributing riser over the hole in the supply line. Job near Wheeler Ridge in Kern County. 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note

700-L-b-167 Using a level to make certain that the distributing riser is plumb and level. Job near Wheeler Ridge in Kern County. 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note

700-L-b-168 Wetting the area at the junction of the pipe line and the riser, preparatory to placing mortar. Job near Wheeler Ridge, Kern County. 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note

700-L-b-169 Placing the mortar at the junction of the distributing pipe and supply line. Job near Wheeler Ridge, Kern County. 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note

700-L-b-170 Smoothing off the mortar with a brush. Job near wheeler Ridge, Kern County. 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note

700-L-b-171 Preparing the mortar. Job near Wheeler Ridge, Kern County. 1947 April
Photographer: Kaiser, W.G.
Scope and Content Note
Box 60:452  700-L-b-172 General view showing the laying of concrete pipe line. Job near Wheeler Ridge, Kern County. 1947 April
   Photographer: Kaiser, W.G.
   Scope and Content Note

Box 60:453  700-L-b-173 Same as 700-L-b-172, except taken from the opposite direction. 1947 April
   Photographer: Kaiser, W.G.
   Scope and Content Note

Box 60:454  700-L-b-174 Filling the groove end of the pipe with Portland cement mortar. Note workman's hands are protected by rubber gloves. Job near Wheeler Ridge, Kern County. 1947 April
   Photographer: Kaiser, W.G.
   Scope and Content Note

Box 60:455  700-L-b-175 Wetting joint between sections of pipe, preparatory to banding with mortar. Job near Wheeler Ridge, Kern County. 1947 April
   Photographer: Kaiser, W.G.
   Scope and Content Note

Box 60:456  700-L-b-176 Placing the band. Job near Wheeler Ridge, Kern County. 1947 April
   Photographer: Kaiser, W.G.
   Scope and Content Note

Box 60:457  700-L-b-177 Placing a waterproofing membrane over the band to protect it against damage when refilling the trench. Job near Wheeler Ridge. 1947 April
   Photographer: Kaiser, W.G.
   Scope and Content Note

Box 60:458  700-L-b-178 Placing an alfalfa stand in the distributing stand. Job near Wheeler Ridge, Kern County. 1947 April
   Photographer: Kaiser, W.G.
   Scope and Content Note

Box 60:459  700-L-b-179 Laying and backfilling irrigation concrete pipe line, Solano Tract. Davis Campus 1948 September
   Photographer: Marr & Scott
   Scope and Content Note

Box 60:460  700-L-b-180 Bottom joint of stand pipe in place ready to be leveled up, cemented on bottom and joined with pipe line. Irrigation Pipe Line, Solano Tract, Davis Campus 1948 September
   Photographer: Marr & Scott
   Scope and Content Note
   Slide no. 1485-D

Box 60:461  700-L-b-181 When the bottom joint of a concrete pipe line stand pipe is still green the openings for pipe lines are heavily scored so they can easily be knocked out. This picture shows a hole in the side of a stand pipe being completed. Solano Tract, Davis Campus. 1948 September
   Photographer: Marr & Scott
   Scope and Content Note
   Slide no. 1486-D
Box 60:462
700-L-b-182 The bottom section of a pipe line stand being lowered into place. Note holes for entrance of pipe lines. Irrigation Pipe Line, Solano Tract, Davis Campus, 1948 September
   Photographer: Marr & Scott
   Scope and Content Note
   Slide no. 1487-D

Box 60:463
700-L-b-183 Concrete pipe line with risers and alfalfa valves mounted in place and trench ready to be backfilled. Irrigation Pipe Line, Solano Tract, Davis Campus 1948 September
   Photographer: Marr & Scott
   Scope and Content Note

Box 60:464
700-L-b-184 Preparing ends of concrete pipe with water and cement plaster preparatory to joining them. Pipe line on Solano Tract, Davis Campus 1948 September
   Photographer: Marr & Scott
   Scope and Content Note
   Slide no. 1488-D

Box 60:465
700-L-b-185 Joining two joints of concrete pipe line. Concrete Pipe line, Solano Tract, Davis Campus 1948 September
   Photographer: Marr & Scott
   Scope and Content Note
   Slide no. 1489-D

Box 60:466
700-L-b-186 Operations of smoothing inside of joint; placing band of cement plaster on outside of joint; and placing paper protector around a completed bonded joint while laying concrete pipe line. Solano Tract, Davis Campus 1948 September
   Photographer: Marr & Scott
   Scope and Content Note
   Slide no. 1490-D

Box 60:467
700-L-b-187a,b,c Irrigation pipe line trench showing pipe laying gang in action at far end. Solano Tract, Davis Campus. 1948 February
   Photographer: Marr
   Scope and Content Note

Box 60:468
700-L-b-188 Lower section of stand showing how connection with pipe line is made. Irrigation concrete pipe line, Davis Campus. 1948 February
   Photographer: Marr
   Scope and Content Note

Box 60:469
700-L-b-189a,b Trenching machine in operation. This trencher excavates 20' of trench per minute. The contract price for the Solano Tract for excavating the trenches was 7 cents per foot. Excavating trench for 16 inch irrigation pipe line, Davis Campus. 1948 September
   Photographer: Marr
   Scope and Content Note
Box 60:470  700-L-b-190a,b Trenching machine in operation. Excavating trench for 16 inch irrigation pipe line, Davis Campus. 1948 February
  Photographer: Marr

Scope and Content Note

Box 60:471  700-L-b-191 Stand pipe for concrete pipe line distribution system University Farm. 1950 September
  Photographer: Marr, J.C.

Scope and Content Note

Box 60:472  700-L-b-192 Trenching for irrigation concrete pipe line, Armstrong Tract, University Farm, Davis 1948
  Photographer: Marr, J.C.

Scope and Content Note

Box 60:473  700-L-b-193 Trenching for irrigation concrete pipe line, Armstrong Tract, University Farm, Davis 1948
  Photographer: Marr, J.C.

Scope and Content Note

Box 60:474  700-L-b-194 8" Concrete pipe made and laid on University Farm 1912 Summer
  Photographer: Scope and Content Note

Box 60:475  700-L-b-195 Handmade concrete pipe undated
  Photographer: Scope and Content Note

Box 60:476  700-L-b-195 Handmade concrete pipe undated
  Photographer: Scope and Content Note

Box 60:477  700-L-b-196 Handmade concrete pipe undated
  Photographer: Scope and Content Note

Box 60:478  700-L-b-197 Handmade concrete pipe undated
  Photographer: Scope and Content Note

Box 60:479  700-L-b-197 Handmade concrete pipe undated
  Photographer: Scope and Content Note

Box 60:480  700-L-b-198 Handmade concrete pipe undated
  Photographer: Scope and Content Note
Box 60:481  700-L-c-16  Cast Iron Pipe for Berry Irrigation, Montebello, California. 1916 January 11
Photographer: Hutchins, Wells A.
Scope and Content Note
Water is supplied to berry fields, gardens, and nurseries in this section through this pipe from underground mains. The quantities used are determined by meter readings. The valve shown in the picture is for regulating the flow in the lateral pipes. Water is distributed from the pipe into the irrigation furrows through holes 1/8 to 5/16 of an inch in diameter, fitted with small wooden plugs. One of these plugs is shown in the picture about 1 foot to the right of the valve. This section was the only one in which cast iron pipe was found as a distributary, during the investigation of the irrigation of small fruits.

Box 60:482  700-L-c-17  Peach Orchard, Fresno County, California. 1916 June
Photographer: Robertson, Ralph D.
Scope and Content Note
Showing Galvanized Iron Pipe.

Box 60:483  700-L-c-18  Galvanized Iron Surface Pipe in Young Prune Orchard. Yuba City, California. 1916 August
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 60:484  700-L-c-19  Galvanized Iron Pipe, Sandy Soil, Fresno, California. 1916 June
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 60:485  700-L-c-20  Irrigating Peach Orchard in Checks with Galvanized Iron Slip Joint Pipe. Yuba City, California. 1916 August
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 60:486  700-L-c-21  Galvanized Iron Surface Pipe Showing Joint. Note Burlap. Santa Clara Valley, California. 1916 August
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 60:487  700-L-c-22  Galvanized Iron Pipe, Fresno County, California. Sandy Soil. Note Spout Opening. 1916 June
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 60:488  700-L-c-23  Galvanized Iron Slip Joint Pipe, Merced County, California. 1916 July
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 60:489  700-L-c-24  Pipe Through Canal Bank, Willows, California. 1916
Photographer: Robertson, Ralph D.
Scope and Content Note
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Box 60:490  700-L-c-25  Irrigation Pipe Line Across Bear River above Auburn. 1918 June 14
Photographer: Adams, Frank
Scope and Content Note
This illustrates the effort that has been made and the cost incurred to get irrigation water
to areas in the Sierra foothills. The land irrigated by this pipe line is north of Bear River,
the source of water supply being one of the main ditches of the Pacific Gas and Electric
Company.

Box 60:491  700-L-c-26  Delivering water from Leroy Anderson pumping plant to a neighboring
farm through galvanized iron pipe line. 1920 March
Photographer: Adams, Frank
Scope and Content Note

Box 60:492  700-L-c-27  Galvanized iron pipe 1400 feet long with two right angle turns on Mrs.
Smith’s orchard at Yuba City. The pipe is held in place by a stake and chain at the
turn. 1916
Photographer: Adams, Frank
Scope and Content Note

Box 60:493  700-L-c-28  Distributing water in galvanized iron surface pipe, Selma, Calif. 1916 May
Photographer: Robertson, Ralph
Scope and Content Note

Box 60:494  700-L-c-29  Galvanized slip joint surface pipe, Merced, Calif. 1916 July
Photographer: Robertson, Ralph
Scope and Content Note

Box 60:495  700-L-c-30  View of blow-off basin at lower end of pipe line from Upper Franklin
Reservoir, Los Angeles water supply system, Los Angeles, Calif. 1914 December
Photographer: J.T.K.
Scope and Content Note

Box 60:496  700-L-c-31  Wrapped and treated steel pipe used by Terra Bella Irrigation Dist. 1918
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 60:497  700-L-c-32  (2 neg) Installation of riveted steel pipe in the Terra Bella Irrigation
District. 1929 March 14
Photographer: Adams, Frank
Scope and Content Note

Box 60:498  700-L-c-33  Slip joint steel pipe line. Discharge pipe line on Hydraulic operated
pumping plant of Montague Water Conservation District. 1928 July 21
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:499  700-L-c-34  Galvanized iron surface pipe in Santa Clara Valley, young prune trees with
tomatoes interplanted. 1916 August
Photographer: Robertson, Ralph
Scope and Content Note
Box 60:500  700-L-d-1 Pipe intake for orchard from flume. Covina, Calif. 1919 March
Photographer: F.W.S.
Scope and Content Note

Box 60:501  700-L-d-2 Relief stand made of 12 in. vit. clay pipe for hillside orchard lateral lines, Highlands, Calif. 1919 April
Photographer: F.W.S.
Scope and Content Note

Box 60:502  700-L-d-3 Diversion overflow stand. Two way diversion, 16 in. stand with 1/2 16 in. spillway inside. King City, Calif. 1919 April
Photographer: F.W.S.
Scope and Content Note

Box 60:503  700-L-d-4 Overflow relief stand-pipe and orchard diversion stand for steep grades. Olive, Calif. 1919 April
Photographer: F.W.S.
Scope and Content Note

Box 60:504  700-L-d-5 Concrete hydrant, Arlington Fruit Company's Ranch, Riverside, Calif. undated
Photographer:
Scope and Content Note

Box 60:505  700-L-d-6 Cement concrete pans connected with cement pipes, Riverside, Calif. 1903 December
Photographer: Fortier, Samuel
Scope and Content Note

Box 60:506  700-L-d-7 Cement pipe distribution of water, Riverside, Calif. 1903 December
Photographer: Fortier, Samuel
Scope and Content Note

Box 60:507  700-L-d-8 Concrete hydrant box and distributing flumes, Riverside, Calif. 1903 December
Photographer: Fortier, Samuel
Scope and Content Note

Box 60:508  700-L-d-9 Relief stand and diversion box with air vent. San Dimas, Calif. 1919 May
Photographer: F.W.S.
Scope and Content Note

Box 60:509  700-L-d-10 Overflow relief stand pipe. San Fernando, Calif. 1919 June
Photographer: F.W.S.
Scope and Content Note

Box 60:510  700-L-d-11 Overflow relief stand. 6 in. overflow inside of 12 in stand as shown. Control gate in short stand at side. Santa Paula, Calif. 1919 April
Photographer: F.W.S.
Scope and Content Note
| Box 60:511 | 700-L-d-12 Relief stand and control gate at side in short stand pipe. Overflow type with 6 in. overflow in 12 in. pipe. Santa Paula, Calif. 1919 April  
Photographer: F.W.S.  
Scope and Content Note |
| Box 60:512 | 700-L-d-13 Relief stand at connection of pump to reinforced concrete pipe. Stand of 12 in. steel pipe 85 ft. high, held up by steel windmill tower. Saugus, Calif. 1919 June  
Photographer: F.W.S.  
Scope and Content Note |
| Box 60:513 | 700-L-d-14 Relief stand from pump to concrete pipe. Whittier, Calif. 1919 March  
Photographer: F.W.S.  
Scope and Content Note |
| Box 60:514 | 700-L-d-15 Field gate on large monolithic pipe line. Turlock Irrigation District. This is a double structure having similar gate on opposite side. 1929 August  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:515 | 700-L-d-16 Closed type of hydrant back of Ontario. 1918 May 19  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 60:516 | 700-L-d-17 Close view of closed type hydrant showing water emerging through galvanized iron gates on the side. 1918 May 19  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 60:517 | 700-L-d-18 Field gate on 36 inch pipe. 24 inch valve. 5 inch walls 1930 February  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:518 | 700-L-d-19 Field gate and check gate on 36 inch continuous concrete pipe line, Turlock 1930 February  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:519 | 700-L-d-20 Field gate and air vent on 36 inch continuous pipe line. Turlock 1930 February  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:520 | 700-L-d-21 Field gates on 36 inch continuous concrete pipe. Farm of Mr. Baldwin 1 1/2 miles S.W. of Hughson 1930 February  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:521 | 700-L-d-22 Box for admitting drainage water into pipe line. Continuous 36 inch concrete pipe. Farm of Mr. Jas. F. Fritts, Hughson 1930 February  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
Box 60:522  700-L-d-23 **Field gate on 30 inch Monolithic concrete pipe line. Turlock 1930 February**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:523  700-L-d-24 **Field gate on 30 inch continuous pipe, 3 miles south of Hughson 1930 February**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:524  700-L-d-25 **Double opening field gate on 24 inch continuous pipe line. 14 inch valve. Turlock 1930 February**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:525  700-L-d-26 **Valve and four way turnout structure on 30” pipe line. Ranch in Modesto Irrigation District Structures were built by Irrigation District on contract for $12 each, exclusive of valve. 1930 January**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:526  700-L-d-27 **Construction of field gate on monolithic pipe line. Turlock Irrigation District. 1931 March**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:527  700-L-d-28 **Field gate on monolithic pipe line, 14-inch valve. Turlock Irrigation District. 1931 March**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:528  700-L-d-29 **Concrete pipe system, walnut orchard, Santa Clara Valley 1916 August**  
Photographer: Robertson, Ralph  
Scope and Content Note

Box 60:529  700-L-d-30 **Concrete pipe system, walnut orchard, Santa Clara Valley 1916 August**  
Photographer: Robertson, Ralph  
Scope and Content Note

Box 60:530  700-L-d-31 **Overflow pipe system in used on the Mills Orchard at Maxwell. 1916**  
Photographer:  
Scope and Content Note

Box 60:531  700-L-d-32 **Stand pipe concrete pipe line. Santa Clara Valley. 1934 May**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 60:532  700-L-d-33 **Standpipe on concrete pipe line. Ruscigno Ranch, Santa Clara Valley. This design permits opening to be used as man-hole when riser is removed. 1934 May**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note
Row of irrigation stand pipes supplying furrow irrigation along Magnolia Drive, near Arlington 1932

Photographer: Adams, Frank

Sealed stand pipe with concrete divisors in Orange orchard near East Highlands, Calif. 1932

Photographer: Adams, Frank

Closed irrigation stand pipe, southern California. 1932

Photographer: Adams, Frank

Automatic Standpipe in the Foothill Grove of the Arlington Heights Fruit Company, Back of Riverside, California. 1914

Photographer: Adams, Frank

The flow of water into the standpipe is regulated by an iron gate, of which the stem is seen to extend above the top of the standpipe. The crest leading from the main standpipe into a smaller water pipe holds the head above the outlets approximately stable.

Settling basin and screens. Connection of orchard pipe with open ditch carrying sand and trash., Orange, Calif. 1919 March

Photographer: F.W.S.

Irrigating citrus with galvanized iron distributors, near Santa Ana. 1932 May

Photographer: Adams, Frank

Overflow distributing hydrants built by the Soil Conservation Service, Placerville. 4" sheet metal gate allows water to pass straight through when structure is not in use. See picture, 700-L-d-41 for detail. 1938 September 23

Photographer: Christiansen, Jerald Emmet

Detail of overflow distributing hydrant. Large pipe, 16", part overflow pipe, 8" and downstream vent is 6". Vent releases entrapped air and prevents downstream hydrant from spouting. See Soil Conservation drawing, LP 701 1938 September 23

Photographer: Christiansen, Jerald Emmet

King City overflow. 12" pipe stand, has 6" pipe riser inside Galvanized gate installed in low stand 24" pipe. Constructed by Soil Conservation Service, Placerville. See Soil Conservation Service drawing LP 3 1938 September 23

Photographer: Christiansen, Jerald Emmet
Box 60:542 700-L-d-43 Brown distributor concrete line installed by Soil Conservation Service, Placerville. Each distributor consists of 2" x 10' light weight galvanized tubing with 4 distributing gates connected to 1 1/2" tee valve. Two flexible ells on each arm permit distributing arm to be placed in any position. See picture 700-L-d-44 for detail. 1938 September 23

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:543 700-L-d-44 Detail of Brown distributor installed on pipe line built by Soil Conservation Service, Placerville. See picture 700-L-d-43. 1938 September 23

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:544 700-L-d-45 Distributing water in furrows from oval distributing hydrants. Orange grove, Ventura county. Gould Denison, owner. 1939 May

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:545 700-L-d-46 Capped distributing hydrant concrete pipe line near Riverside. 1939 June

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:546 700-L-d-47a700-L-d-47b Distributor pipe connected to angle valve with short piece of hose. Near Orange, California. 1941 June 24

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:547 700-L-d-47c Short length of distributor pipe attached to concrete stand with two outlets. Near Orange, California. 1941 June 24

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:548 700-L-d-48a700-L-d-48b King furrow valve with street ells for slip on metal distributor pipes. King Wheel Co. Orange, California. (b) ing furrow valve, showing how it is installed on concrete pipe riser. Made by King Wheel Company. 1941 June 24

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:549 700-L-d-48c700-L-d-48d700-L-d-48e (c) King Furrow Valve with distributor pipes. Made by King Wheel Company, Orange, Califonia. (d-e) King valve with slip-on sheet metal distributing pipes for furrow irrigation. Valve made by King Wheel Company. Orange California. 1941 June 24

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:550 700-L-d-49 King Constant Head Valve. Made by King Wheel Company, Orange, Calif. 1941 June 24

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 60:551 700-L-d-50a700-L-d-50b King valve with distributor pipes. Side hill installation, near Orange. 1941 June 24

Photographer: Christiansen, Jerald Emmet
Scope and Content Note
| Box 60:552 | 700-L-d-51 Cut-away stand showing how gates are installed in open stands. National Cement Pipe Company, Santa Ana. 1941 June 24  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:554 | 700-L-d-52c700-L-d-52d Sample of furrow distributor valve made by Snow Mfg. Co. Demonstration unit, National Cement Pipe Company, Santa Ana (d) Miniature irrigation system to demonstrate various pipe structures and equipment. National Cement Pipe Co., Santa Ana 1941 June 24  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 60:555 | 700-L-d-53 Repairs to concrete control box at Well No. 9. 1947 April 03  
Photographer: JBB  
Scope and Content Note |
| Box 60:556 | 700-L-d-54 Reinforced plate for cover of control box - Well No. 9. 1947 April 03  
Photographer: JBB  
Scope and Content Note |
| Box 60:557 | 700-L-d-55 Distributing head for alfalfa valve. Farm south of Davis, Calif. 1950 August  
Photographer: Marr, J.C.  
Scope and Content Note |
| Box 60:558 | 700-L-d-56 Pressure loss study on an 8" concrete riser and alfalfa valve. Hyd. Lab. 1949 April 03  
Photographer: Scott, Verne H.  
Scope and Content Note |
| Box 60:559 | 700-L-d-57 Pressure loss study on an 8" concrete riser and alfalfa valve. Hyd. Lab. 1949 April 03  
Photographer: Scott, Verne H.  
Scope and Content Note |
| Box 60:560 | 700-L-f-1 Davis, University Farm, California Apparatus for testing concrete pipe showing broken pipe in foreground and pump and gage attached. 1920 May  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 60:561 | 700-L-f-2 Davis, University Farm. Apparatus for testing concrete pipe showing core in foreground. 1920 May  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note  
See views 700 Lf 1+3 |
Box 60:562  
700-L-f-3  **Davis, University Farm, California Apparatus for testing concrete pipe showing the breaking of a pipe and the gage registering the pressure at which the pipe was ruptured. 1920 May**

  Photographer: Vehmeyer, Frank J.

Scope and Content Note

This shows the usual manner in which the pipe breaks in a longitudinal crack. The absence of see page is to be noted. See views 700-L-f-1+2

Box 60:563  
700-L-f-4  **Experimental concrete pipe line for testing expansion and contraction University Farm, Davis, Calif. 1928**

  Photographer: S.H.B.

Scope and Content Note

Box 60:564  
700-L-f-5  **Experimental concrete pipe line for testing expansion and contraction, University Farm, Davis, Calif. 1928**

  Photographer: S.H.B.

Scope and Content Note

Box 60:565  
700-L-f-6  **Concrete pipe for testing expansion and contraction, University Farm, Davis, Calif. 1928**

  Photographer: Matson, Howard

Scope and Content Note

Box 61:1  
700-M-a-1  **Concrete Rating Flume, Settlers Canal, Settlers Irrigation District, Idaho. 1916 December 25**

  Photographer: Hutchins, Wells A.

Scope and Content Note

Box 61:2  
700-M-a-2  **Measuring Flume Installed by U.S. Irrigation Investigations on field of D. B. Guile, near Woodland, Cal., in April, 1914 1914 August 23**

  Photographer: Hutchins, Wells A.

Scope and Content Note

This flume was installed for the purpose of providing a satisfactory cross section for making current meter measurements of the amount of water applied to the Guile field. This was in connection with the duty of water for alfalfa in Sacramento Valley. Measurements were made on this field in both 1913 and 1914 but the flume was in use only in 1914, the experience of the previous year having shown the undesirability of the earthen ditch for making current meter measurements.

Box 61:3  

  Photographer: Hutchins, Wells A.

Scope and Content Note

Box 61:4  

  Photographer: Hutchins, Wells A.

Scope and Content Note

Box 61:5  

  Photographer: Hutchins, Wells A.

Scope and Content Note
Box 61:6 700-M-a-5 Rating Flume, Baker Field, Rice Duty of Water Investigations Sacramento Valley, California, 1917. 1917 August 8
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   In 1916 this was used as a weir box but owing to the amount of water carried in the ditch in 1917, it was impossible to place a weir in this position.

Box 61:7 700-M-a-6 Venturi Flume Moulton Tract, Rice Duty of Water Investigations, Sacramento Valley, California. 1917 August 9
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 61:8 700-M-a-7 Improved Venturi flume, width 1 foot. University Farm, Davis 1929 October
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:9 700-M-a-8 Ten foot Parshall measuring flume - Alta Irrigation District Picture furnished by Mr. E. Sibley, Alta Irrigation District 1929 December
   Photographer:
   Scope and Content Note
   No negative

Box 61:10 700-M-a-9 Ten foot Parshall measuring flume at head of Reedley main ditch. This structure cost $545.14. Alta Irrigation District 1930 January
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. 734

Box 61:11 700-M-a-10 Ten foot Parshall measuring flume at head of Reedley main ditch. Alta Irrigation District. Picture furnished by E. Sibley, Alta Irrigation District. 1930 March
   Photographer:
   Scope and Content Note
   No negative

Box 61:12 700-M-a-11 Four foot Parshall measuring flume. Alta Irrigation District Picture furnished by E. Sibley of Alta Irrigation District 1929 December
   Photographer:
   Scope and Content Note

Box 61:13 700-M-a-12 Four foot Parshall measuring flume, Alta Irrigation District 1930 January
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. 735

Box 61:14 700-M-a-13 (No neg) Two foot Parshall measuring flume set in concrete lined canal. Alta Irrigation District. Picture furnished by E. Sibley of Alta Irrigation District. 1929 December
   Photographer:
   Scope and Content Note
| Box 61:15 | 700-M-a-14 **Improved Venturi Flume. W--1'0". Out-of-doors hydraulic laboratory at University Farm, Davis. 1929 June**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 61:16 | 700-M-a-15 **Drawing of Parshall Measuring Flume 1932**  
Photographer: Huberty, Martin R.  
Scope and Content Note |
| Box 61:17 | 700-M-a-16 **Rating flume used to measure water with current meter on alfalfa plots. Imperial Valley. 1914**  
Photographer: F.W.  
Scope and Content Note |
| Box 61:18 | 700-M-a-17 **Rating flume, Whitlock Ranch, Imperial Valley, alfalfa investigation, 1915. 1917**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 61:19 | 700-M-a-18 **6'inch Parshall measuring flume in drainage ditch for measuring run-off. Riverside, Calif. 1928**  
Photographer: Taylor, C.A., U.S.D.A.  
Scope and Content Note |
| Box 61:20 | 700-M-a-19 **6-in. Parshall measuring flume in drainage ditch for measuring run-off. Riverside, Calif. 1928. undated**  
Photographer: Taylor, C.A., U.S.D.A.  
Scope and Content Note |
| Box 61:21 | 700-M-a-20 **3-in. galvanized iron Parshall measuring flume (standard flume except that diverging section is eliminated for free-flow installation) Coldwater Canyon near San Bernardino, Calif. 1932. undated**  
Photographer: Taylor, C.A., U.S.D.A.  
Scope and Content Note |
| Box 61:22 | 700-M-a-21 **3-in. galvanized iron Parshall measuring flume (abbreviated Pomona type) Mud-flat branch of Coldwater Canyon near San Bernardino, Calif. undated**  
Photographer: Taylor, C.A., U.S.D.A.  
Scope and Content Note |
| Box 61:23 | 700-M-a-22 **30-foot Parshall measuring flume on the Colorado Canal showing a discharge of 800 second-feet undated**  
Photographer: Parshall  
Scope and Content Note |
| Box 61:24 | 700-M-a-23 **6-in. Parshall measuring flume on lateral from farmers' Ditch at Boulder, Colorado. Flume equipped with indicating tape showing shares through structure. undated**  
Photographer: Parshall  
Scope and Content Note |
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<th>Box</th>
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| Box 61:25 | 700-M-a-24 1-foot reinforced concrete Parshall measuring flume, farm lateral leading from Kern Lake lateral, Lake Canal. Discharge 400 sec. feet. undated  
Photographer: Parshall  
Scope and Content Note |
| Box 61:26 | 700-M-a-25 6-inch sheet metal Parshall measuring flume installed at Rocky Ford, Col. undated  
Photographer: Parshall  
Scope and Content Note |
| Box 61:27 | 700-M-a-26 San Dimas flume for measuring runoff. San Dimas Forest and Range Experiment Station. 1939 May  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 61:28 | 700-M-b-49 Weir on Rice Experimental Tract, Biggs, Cal. 1915 May 1  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This is used to measure the water on the plat devoted to cooperative rice irrigation experimentation at the Bureau of Plant Industry Rice Station. This shows Mr. R. D. Robertson, Ralph and Mr. E. L. Adams, measuring the water. |
| Box 61:29 | 700-M-b-50 Weir and Register, Experimental Tract, Willows, Cal. 1915 June 5  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
A Leitz water register was installed to record the flow over this weir in supplying the water to the Experimental Tract of the Sacramento Valley Irrigation Co., on which alfalfa duty of water experiments were conducted by this office in 1915. This shows a part of the Sacramento Valley investigation of the economic duty of water for alfalfa. |
| Box 61:30 | 700-M-b-51 Rectangular Weir and Water Register, Sacramento Valley Irrigation Experimental Tract, Willows, Cal. 1915 August 17  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
The head water delivered over this weir was about 3-1/2 second feet. The water was taken directly from the Barceloux lateral in the back. |
| Box 61:31 | 700-M-b-52 Weir, Experimental Alfalfa Tract, Willows, Cal. 1916 May 11  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This shows the installation of the 3-foot rectangular weir in the headgate of the field lateral, before any water had been turned in, and before the water register was installed. The diagonal brace back of the weir was rarely over it, in order not to cause an eddy effect. Water was measured over this weir to the Sacramento Valley Irrigation Experimental Tract, during the alfalfa duty of water investigations. |
| Box 61:32 | 700-M-b-53 Measuring Water on the Orland Project, California. undated  
Photographer: J.T.K.  
Scope and Content Note |
| Box 61:33 | 700-M-b-54 Measuring Water on the Orland Project, in the 1914 Field Experiments, California. undated  
Photographer: J.T.K.  
Scope and Content Note |
Box 61:34  700-M-b-55 Two-foot Standard Contracted Rectangular Weir and Automatic Water Register, used for Measuring Water on Adams Field, Biggs, California. undated
   Photographer:
   Scope and Content Note

Box 61:35  700-M-b-56 Rectangular Weir and Water Register, Sacramento Valley Irrigation Experimental Tract, Willows, Cal. 1915 July 17
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 61:36  700-M-b-57 Baker Weir, Biggs, California. 1916 July
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 61:37  700-M-b-58 Weir and Register on Scheeline Tract, Willows, California. 1916
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 61:38  700-M-b-59 Weir and Water Register on Schell and Woodruff Field, Marysville, California. 1916
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 61:39  700-M-b-60 Weir and Water Register on Garland Rice Field Willows, California. 1916 September
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 61:40  700-M-b-61 Weir and Register, Willows, California. Edwards Tract. 1916
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 61:41  700-M-b-62 Weir on Quatman Tract, Willows, California. 1916
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 61:42  700-M-b-63 Concrete Drop and Weir, Orland, California. 1916 October
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 61:43  700-M-b-64 Weir and Water Register on McDermitt Rice Field, Maxwell, California. 1916 September
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 61:44  700-M-b-65 Weir and register, Spalding Ranch, Willows, Cal. 1916
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 61:45  700-M-b-66 Weir and Register, Willows, California. 1916
   Photographer: Robertson, Ralph D.
   Scope and Content Note
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<tr>
<th>Box Number</th>
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| 61:46      | 700-M-b-67   | Main Header Box, Field Laboratory Measuring Device, Davis, California.  
                      Undated  
                      Photographer: Adams, Frank  
                      Scope and Content Note |
| 61:47      | 700-M-b-68   | Weir and Register, Adams field, Biggs. Four foot crest. Undated  
                      Photographer:  
                      Scope and Content Note |
                      Pleasant Valley, Nevada County, 1917. 1917 August  
                      Photographer: Adams, Frank  
                      Scope and Content Note  
                      Since this picture was taken the pool above the weir has been enlarged in order to reduce  
                      the velocity of approach. |
| 61:49      | 700-M-b-70   | V Notch and Water Register, Duty of Water Investigations, Yuba- Nevada  
                      Co. 1917 1917 August  
                      Photographer: Adams, Frank  
                      Scope and Content Note |
| 61:50      | 700-M-b-71   | V Notch and Water Register used in Duty of Water Investigations, Garfield  
                      Robson Farm Penn Valley, Nevada County, 1917. 1917 August  
                      Photographer: Adams, Frank  
                      Scope and Content Note |
| 61:51      | 700-M-b-72   | Cipolletti Weir and Register, Casey Farm, Yuba-Nevada Counties Duty of  
                      Water Investigations. August, 1917. 1917 August  
                      Photographer: Adams, Frank  
                      Scope and Content Note |
| 61:52      | 700-M-b-73   | Rectangular Weir and Water Register 1917 July  
                      Photographer: Adams, Frank  
                      Scope and Content Note  
| 61:53      | 700-M-b-74   | Weir for Measuring Water Delivered to Dodge Rice Field, near Nelson,  
                      California. Rice Duty of Water Investigations in Sacramento Valley, 1917. 1917 April  
                      30  
                      Photographer: Hutchins, Wells A.  
                      Scope and Content Note |
| 61:54      | 700-M-b-75   | Weir and Gurley Water Register, Harlan Field Near Madison, California.  
                      Rice Duty of Water Investigations in Sacramento Valley, 1917. 1917 May 1  
                      Photographer: Hutchins, Wells A.  
                      Scope and Content Note |
| 61:55      | 700-M-b-76   | Weir Cadanassa Field near Madison, California. Rice Duty of Water  
                      Investigations in Sacramento Valley, 1917. 1916 May 1  
                      Photographer: Hutchins, Wells A.  
                      Scope and Content Note |
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<tr>
<th>Box</th>
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<tr>
<td>61:56</td>
<td>700-M-b-77</td>
<td>Measuring Water to Peach Orchard, C. Schwartz Farm, Pleasant Valley, Nevada County, 1917. 1917 August</td>
<td>1917 August</td>
<td>Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>61:57</td>
<td>700-M-b-78</td>
<td>Notch and Water Register Measuring Water to O’Brion Pasture, Smartsville, Yuba County, 1917. 1917 August</td>
<td>1917 August</td>
<td>Adams, Frank</td>
<td>On the left is shown the usual type of measuring box under the Excelsior Water and Mining Company system. This was replaced by our field engineer with the suppressed weir shown near the center directly above the V notch and register box. 1917.</td>
</tr>
<tr>
<td>61:59</td>
<td>700-M-b-80</td>
<td>Supply Weir, Johnson Tract, near Smartsville, California. Duty of Water Investigations, Yuba-Nevada Counties Season, 1917. 1917 May 17</td>
<td>1917 May 17</td>
<td>Hutchins, Wells A.</td>
<td>On the left is shown the discharge box through which water is measured by the Excelsior Water and Mining Company.</td>
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<td>61:60</td>
<td>700-M-b-81</td>
<td>Typical Weir Box used by Excelsior Water and Mining Company in Yuba-Nevada Counties, California. Duty of Water Investigations, Yuba-Nevada Counties Season, 1917. 1917 May 18</td>
<td>1917 May 18</td>
<td>Hutchins, Wells A.</td>
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<td>61:63</td>
<td>700-M-b-85</td>
<td>Suppressed Weir and Water Register Box Adams No. 2 Field, Rice Duty of Water Investigations in Sacramento Valley. 1917. 1917 August 8</td>
<td>1917 August 8</td>
<td>Hutchins, Wells A.</td>
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<td>Box 61:65</td>
<td>700-M-b-87 Weir and water register on Garland rice field, Willows. 1916</td>
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<td>Box 61:66</td>
<td>700-M-b-88 Weir and Water Register, Crouch Field near Chico, California. Rice Duty of Water Investigations in Sacramento Valley, 1917. 1917 April 27</td>
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<td>Box 61:69</td>
<td>700-M-b-91 Distributing hydrant, weir and flume on the San Diego coastal plain back of Carlsbad. 1917 November</td>
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<td>Box 61:70</td>
<td>700-M-b-92 Show Measuring Device on the grounds of the Edison Land and Water Company. 1917 November</td>
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<td>Box 61:71</td>
<td>700-M-b-96 Measuring weir in Imperial Valley, Duty of water Studies, 1917, mucking the weir box. 1917</td>
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<td>Box 61:72</td>
<td>700-M-b-100 Main weir head gates. Whittier Water Co, San Gabriel River at El Monte. 1919 March</td>
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<td>Box 61:73</td>
<td>700-M-b-101 Cippoletti weir and register, Smith ranch. Duty of water measurements Imperial Valley, Calif. 1914</td>
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Box 61:74  700-M-b-102 Pipe weir. Whittier, Calif. 1919 March
    Photographer: F.W.S.
    Scope and Content Note

Box 61:75  700-M-b-103 Forms for making weir box used by the Gage Canal Co., Riverside, Calif. undated
    Photographer: 
    Scope and Content Note

Box 61:76  700-M-b-104 Weir box with adjustable gage. Yorba Linda, Calif. 1919 April
    Photographer: F.W.S.
    Scope and Content Note

Box 61:77  700-M-b-105 Water measurement at Greebs pumping plant with portable steel weir, near Pomona, Calif. Plant for alfalfa irrigation. Stand pipe undated
    Photographer: Tait, C.E.
    Scope and Content Note

Box 61:78  700-M-b-106 Weir in Temporary Dam across American River at head of Placerville Ditch by which water is measured to lower users. 1919 August
    Photographer: Adams, Frank
    Scope and Content Note

Box 61:79  700-M-b-107 A rectangular weir and concrete measuring box. undated
    Photographer: 
    Scope and Content Note

Box 61:80  700-M-b-108 A typical concrete outlet gate and concrete V notch measuring weir on Camino Ridge above Placerville. 1925 June
    Photographer: Adams, Frank
    Scope and Content Note

Box 61:81  700-M-b-109 4-ft. rectangular weir used for measuring inflow to Medford Island 1924 June
    Photographer: Adams, Frank
    Scope and Content Note

Box 61:82  700-M-b-110 4-ft. rectangular weir used for measuring inflow to Medf. Is. 1924 June
    Photographer: Adams, Frank
    Scope and Content Note

Box 61:83  700-M-b-111 (2 negatives) Experimental weir in header box. Field Irrigation measuring device laboratory, Davis. 1927 November
    Photographer: Adams, Frank
    Scope and Content Note

Box 61:84  700-M-b-112 Header box, field experimental measuring device laboratory, Davis, showing rectangular weir and V notch. 1927 November
    Photographer: Adams, Frank
    Scope and Content Note
Box 61:85 700-M-b-113 Measurement of water. V notch weir and water register. Irrigation tract, 1912. 1912
Photographer: Beckett, Samuel H.
Scope and Content Note

Box 61:86 700-M-b-114 Measurement of water on plots at Whittier, July 15, 1929. Loss of water studies. 1921 July 15
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 61:88 700-M-b-116 Water register and V notch weir on Taylor Farm - Sacramento Duty of Water Investigations 1925 June
Photographer: Adams, Frank
Scope and Content Note

Box 61:89 700-M-b-117 V-notch weir and water register - Taylor orchard near Loomis undated
Photographer:
Scope and Content Note

Box 61:90 700-M-b-118 Concrete Cipollette weir on central canal. Fresno Irrigation District. Note submergence, Weir partially submerged. 1929 May 8
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:91 700-M-b-119 Twenty foot rectangular weir below automatic headgate to laterals. West Stanislaus Irrigation District. 1929 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:92 700-M-b-120 Automatic gate at head of laterals. Stilling basin and 20' rectangular weir standard equipment. Weirs equipped with automatic recorders installed in concrete house. West Stanislaus Irrigation District 1929 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:93 700-M-b-121 Measuring water over 4.04' suppressed weir or calibration on station. Tests made on 24" Calco gate on corrugated culvert pipe. Mr. H. M. Tucker measuring and Mr. Hanson, Calco Engineer, standing. Fresno Irrigation District. 1929 May 23
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:94 700-M-b-122 Weir constructed on bridge near pumping plant, Sutter Mutual Water Company, Robbins, California. Weir constructed to test pumps. 1930 November
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Box 61:95
700-M-b-123 Same as 700-M-b-122. This view shows water nearing crest. 1930 November
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:96
700-M-b-124 Same as 700-M-b-122 and 700-M-b-123. This view shows water flowing over crest. 1930 November
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:97
700-M-b-125 Measuring water in field ditch over 2 foot portable rectangular weir. Portable hook gage used for measuring head near Davis. 1937 June 25
   Photographer: Givan, C.V.
   Scope and Content Note

Box 61:98
700-M-b-126 Measuring water over 2-foot rectangular weir, W. O. Robie place, west of Davis. 3 views 1931 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:99
700-M-b-127 Measuring water over 2-foot rectangular weir, Boyd Place, West of Winters. 1931 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:100
700-M-b-128 Measuring water over 2-foot rectangular weir, Mrs. McCune place, near Winters. 2 views 1931 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:101
700-M-b-129 Measuring water over 2 foot rectangular weir at Robert Collier place, Dixon. 1931 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:102
700-M-b-130 Measuring water over 2 foot rectangular weir. 1931 August
   Photographer: Givan, C.V.
   Scope and Content Note

Box 61:103
700-M-b-131 Measuring water over 2-foot rectangular weir. Straloch Farm, west of Davis. 1931 August
   Photographer: Givan, C.V.
   Scope and Content Note

Box 61:104
700-M-b-132 Measuring water over 2 foot rectangular weir at Donnenwirth Place. Davis 1931 August
   Photographer: Givan, C.V.
   Scope and Content Note

Box 61:105
700-M-b-133 Measuring water over 2-foot rectangular weir at G. K. Swingle place, Davis. 2 views 1931 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
| Box 61:106 | 700-M-b-134 **Measuring water from pumping plant over 2 foot rectangular weir. G. K. Swingle ranch, Davis. 1931 August**  
Photographer: Givan, C.V.  
Scope and Content Note |
| Box 61:107 | 700-M-b-135 **Measuring water over 2 foot rectangular weir, at Pierce ranch. Davis 1931 August**  
Photographer: Givan, C.V.  
Scope and Content Note |
| Box 61:108 | 700-M-b-136 **Measuring water over 2-foot rectangular weir at Dixwell Pierce ranch, Davis 1931 August**  
Photographer: Givan, C.V.  
Scope and Content Note |
| Box 61:109 | 700-M-b-137 **Measuring water over 2-foot rectangular weir at Boyce ranch. Winters 1931 August**  
Photographer: Givan, C.V.  
Scope and Content Note |
| Box 61:110 | 700-M-b-138 **Measuring water over 2-foot rectangular weir, Putah Creek investigation 1931 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 61:111 | 700-M-b-139 **Rectangular weir, width 12 inches, in concrete weir box. Outdoor Hydraulic Laboratory, Davis, Calif. 1932 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 61:112 | 700-M-b-140 **Suppressed weir (Type B) used to measure rate of flow, showing location of hook gage and lath baffle downstream from weir. Stanford University, Hydraulic Laboratory 1932 March**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 61:113 | 700-M-b-141 **Upstream face of type J weir used in making tests of Clausen- Pierce weir gage, Stanford University Hydraulic Laboratory. 1932 March**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 61:114 | 700-M-b-142 **Model of V-notch weir, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932 1932 April 18**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 61:115 | 700-M-b-143 **Model of Cipolletti weir, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932. 1932 April 18**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
Box 61:116  700-M-b-144 Model of rectangular contracted weir, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932 1932 April 18
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:117  700-M-b-145 Weir measurement at Boyer Gardens, Coachella Valley (Picture taken before baffles placed to decrease turbulence.) Use of water studies in Coachella Valley. 1932 April 12
Photographer: A.F.P.
Scope and Content Note
Negative sent to A.F.Pellsburg U.C.S.A. 2/26/36 for filing there.

Box 61:118  700-M-b-146 Measuring flow of pumping plants by means of portable metal weir. Santa Clara Valley Pumping investigation by C.V. Givan 1934 May
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:121  700-M-b-149 Cleaning silt. Mucking. 1917
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Photographer:
Scope and Content Note

Box 61:124  700-M-b-152 Measurement of water from pumps in Santa Clara Valley, C. V. Givan's project. 1934 May
Photographer: Adams, Frank
Scope and Content Note

Box 61:125  700-M-b-153 Portable steel 18" Cippoletti weir. undated
Photographer:
Scope and Content Note
Portable steel 18" Cippoletti weir measuring discharge from pumping plant of Thos. J. Green near Pomma Calif. View shows a short level, hand ax and straight edge. All that is needed to set weir. Weir can be set in 5 min with water running.
Box 61:126  700-M-b-154 **Current meter rating station built by the Calif. Development Co. at Calexico, Calif. Now the Imperial Irrig. District.** undated  
Photographer:  
Scope and Content Note

Box 61:127  700-M-b-155 **Untitled** undated  
Photographer:  
Scope and Content Note

Box 61:128  700-M-b-156 **Diversion weir, Butte Creek, for the Stanford unit Durham State L.S. Durham, Calif.** undated  
Photographer:  
Scope and Content Note

Box 61:129  700-M-b-157 **Dethridge melts - Davis field laboratory** undated  
Photographer:  
Scope and Content Note

Box 61:130  700-M-b-158 **Untitled** undated  
Photographer:  
Scope and Content Note

Box 61:131  700-M-b-159 **Equipment used in rating lateral of South Brentwood Project 1922 September**  
Photographer:  
Scope and Content Note

Box 61:132  700-M-b-160 **All - Calif. Engineer 1924**  
Photographer: Hoff, E.J.  
Scope and Content Note

Box 61:133  700-M-c-14 **Division Box, Big Rock Creek Irrigation District, Cal. 1915 June 30**  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This is on the east main ditch.

Box 61:134  700-M-c-15 **Division Box on Main Canal, Cascade Irrigation District, Washington. 1916 November 18**  
Photographer: Hutchins, Wells A.  
Scope and Content Note

Box 61:135  700-M-c-16 **Delivery Box with "V" Notched Weir, Cascade Irrigation District, in Kittitas Valley, Washington. 1916 November 18**  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
Water is taken from the main canal through vitrified pipe with a concrete bulkhead and caste iron gate on the ditch side of the bank, and delivered into this pipe on the opposite side. A baffle is provided midway in the box as shown in the picture. The water wells up from the pipe in the bottom of the box at the back and flows over this weir into an open ditch. A gauge is provided for reading the height of water over the notch. This type of delivery box is in very general use in this District.
Box 61:136  700-M-c-17 Division Box, Hood River Irrigation District, Oregon. 1916 November 10
Photographer: Hutchins, Wells A.
Scope and Content Note
This box is used for a proportional division of waters flowing in the main flume. This also represents the upper end of a syphon which carries the water across a pronounced swale.

Box 61:137  700-M-c-18 Discharge Sand and Measuring Box for well No. 3, Boston Land Company near Huron. 1918 May 06
Photographer: Adams, Frank
Scope and Content Note
Device shown is the reliance meter.

Box 61:138  700-M-c-20 Wier box for equal division. Arcadia, Calif. 1919 March
Photographer: F.W.S.
Scope and Content Note

Box 61:139  700-M-c-21 Box for dividing equal amounts of water and overflow. Azusa, Calif. 1919 March
Photographer: F.W.S.
Scope and Content Note

Box 61:140  700-M-c-22 Lateral diversion from concrete ditch. Note overflow and waste pipe returning to ditch below check gate. Covina, Calif. 1919 May
Photographer: F.W.S.
Scope and Content Note

Box 61:141  700-M-c-23 Three way diversion box. This type placed on each orchard and delivers required amount to three irrigators. Not supposed to measure accurately but divides fairly. Covina, Calif. 1919 March
Photographer: F.W.S.
Scope and Content Note

Box 61:142  700-M-c-24 Diversion box for dividing irrigation water. Highlands, Calif. 1919 April
Photographer: F.W.S.
Scope and Content Note

Box 61:143  700-M-c-25 Diversion box attached to underground pipe feeding water to orchard flume. Gate set by zanjero and top locked to prevent tampering. Highlands, Calif. 1919 March
Photographer: F.W.S.
Scope and Content Note

Box 61:144  700-M-c-26 Wier box showing locked top leading to gate in main. Pomona, Calif. 1919 March
Photographer: F.W.S.
Scope and Content Note
Also overflow pipe against baffle wall. Water flows under baffle wall over weir. Slatted box at far end is settling basin and gates for orchard laterals.
Box 61:145 700-M-c-27 Diversion box distributing water from main to two laterals. Pomona, Calif. 1919 April
   Photographer: F.W.S.
   Scope and Content Note
   Orchard laterals shown above ground. Main gate underground on level with main. Note laterals at same elevation so equal amounts of water can be distributed. Also note ventpipes of 1/2 in. pipe for air vents

Box 61:146 700-M-c-28 Diversion box utilizing pipe thruout. Pomona, Calif. 1919 April
   Photographer: F.W.S.
   Scope and Content Note

Box 61:147 700-M-c-29 Equal diversion box made of one 36 and two halves of 16 in. pipes. Note slotted one inch boards for gates, San Dimas, Calif. 1919 April
   Photographer: F.W.S.
   Scope and Content Note

Box 61:148 700-M-c-30 Pipe weir and diversion box. San Dimas, Calif. 1919 April
   Photographer: F.W.S.
   Scope and Content Note

Box 61:149 700-M-c-31 (No neg) Wier box showing baffle wall and top of hydrant. Water leads to box thru iron pressure main. San Dimas, Calif. 1919 June
   Photographer: F.W.S.
   Scope and Content Note

Box 61:150 700-M-c-32 Pipe weir with control valve on outside. Connection of steel pressure line to concrete pipe lateral. San Fernando, Calif. 1919 June
   Photographer: F.W.S.
   Scope and Content Note

Box 61:151 700-M-c-33 Diversion from main. Main covered concrete ditch arched over. Lateral box on lower level covered. Lift gate controls amount of water delivered to M. I. box in lateral box. Wheel controls check in main ditch 1919 March
   Photographer: F.W.S.
   Scope and Content Note

Box 61:152 700-M-c-34 Main distributing box with overflow crest. North Whittier Heights, Calif. 1919 July
   Photographer: F.W.S.
   Scope and Content Note

Box 61:153 700-M-c-35 Main diversion box, Covina Water Co., Covina, Calif. 1919 March
   Photographer: F.W.S.
   Scope and Content Note

Box 61:154 700-M-c-38 Standard delivery box S.A.V.I. Co. Santa Ana, Calif. 1919 March
   Photographer: F.W.S.
   Scope and Content Note

Box 61:155 700-M-c-39 Concrete measuring box, Southern California. undated
   Photographer:
   Scope and Content Note
Box 61:156 700-M-c-40 Concrete Stand Pipe and Measuring Box, Salinas Land Company Near Kings City. 1919 July
   Photographer: Adams, Frank
   Scope and Content Note

Box 61:157 700-M-c-41 Measuring Box and Stand Pipe, Contour Irrigation, Arlington Heights, Riverside County. 1920 May
   Photographer: Adams, Frank
   Scope and Content Note
   A portion of Mockingbird Canyon Reservoir of Gage Canal Company on extreme left.

Box 61:158 700-M-c-42 (No neg.) Sheet metal division and measuring box somewhat similar to Azusa miners-inch box. 1922 July
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 61:159 700-M-c-43 Untitled 1903 August
   Photographer: Fortier, S.
   Scope and Content Note

Box 61:160 700-M-d-1 Concrete miners inch box. Main box on main pipe line. Fullerton, Calif. 1919 July
   Photographer: F.W.S.
   Scope and Content Note

Box 61:161 700-M-d-2 Miners inch box with screened lateral box. Placentia, Calif. 1919 April
   Photographer: F.W.S.
   Scope and Content Note

Box 61:162 700-M-d-3 Santa Ana Valley Irrigation Co. M. I. device. Santa Ana, Calif. 1919 May
   Photographer: F.W.S.
   Scope and Content Note

Box 61:163 700-M-d-4 Measuring Box, Santa Ana Valley Irrigation Co., California. undated
   Photographer: Tait, C.E.
   Scope and Content Note

Box 61:164 700-M-d-5 Concrete Miners' Inch Box on Camino Ridge, El Dorado County. 1919 August
   Photographer: Adams, Frank
   Scope and Content Note

Box 61:165 700-M-d-7 Adjustable measuring plate in turnout from Santa Ana Valley Irrigation Co. main canal. Santa Ana, Calif. 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:166 700-M-d-8 Miner's inch plate on delivery from lined canal. Anaheim Union Water Co. Near Yorba Linda, Calif. 1981 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
| Box 61:167 | 700-M-d-9 Asuza measuring box - outdoor irrigation measuring device laboratory, Davis undated |
| Box 61:168 | 700-M-d-10 Measuring Box, Anaheim Union Water Co., California. undated |
| Box 61:169 | 700-M-d-11 Three-way Azusa Hydrant, Covina, Calif. 1919 February |
| Box 61:170 | 700-M-d-12 Riverside Water Company measuring box - outdoor irrigation laboratory - University Farm, Davis. undated |
| Box 61:171 | 700-M-d-13 Snow miner's inch plate and hook gage installed in Outdoor Hydraulic Laboratory, Davis 1931 December |
| Box 61:172 | 700-M-d-14 Miner's inch box on Anaheim Union Water Company Canal, Anaheim, California. Pictures show check gate across main canal, by pass, and spill crest to hold water level constant above two miner's inch plates delivering water to farmers concrete pipe lines. 1934 |
| Box 61:173 | 700-M-d-15 Anaheim miner's inch box - Southern California 1932 |
| Box 61:174 | 700-M-e-1 Submerged orifice on intake into Medford Island, June, 1924 1924 June |
| Box 61:175 | 700-M-e-2 Adjustable submergence orifice - outdoor irrigation measuring device laboratory, Davis undated |
| Box 61:176 | 700-M-e-3 Yolo submerged orifice gate - outdoor irrigation measuring device laboratory, Davis undated |
| Box 61:177 | 700-M-e-4 Delivery Gate and Measuring Device Used on Yolo Water and Power Company, California 1916 August |
Box 61:178  700-M-e-5  **Checking flow through submerged orifice with rectangular weir - outdoor irrigation laboratory, Davis. undated**
   Photographer: Wadsworth, H.A.
   Scope and Content Note

Box 61:179  700-M-e-6  **Concrete flume and submerged orifice. Outdoor hydraulic laboratory, Davis, California. 1929 December 5**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:180  700-M-e-7  **Adjustable submerged orifice installation on turnout. Fresno Irrig. Dist. 1930 January**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:181  700-M-e-8  **Delivery and measuring gate, Rice fields, Yolo Water and Power Company, California. 1916 September**
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 61:182  700-M-e-9  **Measuring box in duty of water investigations of rice. undated**
   Photographer: Scope and Content Note

Box 61:183  700-M-e-10  **(2 neg.) Great Western Irrigation Meter installed March 1932 on 4” x 12” rectangular submerged orifice. Outdoor Hydraulic Laboratory, Davis, California. 1932 April**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:184  700-M-f-20  **Venturi Meter, Davis, California 1915 October 29**
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This was installed on the Irrigation Investigations Plant for the purpose of testing out the meter.

Box 61:185  700-M-f-21  **Taking Current-Meter Measurement, Davis, California. 1915 October 28**
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 61:186  700-M-f-22  **Water Register, Scheeline Rice Field, Willows, California. 1916 September**
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 61:187  700-M-f-23  **Register on Edwards tract, Willows 1916**
   Photographer: Scope and Content Note

Box 61:188  700-M-f-24  **Water Register on McDermitt Weir, Maxwell, Cal. 1916 September**
   Photographer: Robertson, Ralph D.
   Scope and Content Note
   Used in measuring water for rice irrigation.
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 61:190  700-M-f-30 Screen and Watson water register, Gage Canal, Arlington, Calif. 1919 May
   Photographer: F.W.S.
   Scope and Content Note

Box 61:191  700-M-f-31 Dethridge meter at Wheelock ranch. Duty of water measurements, Imperial V. 1915
   Photographer: Tait, C.E.
   Scope and Content Note

Box 61:192  700-M-f-32 (No neg) Rating Station on Canal, Imperial Valley, California. 1917 January 6
   Photographer: Tait, C.E.
   Scope and Content Note

Box 61:193  700-M-f-33 Reliance meters main line, Santa Paula, Calif. 1919 April
   Photographer: F.W.S.
   Scope and Content Note

Box 61:194  700-M-f-34 Neptune water meter for orchard. Whittier, Calif. 1919 April
   Photographer: F.W.S.
   Scope and Content Note

Box 61:195  700-M-f-35 Reliance meter. Whittier, Calif. 1919 May
   Photographer: F.W.S.
   Scope and Content Note

Box 61:196  700-M-f-38 Battery of Reliance meters measuring water from Mutual Water Company pumping plant, near Dodge Land Co. headquarters, Butte Co. 1921 August
   Photographer: Adams, Frank
   Scope and Content Note

Box 61:197  700-M-f-39 Reliance meter in pipe line, - outdoor measuring device laboratory, Davis undated
   Photographer: Adams, Frank
   Scope and Content Note

Box 61:198  700-M-f-40 Dethridge Meter - outdoor measuring device lab. - Davis undated
   Photographer: Adams, Frank
   Scope and Content Note

Box 61:199  700-M-f-41 Water Register, Mallon and Blevins Rice Canal and Water Lift. 1918 November
   Photographer: Adams, Frank
   Scope and Content Note
Box 61:200  700-M-f-42 (no neg) Measuring the Irrigation "Head" with a Current Meter on Hofhenke alfalfa farm, Los Molinos, California. undated
   Photographer:
   Scope and Content Note

Box 61:201  700-M-f-43 Covers for measuring wells being removed from the forms Fresno I.D. 1929 July 8
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:202  700-M-f-45 Calibrating station. Fresno Irrig. Dist. Mr. H. M. Tucker measuring elevation of water in pond below gate to determine total loss of head through gate and pipe. 1929 May 23
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. 736

Box 61:203  700-M-f-46 Installing two adjustable flow meters at calibration station. Fresno Irrig. Dist. Opening is to be varied to obtain sufficient difference in head to make accurate measurement with large variation in discharge. 1929 May 14
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. 733

Box 61:204  700-M-f-47 Flow meter cast in section of concrete pipe. Fresno Irrig. Dist. 1929 May 8
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. 741

Box 61:205  700-M-f-48 Mr. Tucker installing brass plate on 14" flow meter. Plate contains No. of meter, diameters of pipe and throat, R. and K. Fresno Irrig. Dist. 1929 May 6
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:206  700-M-f-49 Installation of Calco gates. 24" and 12" connected to corrugated culvert pipe at calibration station. Picture shows stilling wheel for measuring loss of head through gate. Tests were made to determine relationship between corrugated culvert pipe and concrete pipe. Manometer tube not used for measuring head, but just for indicating difference in levels. 1929 May 23
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Fresno Irrig. Dist.

Box 61:207  700-M-f-50 Calibration station Fresno Irrig. Dist. before turning in water. Shows 24" and 12" Calco 101 gates on left with corrugated pipes. Texas and Snow gates in center, and adjustable flow meters at right. Fresno Irrigation District 1929 May 18
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. 737
Box 61:208 700-M-f-51 Mr. A. J. Gerner measuring water through a 12 inch flow meter measuring device. 1929 May 6
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:209 700-M-f-52 Manometer tube used by Consolidated Irrigation Dist. to determine "head" on Venturi meters during tests at Fresno Calibration Station 1929 May 7
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:210 700-M-f-53 Metal cones built to enlarge outlet end of Venturi meters to determine difference in head cast with large outlet end. Very little head saved with cone. 1929 May 5
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:211 700-M-f-54 Casting Venturi meters in metal forms at Consolidated Irrig. Dist. yard. 1929 May 5
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:212 700-M-f-55 Metal forms for casting Venturi meters. From left to right. Inside form for 24" entrance, outside for 20" entrance. Inside for 24" exit, and inside for 16" exit and entrance respectively. Consolidated Irrig. Dist. 1929 May 25
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:213 700-M-f-56 Metal forms for Venturi meters. From left to right, standing. Outside and inside form for 24" exit section, outside 20" entrance, inside 24" entrance, and inside forms for 16" meter on top. Also pressure rings. Consolidated Irrig. Dist. 1929 May 25
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:214 700-M-f-57 20" Venturi meter. Precast sections showing metal form for throat section which is poured in place. Pipe has 4-3/8" holes at quarter points for pressure take out. Picture taken in yard. Consolidated Irrig. Dist. 1929 May 25
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:215 700-M-f-58 Water register and weir on McDermitt rice field, Maxwell, Calif. undated
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:216 700-M-f-59 View into entrance section of Venturi meters. Tarn, Consolidated Irrig. Dist. 1929 July 10
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Box 61:217  700-M-f-61 Headgate and Venturi meter measuring device on C and K Canal below Cole Slough at Tarn. Structure equipped with three rectangular Venturi meters, with capacity of about 200 c.f.s. each. Mr. I. H. Teilman Engineer, Consolidated Irrig. Dist. 1929 May 13
   Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Slide no. 739

   Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Slide no. 740

Box 61:219  700-M-f-63 Made by the Physics Department of the University of Hawaii to produce a cheap water register. Total cost $32.50 including $15. undated
   Photographer: Physics Dept. Univ. Hawaii
Scope and Content Note

Box 61:220  700-M-f-63a Made by the Physics Dept., Univ. of Hawaii, to produce a cheap water register. Total cost $32.50 including $15.00 labor. undated
   Photographer: Physics Dept. Univ. Hawaii
Scope and Content Note

Box 61:221  700-M-f-64 Irrigation Venturi Meter mfg. by Builders Iron Foundry, Providence, R. I. Installed in outdoor hydraulic laboratory, University Farm, Davis, California 1929 June
   Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:222  700-M-f-65 Sheet metal Venturi meter installed in hydraulic laboratory Overall length 3'1"; entrance section 1'0"; throat section 7"; exit section 1'6". Diameters, ends 12", throat 7" inside 1929 October
   Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Slide no. 730

Box 61:223  700-M-f-66 12" Venturi meter before backfilling. Outdoor hydraulic laboratory, Davis, California 1929 November
   Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Slide no. 731

Box 61:224  700-M-f-67 Calibrated 12" Calco #101 slide headgate and 12" Venturi meter. Outdoor hydraulic laboratory, Davis, California 1929 December 5
   Photographer: Christiansen, Jerald Emmet
Scope and Content Note

   Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Box 61:226  700-M-f-69 Gage box with manometer tube gage on Venturi meter. Scale is adjustable to read difference in head directly. Consolidated Irrig. Dist. 1929 May 13
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:227  700-M-f-70 Precast 30 inch Venturi tubes, Consolidated Irrig. Dist. 1929 December
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:228  700-M-f-71 Precast Venturi tubes, Consolidated Irrigation District Meta forms at left for 24” meter 1929 December
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. 742

Box 61:229  700-M-f-72 Forms for flow meter measuring device. Fresno Irrig. Dist. 8", 10", 12", 12", 16" and 16" respectively 1930 January
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:230  700-M-f-73 Construction of 42-inch Venturi meters at head of Lone Tree Canal Consolidated Irrigation District. Picture furnished by I.H.Teilman 1930 March
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   No negative

Box 61:231  700-M-f-74 Indicating differential gage on Venturi meter at Tarn divide. Consolidated Irrigation District. Furnished by I. H. Teilman, Consolidated Irrigation District. 1930 March
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   No negative

Box 61:232  700-M-f-75 Orifice plate for thin plate Orifice measuring device. Outdoor Hydraulic Laboratory, Davis, California. Outside diameter 12 1/2-inches, inside diameter 7-inches. 1930 October
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:233  700-M-f-76 Two 30 inch Venturi meters being installed at head of lateral. Consolidated Irrig. Dist. 1929 December
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:234  700-M-f-77 C.V.Givan measuring flow of water in Putah Creek about 3 miles above mouth of canyon with Hoff current meter. Discharge 2.87. Ground water studies of Putah Creek Cone. 1931 August
   Photographer: J.E.C
   Scope and Content Note
Box 61:235  700-M-f-78 Discharge coefficient curves for 12-inch x 7-inch Venturi meter installed in Outdoor Hydraulic Laboratory, University Farm, Davis, from Engineering News-Record, January 29, 1931. 1930
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note
  Slide no. 743

Box 61:236  700-M-f-79 Drawing of Venturi Meter. Consolidated Irrigation District 1932 January
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note
  Slide no. 738

Box 61:237  700-M-f-80 12-inch Sparling meter, light pattern type, purchased February, 1932, for installation in Outdoor Hydraulic Laboratory, Davis, Calif. 1932
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 61:238  700-M-f-81 (3 neg.) 8-inch Sparling Meter 1932 February
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note
  Installed in Outdoor Hydraulic Laboratory Davis, California. Purchased on Requisition 32984 - F1308, February 23, 1932, $96.00

Box 61:239  700-M-f-82 Stevens water level recorder, type E 1932 August 15
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 61:240  700-M-f-83 Stevens water level recorder, type L 1933 August 18
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 61:241  700-M-f-84 Lietz water level recorder 1932 August 18
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 61:242  700-M-f-85 Stevens type L water level recorder 1932 October 21
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 61:243  700-M-f-86 (a) Lietz water level recorder (b) Stevens type L water level recorder (c) Stevens type E water level recorder undated
  Photographer:
  Scope and Content Note
  Fig. 34

Box 61:244  700-M-f-87 Battery of reliance meters, Butte Mutual Water Company, Western Canal Company near Dodgeland, Butte County undated
  Photographer: Adams, Frank
  Scope and Content Note

Box 61:245  700-M-f-88 8" portable valve meter. 1938 August 20
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note
| Box 61:246 | 700-M-f-89 Portable valve meter for measuring irrigation water. Used on 8" Snow valve, Field 7. Shows original meter before it was reconstructed with 8" standard pipe. 1937 October |
| Box 61:247 | 700-M-f-90 Venturi tube, Tisdale Irrigation Drainage Company pumping plant, Meridian, California. Robert Noah, Manager. 30" Venturi tube, "Consolidated Irrigation District" with Calco gate, and 24" tube without gate designed to measure flows from approximately 5 to 35 c.f.s. 1938 October 14 |
| Box 61:248 | 700-M-f-91 Installation of Superior Irrigation Meter, Outdoor Hydraulic Laboratory. This installation was made during fall of 1939. 30" concrete weir beyond meter is the outlet for the water from meter and also provides place for testing 8" valve meter described in Agric. Eng. 19(10):428, '38. 1940 November |
| Box 61:249 | 700-M-f-92 Superior meter installation in Outdoor Water Measurement Laboratory, Davis, California 1942 |
| Box 61:250 | 700-M-f-93-a700-M-f-93-b Automatic regulator valve developed in Ventura County by Mr. Moffat of the Limoneira Co. 1946 June |
| Box 61:251 | 700-M-f-92-c Automatic regulator valve developed in Ventura County by Mr. Moffat of the Limoneira Co. 1946 June |
| Box 61:252 | 700-M-f-93 Turning about 8 cu. ft/sec onto alfalfa check. Turlock Irrig. Dist. 1914 |
| Box 61:253 | 700-M-f-94 Pro Tata Box, are diversion into Hoff Meter, farmer's Ditch, near Lincoln, Calif. 1909 July |
| Box 61:254 | 700-M-f-95 Rating flume in Imperial Water Co. No 5 main used by C.D. Co. to measure amount of water delivered. undated |
| Box 61:255 | 700-M-f-96 Meter 1924 |
Box 61:256 700-M-f Portable brass hook gage made from 18" - 5/16" brass rod, 6" - No. 30 brass drill rod, 3" - 5/8" square brass rod, ad2 2 brass thumb screw. Total cost of material, 40 cents. Labor approximately 2 hours. 1929

Photographer: Christiansen, Jerald Emmet
Scope and Content Note
See: Card 775-24

Box 61:257 700-M-g-1 Hoff current meter 1932 August 18

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:258 700-M-g-2-1 Hoff current meter showing electric light indicator (2 negatives) 1931 August

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:259 700-M-g-2-2 Price current meter 1932 August 18

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:260 700-M-g-3 Small Price current meter without tail 1932 August 18

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:261 700-M-g-4 (a) Hoff current meter (b) Price current meter 1932 October

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:262 700-M-g-5 Typical current meter notes illustrating manner of recording the measurement of a small stream. 1934 July

Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:263 700-M-G Current Meters. undated

Photographer:
Scope and Content Note

775-10 - New small electric current meter with buoyant turbine. Made by E. J. Hoff 1918 775-11 - Current meter designed by E. J. Hoff, 1918 775-13 - Current meter built by Kern County Land and Water CO. Bakersfield

Box 61:264 700-M-z Hook gage used by Fresno Irrigation District to measure "head" on calibrated gate and on flow meters. 1929 July 8

Photographer: Christiansen, Jerald Emmet
Scope and Content Note
See card 775-25 - Fresno Irrig. Dist. hook gage. 775-24 - Portable brass hook gage made by Christiansen, Jerald Emmet 1929. 775-45 - Hoff hook gage, 1932. 775-36 - Clausen-Pierce Weir gage. 775-37 - Ditto. 775-46 - Gurley hook gage. 775-47 - Hoff hook gage - Gurley hook gage. 775-51 Hook gages for accurately determining water levels Univ. of Calif. Gurley, Hoff. 775-52 - Gurley Hoog Gage for accurate determining. 775-53 - Hook gage for accurately determining water levels Gurley. 775-54 - Hook Gage--Combination point and hook gage designed and made by Dept. of Mechanical Engineering. Univ. of Calif. Berkeley, Calif. 775-55 - Hook Gage designed and made by E. J. Hoff, Berkeley. 775-61 - Mr. Cornwell's and J. E. Christiansen's laboratory, Agricultural Engineering Eldg., Davis, for study transverse Pitot tube studies. 1939.
Box 61:265 700-M-z-1 Measuring depth of water in hole below Stevensen's Bridge, Putah Creek 1931 July
   Photographer: Givan, C.V.
   Scope and Content Note

Box 61:266 700-M-z-2 View of water measuring laboratory showing header box and Detheridge meter, undated
   Photographer: Adams, Frank
   Scope and Content Note

Box 61:267 700-M-z-3 Collins Flow Gage 1932 October
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:268 700-M-z-4 Float gage installed on 2-foot rectangular weir in Outdoor Hydraulic Laboratory, University Farm, Davis 1931 December
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:269 700-M-z-5 Collins flow gage 1932 August 15
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:270 700-M-z-6 Collins flow gage being used to measure flow of farmer's pump. Santa Clara Valley - investigation (C.V. Givan) 1934 May
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:271 700-M-z-7 Detail of measuring tank, measuring box, Montana Experiment Station run-off plots. Bozeman. 1932 May
   Photographer: Adams, Frank
   Scope and Content Note

Box 61:272 700-M-z-8 Measuring box for run-off from Montana Experiment Station erosion plots near Bozeman, Montana. H. E. Murdock standing by. 1932 May
   Photographer: Adams, Frank
   Scope and Content Note

Box 61:273 700-M-z-9 Experimental setup for determining characteristics of transverse pitot tubes. A. E. Pump laboratory. Test by J. E. Christiansen and O.C. French. 1936 October 09
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

   Photographer: Christiansen, Jerald Emmet (Western)
   Scope and Content Note
   700-M-z-10, F-1191, Fig. 1. 700-M-z-11, F-1192, Fig. 2. 700-M-z-12, F-1193, Fig. 3. 700-M-z-13, F-1194, Fig. 4. 700-M-z-14, F-1195, Fig. 5. 700-M-z-15, F-1196, Fig. 6.
| Box 61:275 | 700-M-z-16 **Color gun used for injecting fluorescein solution into concrete pipe for friction loss test. Oct. 1937. 1937 October**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
|---|---|
| Box 61:276 | 700-M-z-16 **(No neg) Irrigation practice class. Studying water measuring devices. 1922**  
Photographer: Weston  
Scope and Content Note  
Mr. Weston may have negative |
| Box 61:277 | 700-M-z-17 **Upper gaging station, Sorham Canal 1922 September 24**  
Photographer:  
Scope and Content Note |
| Box 61:278 | 700-M-z-18 **U.C. Davis undated**  
Photographer:  
Scope and Content Note |
| Box 61:279 | 700-N-a-1 **Check box for irrigating alfalfa Frank. Designed by Joshua Cowell of Mantees, Calif. 1903 August**  
Photographer: Fortier, Samuel  
Scope and Content Note |
| Box 61:280 | 700-N-a-2 **A type of wooden levee gate. undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 61:281 | 700-N-a-3 **Portuguese gate with apron. Modesto Irrigation District. Width 5'0", depth 2'0" 1929 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 61:282 | 700-N-a-4 **Portuguese gate. Width 8'0", depth 1'0". Modesto Irrigation District 1929 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
Slide no. 638 |
| Box 61:283 | 700-N-a-5 **Portuguese gate in very sandy soil. Gate sill several inches below level of land; no erosion around gate. Turlock Irrigation District 1929 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 61:284 | 700-N-a-6 **Small Redwood gate in field ditch. Width of box 2'6", depth 2'0". Single wing wall. Merced Irrigation District. 1929 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 61:285 | 700-N-a-7 **Portuguese gate. Width of gate 4'0". Sandy loam soil. Practically no erosion back of gate. Turlock Irrigation District. 1929 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
700-N-a-8 Field gate for large heads 1929 October
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-N-a-9 End view of single wall field gate showing failing condition after having been reinforced with posts. University Farm, Davis 1929 October
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-N-a-10 Single wall field gate, open, University type, note hole washed back of gate and condition of sill. University Farm, Davis 1929 October
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-N-a-11 End view of University type single wall field gate of 1" lumber showing post reinforcing necessary to prevent failure. University Farm, Davis 1929 October
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-N-a-12 Portuguese Type, single wall field gate. (lantern slide) 1929 October
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-N-a-13 University type, single wall field gate made from 1 inch lumber, good condition. University Farm, Davis 1929 October
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-N-a-14 Single wall field gate for large heads. (Lantern slide) 1929 October
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-N-a-15 University type, single wall field gate (lantern slide) 1929 October
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-N-a-16 Single wall field gate, University type, showing weakness. Made from 1 1/2" lumber. University Farm, Davis 1929 October
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

700-N-a-17 Redwood field gates in Morrow Lumber Company yard, Brawley, Calif. 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
Box 61:296  700-N-a-18  Redwood field gate made and sold by Morrow Lumber Company, Brawley, Calif. Length 3 feet, width, 18” outside, height, 8” inside. Made in lengths of 2 to 5 feet. (2 views) 1931 April
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:297  700-N-a-19  Gopher type field gate 1929 September
Photographer: Weston, E. for J.E. Christiansen
Scope and Content Note
Slide no. 719

Box 61:298  700-N-a-20  Front view, Portuguese type field gate. Rear view of same structure in negative file. 1929 September
Photographer: Weston, E. for J.E. Christiansen
Scope and Content Note
Slide no. 720-721

Box 61:299  700-N-a-21  Levee gate removed, Richvale 1916
Photographer: Scope and Content Note

Box 61:300  700-N-a-22  Wooden field gate used on North field of G.O. Griffes, Woodland 1914
Photographer: Hutchins, W.A.
Scope and Content Note

Box 61:301  700-N-a-23  Model of gopher type field gate, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932. 1932 April 18
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:302  700-N-a-24  Model of gopher type field gate, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932. 1932 April 18
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:303  700-N-a-25  Model of single wall fieldgate, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932 1932 April 18
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:304  700-N-a-26  Model of single wing wall field gate with side walls, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932 1932 April 18
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:305  700-N-a-27  Model of single wall type field gate, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932. 1932 April 27
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Box 61:306 700-N-a-28 Single wall field gate with apron. Opening 2' wide. Used on alfalfa strips on side-hill terraces, University Farm, Davis. 1942 March 03
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:307 700-N-a-28 Wooden delivery structure in Imperial Irrigation District secured from M.J. Dowd to be used for Water Measurement Bulletin, secured August 15, '34. undated
   Photographer: Dowd, M.J.
   Scope and Content Note

Box 61:308 700-N-a-29 Single wall field gate with apron. Opening 2' wide. Used on alfalfa strips on side-hill terraces, University Farm, Davis. View of closed gate. 1942 March 3
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:309 700-N-a-30 Armco irrigation gate model 161 used as field gate on alfalfa strips on side-hill terraces, University Farm, Davis. 1942 March 3
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:310 700-N-a-31 Gopher gate used as field gate on alfalfa strips on side-hill terraces, University Farm, Davis. Opening 12" high and 16" wide. 1942 March 3
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:311 700-N-a-32 Armco head gate model 150, used as field gate on alfalfa strips on side-hill terraces, University Farm, Davis. 1942 March 3
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:312 700-N-a-33 Two views of wooden field gate at alfalfa field S.W. of Woodland. Width of gate opening is about 4 ft.; ht. 2 ft. 1942 March 16
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:313 700-N-a-34 Permanent structure that has been obsoleted by erosion, southwest of Woodland. October 2, 1947. 1947 October 02
   Photographer: Johnston, C.N.
   Scope and Content Note

Box 61:314 700-N-a-35 Bulkhead check gate 1952 March
   Photographer: Marr, J.C.
   Scope and Content Note

Box 61:315 700-N-b-1 View showing method of pouring concrete slab on turnout gates. Slab 2" thick. Modesto Irrig. Dist. 1929 July 10
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:316 700-N-b-2 24" concrete turnout gate. Price complete as shown with one section of pipe $9.60. Modesto Irrig. Dist. 1929 July 10
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
Box 61:317  700-N-b-3 **Concrete turnout gate before slide guides are bolted in place. Modesto Irrig. Dist. 1929 July 10**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:318  700-N-b-4 **Concrete turnout gate with sheet metal slide for use in field ditched. Manufactured by Modesto Irrig. Dist. 1929 July 10**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. 632

Box 61:319  700-N-b-5 **Roy Wray and concrete border gate on University Farm. Used to turn water into alfalfa checks. 1929 May 1**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:320  700-N-b-6 **Calco gate No. 105 used as turnout into alfalfa check. A rather expensive installation for this use. 6" concrete headwall on both ends of concrete pipe through ditch bank. 1929 May 6**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:321  700-N-b-7 **Concrete turnout from lined ditch. Width 4'6", depth 2'3". Note double set of flashboards. Turlock Irrigation District. 1929 August**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:322  700-N-b-8 **Concrete turnout from lined ditch into alfalfa check. Two inch flashboards. No erosion back of gate. Width 4'0", depth 1'6". Turlock Irri. District. 1929 August**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. 700-N-b-2

Box 61:323  700-N-b-9 **Concrete turnout from field ditch into alfalfa check. Width 4'0", depth 1'8". No reinforcing steel. Very poor concrete. Wall formed only on one side. Cost about $8.00 complete. Turlock Irrigation District 1929 August**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:324  700-N-b-10 **Concrete turnout gate into field check. Width 4'0", depth 2'0". Turlock Irrig. District. 1929 August**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 61:325  700-N-b-11 **Concrete turnout gate in earth ditch. Very sandy soil. Gate set too high. Width 6'0", depth 2'6". Turlock Irrigation District. 1929 August**
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
Box 61:326

700-N-b-12 Concrete turnout into alfalfa check. Width 4'0" depth 2'0". Walls 4" thick. Not reinforced. Modesto Irrigation District 1929 August

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Slide no. 628

Box 61:327

700-N-b-13 Concrete structure at turnout from lateral canal into private head ditch. 5" walls, not reinforced. Modesto Irrigation District 1929 August

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 61:328

700-N-b-14 Concrete turnout into alfalfa check. Sandy soil. Bank plastered completely over. Side walls formed only on one side. Width 4'6", depth 2'0". Very light sheet metal grooves, metal projecting above gate about 6". Note erosion below structure. Floor of gate placed too high with relation to ground level below it. Turlock Irrig. Dist. 1929 August

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Slide no. 629

Box 61:329

700-N-b-15 View from below structure shown in No. Nb14 showing large hole washed out. Structure set too high. Turlock Irrigation District. 1929 August

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 61:330

700-N-b-16 Concrete turnout into alfalfa check. Note 12" drop back of gate sill. Width of gate 3'6", depth 2'0". Double set of flash boards spaced 6" apart with soil between to prevent leakage. Turlock Irrigation District. 1929 August

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Slide no. 633

Box 61:331

700-N-b-17 Concrete turnout gate into alfalfa check. Width 6'0", depth 3'0". Concrete 6" thick. Gates of 1" tongue and groove flooring. No erosion below gate. Sandy loam soil. Turlock Irrigation District. 1929 August

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 61:332

700-N-b-18 Concrete turnout gate into field check. Very sandy soil but no erosion back of structure. Note double set of flashboard grooves. Turlock Irrigation District 1929 August

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 61:333

700-N-b-19 Concrete turnout alfalfa check. View from below gate. Note double set of grooves. Turlock Irrigation District. 1929 August

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 61:334

700-N-b-20 Concrete field gate on University Farm, Davis, California 1929 October

Photographer: Christiansen, Jerald Emmet

Scope and Content Note
Box 61:335  700-N-b-21 Concrete field gate on University Farm, Davis, California 1929 October
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 61:336  700-N-b-22 Concrete turnout into alfalfa check from concrete lined private ditch.
  Turlock Irrig. Dist. 1929 August
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 61:337  700-N-b-23 Opening left in lining for field gate. Improvement District ditch. Turlock
  Irrigation District. 1931 March
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 61:338  700-N-b-24 Construction of side gate in Improvement District ditch. Turlock Irrigation
  District. 1931 March
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 61:339  700-N-b-25 Concrete field gate in unlined ditch, constructed by Andrew Certa, Route
  1, box 68, Crow’s Landing, Calif. 1931 March
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note
  Cost of material---$11.00. Labor estimated at $4.00 per man per day---$16.00. Total cost
  $27.00.

Box 61:340  700-N-b-26 Construction of field gate in lined ditch. Improvement District work. Turlock
  Irrigation District 1931 March
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 61:341  700-N-b-27 Concrete field gate in lined ditch. Turlock Irrigation District 1931 March
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 61:342  700-N-b-28 Construction of field gate in lined ditch after lining is placed. Improvement
  District ditch. Turlock Irrigation District. 1931 March
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 61:343  700-N-b-29 Field gate made of concrete pipe. Manufactured by Imperial Valley
  Concrete Co., El Centro, Calif., in sizes 6-inches to 24-inches. Prices range from $2.25
  to $9.75, subject to discounts for cash and large orders. 1931 April
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 61:344  700-N-b-30 Field gate made of concrete pipe. Manufactured by Brawley Concrete Co.,
  Brawley, California, in sizes from 6-inches to 24-inches. Prices $1.75 to $7.00. (2
  views) 1931 April
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note
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<tr>
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<th>700-N-b-31 12-inch Vitrified clay sewer pipe used as field gate. Watkins Bros. Ranch south of Davis. 1931 August</th>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Box 61:346</td>
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<tr>
<td>Box 61:347</td>
<td>700-N-c-1 Check gate set in levee, check system of irrigating, Modesto Irrigation District, Calif. undated</td>
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<td>Photographer:</td>
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<td>Box 61:348</td>
<td>700-N-c-2 Calco No. 105 gate used as a check gate in field ditch. Thompson Bros., Fresno. Note rip-rap below structure to prevent erosion. 1929 May 1</td>
</tr>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Scope and Content Note</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Box 61:350</td>
<td>700-N-c-4 Portuguese gate used as stop gate in private ditch. Very satisfactory if properly installed. Merced Irrigation District. 1929 August</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Slide no. 639</td>
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<td>Box 61:351</td>
<td>700-N-c-5 Concrete check gate in field ditch. Width 6'0&quot;, depth 3'6&quot;. Very sandy soil but no erosion below gate. Gate sill set about 6&quot; to 9&quot; below grade of ditch. Note whitewash. Turlock Irrigation District. 1929 August</td>
</tr>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Scope and Content Note</td>
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<td>Box 61:352</td>
<td>700-N-c-6 Precast check gate in private ditch. Brookhart Ranch, adjoining West Stanislaus Irrig. Dist. Walls 2&quot; thick, reinforced with 1/4&quot; round bars. 1929 August</td>
</tr>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Slide no. 641</td>
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<tr>
<td>Box 61:353</td>
<td>700-N-c-7 Portuguese gate with apron used as stop gate in private ditch. Modesto Irrigation District. Width of openings 3'6&quot;. 1929 August</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Box 61:354</td>
<td>700-N-c-8 Double wing wall gate, University type. University Farm, Davis 1929 October</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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| Box 61:355 | 700-N-c-9 Double wing wall stop gate from lower side showing extent of hole washed out below gate. Shows need for deep cut-off walls University Farm, Davis 1929 October
| Box 61:356 | 700-N-c-10 University type, double wing wall field gate (lantern slide) 1929 October
| Box 61:357 | 700-N-c-11 Stop gate in Main lateral, University Farm, Davis, Calif. Outlet gates on diagonal is not satisfactory 1929 October
| Box 61:358 | 700-N-c-12 Stop gate and side gate on improvement district ditch. Turlock Irrigation District. 1931 March
| Box 61:359 | 700-N-c-13 Construction of stop gate in Improvement District ditch, Turlock Irrigation District. 1931 March
| Box 61:360 | 700-N-c-14 Portable 18 gage galvanized iron check structure used in field ditches, Agronomy Division, University Farm, Davis, Calif. 1932 April
| Box 61:361 | 700-N-c-15 Portable 18 gage galvanized iron check structure used in field ditches, Agronomy Division, University Farm, Davis, Calif. 1932 April
| Box 61:362 | 700-N-c-16 Double wing wall stop gate and drop in head ditch for alfalfa strips on side-hill terraces, University Farm, Davis. 1942 March 3
| Box 61:363 | 700-N-c-17 Canvas check dams being used for irrigating alfalfa near Davis, Calif. 1950 August
| Box 61:364 | 700-N-d-1 Galvanized sheet metal furrow tube. Sold by Imperial Valley Concrete Company for 65 cents. Length 3 feet, diameter 3". Made by Snow Mfg. Co. 1931 April

Inventory of the Department of Irrigation Photographs
Box 61:365
700-N-d-2 Redwood furrow tubes in Morrow Lumber Company yard, Brawley, Calif. 1931 April
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:366
700-N-d-3 Redwood furrow tubes sold by Morrow Lumber Co., Brawley, Calif. Sizes: top, 1 1/4" round; center, 1 1/8 x 1 1/2" elliptical; bottom, 1 1/4" x 1 2/3", oval. Lengths, usual 2 feet; occasionally demanded up to 3 feet. (2 views) 1931 April
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:367
700-N-d-4 Concrete furrow tube. Made and sold by Imperial Valley Concrete Co., El Centro, Calif. Length 32", diameter of hole, 2". Sells for 45 cents. Usually installed with gate at downstream end for convenience. 1931 April
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:368
700-N-d-5 Lath tube in head ditch. Fresno County. 1916 June
Photographer: Robertson, Ralph
Scope and Content Note

Box 61:369
700-N-d-6 Siphoning tubes from irrigation ditches for irrigating crops such as beets. Made from 2" leader pipe. 1939 November 21
Photographer: LDD
Scope and Content Note

Box 61:370
700-N-z-1 Wooden Furrow Dam, Pajaro Valley, Cal. 1915 August 31
Photographer: Hutchins, Wells A.
Scope and Content Note
This type of dam, with a section cut from the top to permit water to flow over into the next length of furrow, is sometimes used in Pajaro Valley to take the place of the earth dam. This picture also shows the cracks in the soil which result from failing to cultivate after irrigating. Such a condition is typical of clay loam soils in this vicinity. Lighter soils, of course, do not bake to such a great degree.

Box 61:371
700-N-z-2 Metal Dam for Orchard Irrigation, Winton, California. 1916 July
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 61:372
700-N-z-3 Box used at outlet of private drains into the irrigation district’s drainage system. Also used as turnouts from canals to flood roadways, etc. Boxes built by irrigation district and sold to farmers. 1931 April
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:373
700-N-z-4 Galvanized iron boxes for protection of ditch banks at cut into alfalfa check. Agronomy Division, University Farm, Davis 1932 April
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:374
700-N-z-5 Land leveler, Montana Experiment Station Farm, Bozeman. 1932 May
Photographer: Adams, Frank
Scope and Content Note
| Box 61:375 | 700-O-1 End of section of concrete retaining wall showing method of making water tight joint, Snake Ravine, Turlock Canal, Calif. undated  
Photographer: Adams, Frank  
Scope and Content Note |
|---|---|
| Box 61:376 | 700-O-2 Excavating for concrete retaining wall in Snake Ravine, Turlock Canal, Calif. undated  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 61:377 | 700-P-25 Outlet, Reservoir No. 255, Fairmead, California. 1916 March 2  
Photographer: Hutchins, Wells A.  
Scope and Content Note |
| Box 61:378 | 700-P-26 Constructing New Outlet Gate, Alfred Davis Reservoir, Turlock Irrigation District, California. 1915 December 1  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This outlet gate was constructed to take the place of the preceding gate which went out during the summer of 1914. |
| Box 61:379 | 700-P-27 Outlet, Schmidt Bros. Reservoir, Fairmead, California. 1916 March 2  
Photographer: Hutchins, Wells A.  
Scope and Content Note |
| Box 61:380 | 700-P-28 Outlet, Reservoir of Clayton Chandler, Orland, California. 1916 March 7  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This device is constructed entirely of wood. |
| Box 61:381 | 700-P-29 Outlet of Clear Lake, Lake County, Cal. 1914 November 28  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This shows Cache Creek, looking up-stream from the impounding dam of the Yolo Water and Power Co., near Lower Lake, Cal. |
| Box 61:382 | 700-P-30 Outlet to Reservoir of Joseph Malhauser, Orland, California. 1916 March 7  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This outlet is constructed of concrete with a corrugated pipe through the bank to deliver the water into a concrete lined canal. |
| Box 61:383 | 700-P-31 One of the Concrete Outlet Towers of the San Fernando Reservoir. undated  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 61:384 | 700-P-35 Vitrified pipe outlet of earthen reservoir, Whittier, Calif. undated  
Photographer:  
Scope and Content Note |
| Box 61:385 | 700-P-36 Outlet to Dallas Lake Reservoir, Modesto Irrigation District, Calif. 1912 June  
Photographer: F.C.S.  
Scope and Content Note |
Box 61:386 700-P-37 (No neg) **Outlet Silver Lake Reservoir**, undated
Photographer: Adams, Frank
Scope and Content Note

Box 61:387 700-P-38 **Outlet Tunnel Meselbeck Reservoir**, **Happy Valley Irrigation District**. 1919 October 31
Photographer: Adams, Frank
Scope and Content Note

Box 61:388 700-P-39 **Downstream view of Outlet structure from Owen Reservoir** (**Davis Reservoir**) **Turlock Irrigation District** 1929 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:389 700-P-40 **Outlet gates from Owen Reservoir** (**Davis Reservoir**) **Turlock Irrigation District** 1929 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:390 700-Q-1 **Concrete Bridge Gate Structure on Orland Project, California**. 1914
Photographer: J.T.K.
Scope and Content Note

Box 61:391 700-Q-4 **Farm wagon bridge across small lateral ditch**. **Orland Project, U.S. Reclamation Service**, Orland, Calif. 1914 November
Photographer: J.T.K.
Scope and Content Note

Box 61:392 700-Q-5 **Farm wagon bridge across small lateral ditch**, **Orland Project U.S. Reclamation Service**, Orland, Calif. 1914 November
Photographer: J.T.K.
Scope and Content Note

Box 61:393 700-Q-6 **High Railroad bridge over Exchequer Reservoir**. 1926 April 30
Photographer: Adams, Frank
Scope and Content Note

Box 61:394 700-Q-7 **Paving entrance structure to syphon under roadway**. **West Stanislaus Irrigation District** 1929 August
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:395 700-Q-8 **Mud sill bridge over large lateral**. **Imperial Irrigation District**. Stringers 18" x 6" x 26" spaced 2 feet apart. Two-inch x twelve-inch flooring. 1931 April
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 61:396 700-Q-9 **Culverts under highway**, **Nevada Irrigation District** undated
Photographer: Adams, Frank
Scope and Content Note
Box 61:397  700-Q-10 Entrance to culverts on Nevada Irrigation District undated
    Photographer: Adams, Frank
    Scope and Content Note

Box 61:398  700-Q-11 Silt sampling station, bridge in Victor Valley used as a silt sampling station.
            1917
    Photographer: Veihmeyer, Frank J.
    Scope and Content Note

Box 61:399  700-Q-12 (No neg) Golden Gate Bridge taken from Lincoln Park, San Francisco. No
            negative. 1935 October 30
    Photographer: Adams, Frank
    Scope and Content Note

Box 61:400  700-Z General Electric pitot tube for measuring water in closed conduits (see 775-30)
            1931 August
    Photographer: Givan, C.V.
    Scope and Content Note

Box 61:401  700-Z-9 Tunnel into Bed of Big Rock Creek, Antelope Valley, Cal. 1915 June 30
    Photographer: Hutchins, Wells A.
    Scope and Content Note
    This tunnel was constructed for a distance of about 1/2 mile into the bed of this creek, by
    the Big Rock Creek Irrigation District in its early days. The supply or water thus yielded
    was disappointing. Although the surface flow in the creek was greater than normal at this
time (June 30, 1915), nevertheless the tunnel was yielding a very small quantity of water
    as shown in the picture. This small supply is utilized by the present District in addition to
    the surface flow of the creek.

Box 61:402  700-Z-10 Dredge Back of Pumping Plant of Sacramento Valley Irrigation Co., Above
            Hamilton City, Cal. 1915 August 19
    Photographer: Hutchins, Wells A.
    Scope and Content Note
    This dredge is used for keeping clear the slough leading from the main channel of the
    Sacramento River to the pumping plant.

Box 61:403  700-Z-11 Western Canal Showing Drainage Crossing, Nelson Butte County, California.
            1916 September
    Photographer: Robertson, Ralph D.
    Scope and Content Note

Box 61:404  700-Z-12 Western Canal showing Drainage Crossing. Nelson, Butte County, California.
            1916 September
    Photographer: Robertson, Ralph D.
    Scope and Content Note

Box 61:405  700-Z-13 Western Canal showing Drainage Crossing, Nelson Butte County, California.
            1916 September
    Photographer: Robertson, Ralph D.
    Scope and Content Note
Box 61:406 700-Z-15 (No neg) **Newly Constructed Bridge over Lateral, Orland Project, California. 1914**

Photographer: J.L.K.
Scope and Content Note
See 700-Q-5

Box 61:407 700-Z-16 (No neg) **Rairden Fill, Down-Stream Side and Looking Down Canal, Modesto Irrigation District, California. undated**

Photographer: Hutchins, Wells A.
Scope and Content Note

Box 61:408 700-Z-17 (No neg) **Outlet, Lower Otay filter, San Diego Co. (See 700-Z-18) 1929**

Photographer: Adams, Frank
Scope and Content Note

Box 61:409 700-Z-18 (No neg) **Lower Otay filter, San Diego Co. (See preceding view) 1929**

Photographer: Adams, Frank
Scope and Content Note

Box 61:410 710-A-1 **Main Canal, Sacramento Valley Irrigation Co., East of Willows 1915 June 5**

Photographer: Hutchins, Wells A.
Scope and Content Note

Box 61:411 710-A-2 **Main Canal, Sacramento Valley Irrigation, Co., Willows, Cal. 1915 June 3**

Photographer: Hutchins, Wells A.
Scope and Content Note
A continuation of the old Central Irrigation District Canal.

Box 61:412 710-A-3 **Main Canal, Sacramento Valley Irrigation Co., Willows, Cal. 1915 June 3**

Photographer: Adams, Frank
Scope and Content Note
This is a continuation of the old Central Irrigation District Canal

Box 61:413 710-A-4 **Ceres Main Canal, Turlock Irrigation District, Cal. 1915 July 29**

Photographer: Hutchins, Wells A.
Scope and Content Note

Box 61:414 710-A-5 **Main Canal, Sacramento Valley Irrigation Co., Northeast of Willows, Cal. 1915 June 5**

Photographer: Hutchins, Wells A.
Scope and Content Note
The grade of this canal is so slight that when the water is backed up by the check-drop shown in Picture No. the velocity is almost unnoticed.

Box 61:415 710-A-6 **Main Supply Canal, Brown's Valley Irrigation District, Yuba County, Cal. 1915 June 7**

Photographer: Hutchins, Wells A.
Scope and Content Note
This shows the flume located just above the penstock at the lower power house.
Box 61:416 710-A-7 Main Canal, Brown's Valley Irrigation District, Yuba Co., Cal. 1915 June 7
Photographer: Hutchins, Wells A.
Scope and Content Note
This is looking down the canal as it leaves the lower power house of the Pacific Gas and Electric Co.

Box 61:417 710-A-8 Lateral Ditch, Big Rock Creek Irrigation District, Cal. 1915 June 30
Photographer: Hutchins, Wells A.
Scope and Content Note
This particular lateral supplies the truck gardens which are operated by the Llano del Rio Colony.

Box 61:418 710-A-9 East Main Ditch, Big Rock Creek Irrigation District, Cal. 1915 June 30
Photographer: Hutchins, Wells A.
Scope and Content Note
The fall of the country is considerable from the hills to the north and many drops in the canal are necessitated. These are provided, as shown in the picture, by piling up a few stones. Although the soil is very light, being a sandy loam formed from decomposed granite, erosion is not nearly so great as would be expected.

Box 61:419 710-A-10 Headgate and Main Canal, Settlers Irrigation District, on Boise River, Idaho. 1916 December 25
Photographer: Hutchins, Wells A.
Scope and Content Note
Water is brought from the Boise River through a channel to the headgate shown in this picture.

Box 61:420 710-A-11 Main Canal, Cascade Irrigation District, Washington. 1916 November 18
Photographer: Hutchins, Wells A.
Scope and Content Note
On the right is shown the concrete delivery gate with pipe through bank discharging into the box shown in Picture No.

Box 61:421 710-A-12 West Branch Snake River Valley Canal, Snake River Valley Irrigation District, Idaho. 1916 December 17
Photographer: Hutchins, Wells A.
Scope and Content Note

Box 61:422 710-A-13 Canal and Heading, Central Irrigation District, Nebraska. 1916 December 6
Photographer: Hutchins, Wells A.
Scope and Content Note

Box 61:423 710-A-14 Similar to Picture No. 700-F-127 Undated
Photographer: Adams, Frank
Scope and Content Note

Photographer: Robertson, Ralph D.
Scope and Content Note

Box 61:425 710-A-16 Portion of Main Canal of Tulare Irrigation District, California. undated
Photographer: Adams, Frank
Scope and Content Note
| Box 61:426 | 710-A-17 Typical Section of Canal and New Portion of Orland Project, California. 1914 |
| Box 61:427 | 710-A-18 (No neg) Typical Section of Canal and New Portion of Orland Project, California. 1914 |
| Box 61:428 | 710-A-19 Lateral of Imperial Water Company No. 3. Parallel to Van Horn Lateral of Imperial Northside Water Company. California 1917 May 31 |
| Box 61:429 | 710-A-20 Upper Canal River Garden Farms Company near Knights Landing, California 1917 May 2 |
| Box 61:430 | 710-A-21 Van Horn Lateral, Imperial Northside Water Co. California 1917 May 31 |
| Box 61:431 | 710-A-22 Remains of old ditch on the Bert Clark place west of Rowen Station in the Tehachapi Mountains. 1917 November |
| Box 61:432 | 710-A-23 Section of Old Lake Land Canal below Corcoran, California. 1917 August |
| Box 61:433 | 710-A-24 Tarr Ditch Crossing China Ditch near Smartsville California 1917 May 18 |
| Box 61:434 | 710-A-25 Dredger Cut, Old River to Pump House, Westside Irrigation District. 1918 May 2 |
Box 61:435  710-A-26 Crocker-Huffman Canal leading through the foothills. 1918 June 20
   Photographer: Adams, Frank
   Scope and Content Note
   Eucalyptus trees along the lower bank give evidence of the age of the canal.

Box 61:436  710-A-27 Crocker-Huffman Canal. undated
   Photographer: Adams, Frank
   Scope and Content Note

Box 61:437  710-A-28 Canal of Western States Gas & Electric Company, El Dorado County, near Placerville. 1918 October
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 61:438  710-A-29 Intake of the main canal of Western States Gas & Electric Company on the south fork of the American River. 1918 October
   Photographer: F.G.V.
   Scope and Content Note
   A low rock dam across the river with short intake provided with spillway with housing for gate structure is shown in the left background. During the summer months a wooden sharp-crested weir is constructed under the dam for the purpose of measuring water used for hydro-electric power development in the American River plant of the company near Placerville.

Box 61:439  710-A-30 Main ditch of the Western States Gas and Electric Company below intake over a hillside construction. 1918 October 6
   Photographer: F.G.V.
   Scope and Content Note

   Photographer: Tait, C.E.
   Scope and Content Note

Box 61:441  710-A-32 (No neg) Cerro Prieto Canal, California, Looking East. Cerro Prieto or Black Butte in distance. 1917 January 5
   Photographer: Tait, C.E.
   Scope and Content Note

Box 61:442  710-A-34 (No neg) Lateral from Eucalyptus Canal, Imperial Valley, California. 1916
   Photographer: Tait, C.E.
   Scope and Content Note

   Photographer: Tait, C.E.
   Scope and Content Note

Box 61:444  710-A-36 Ditch near Blythe, Palo Verde Valley, Calif. 1913 August
   Photographer: Tait, C.E.
   Scope and Content Note
Box 61:445  710-A-37 Canal on Cache Creek taken from wagon bridge, looking upstream in evening, Calif. 1900 May 23
Photographer:
Scope and Content Note

Box 61:446  710-A-38 Old Cacheville Ditch, Calif. 1900
Photographer: Adams, Frank
Scope and Content Note
First ditch used in Yolo County. Above Stevens' bridge and a few hundred feet below Gordon slough. The portion of which is shown in the picture was used as the lower end of D.Q. Adams' ditch.

Box 61:447  710-A-39 Eucalyptus lateral, Imperial Valley, Calif. 1915
Photographer: Tait, C.E.
Scope and Content Note

Box 61:448  710-A-40 Irrigation ditch, Calif. undated
Photographer: Tait, C.E.
Scope and Content Note

Box 61:449  710-A-41 Outlet of upper tunnel showing portion of waste gates on left, Turlock Canal, Calif. undated
Photographer: Adams, Frank
Scope and Content Note

Box 61:450  710-A-42 Palo Verde canal near Blythe. 1914 December
Photographer: Tait, C.E.
Scope and Content Note

Photographer: Tait, C.E.
Scope and Content Note

Box 61:452  710-A-44 Ruins of Old Stevens' ditch. 1900
Photographer: Adams, Frank
Scope and Content Note
View taken about one fourth of a mile above Capay, Calif.; ditch has not been in use for a number of years, abandoned on account of litigation.

Box 61:453  710-A-47 Obstructions in main canal of Raywood Rice Canal and Milling Company, near Raywood, Texas. 1901 February
Photographer: F.B.
Scope and Content Note

Box 61:454  710-A-72 Adams' ditch, Calif. Ten feet below dam. One foot of water carried. 1900
Photographer: Adams, Frank
Scope and Content Note

Box 61:455  710-A-73 Moore Ditch, Calif., showing obstruction; watergrass of very rapid growth. 1900
Photographer: P.A.
Scope and Content Note
Box 61:456  710-A-74 Moore Ditch, Calif., showing obstruction. 1900
Photographer: Adams, Frank
Scope and Content Note

Box 61:457  710-A-75 Channel of main canal of Alpaugh Irrigation District fouled with tules. undated
Photographer: Adams, Frank
Scope and Content Note

Box 61:458  710-A-76 Portion of Alpaugh Irrigation District Canal from which tules have been removed by burning, etc. undated
Photographer: Adams, Frank
Scope and Content Note

Box 61:459  710-A-77 Looking down the head of Alpaugh Irrigation District Canal from collecting ditches at Smyrna. 1919 November
Photographer: Adams, Frank
Scope and Content Note
Note width form bank to bank, small size of stream and foul channel.

Box 61:460  710-A-78 Channel of main canal of Alpaugh Irrigation District fouled with tules. undated
Photographer: Adams, Frank
Scope and Content Note

Box 61:461  710-A-79 Dredged section of Alpaugh Irrigation District Ditch near Alpaugh. undated
Photographer:
Scope and Content Note
The cost of this cleaning of the canal was so high that the irrigation district directors ordered the district's dredge scrapped and sold.

Box 61:462  710-A-80 One of the main canals from Bishop Creek, Owens River Valley. 1920 April
Photographer: Adams, Frank
Scope and Content Note

Box 61:463  710-A-82 Looking down Placerville Ditch, El Dorado County, from headgate. 1919 August
Photographer: Adams, Frank
Scope and Content Note

Box 61:464  710-A-83 Intake, Westside Irrigation District, 1918 1918
Photographer: Adams, Frank
Scope and Content Note

Box 61:465  710-A-84 Main canal of Montague Water Conservation District at headgate of penstock of hydraulic pumping plant. Looking east. 1928 July 21
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
(a) Main canal (b) Canal supplied by pumping plant Montague Water Conservation Dist.
(Christiansen, Jerald Emmet July 21, 1928)
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Photographer: Beckett, Samuel H.  
Scope and Content Note |
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| 61:468 | 710-A-87 | Small lateral maintained by hand shoveling. Imperial Irrigation District. Note amount of material on banks that has recently been shoveled out of ditch. 1931 April  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| 61:469 | 710-A-88 | Small lateral on high fill. Imperial Irrigation District. 1931 April  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| 61:470 | 710-A-89 | A lateral, Imperial Irrigation District 1932 March 1  
Photographer: Adams, Frank  
Scope and Content Note |
| 61:471 | 710-A-90 | (2 negatives) Field ditch made with disc ridger. Agronomy Division, University Farm, Davis. 1932 April  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| 61:472 | 710-A-91 | Old Clear Lake, northwest ditch below Rumsey, Calif. Ruinss of portion of old Clear Creek Water Works ditch which took water from above Rumsey ditch now used to supply water for about 800 acres-Summer of 1900-Frank Adams undated  
Photographer:  
Scope and Content Note |
Photographer: Adams, Frank  
Scope and Content Note |
Photographer: Adams, Frank  
Scope and Content Note |
| 61:475 | 710-A-94 | This picture shows the Vacanora Canal of the Baja California Canal Co. 1926  
Photographer: Adams, Frank  
Scope and Content Note |
| 61:476 | 710-A-95 | Typical branch canal, Imperial Irrigation District. Fig. 2 in Bull. 21. undated  
Photographer: Adams, Frank  
Scope and Content Note |
Photographer: Adams, Frank  
Scope and Content Note |
| Box 61:478 | 710-A-97 Fig. 11 in International Commission report, House Document 359, United States and Mexico, showing Cerro Prieto Canal, main west side of Imperial Canal in Mexico. 1928  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 61:479 | 710-A-98 Fig. 3, page 112, House Document No. 359, International Water Commission report. Looking north across Gila River Valley, Arizona toward Muggins Mountains from highway east of Wellton. 1928  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 61:480 | 710-A-99 Main canal and parallel drainage canal, Wapato Indian Irrigation Project, Yakima Valley, Washington. 1932  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 61:481 | 710-A-100 Main canal, Wapato Indian Irrigation Project, Washington. 1932  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 61:482 | 710-A-101 Main Canal, Shasta View. Malin I.D. Orland project. 1929  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 61:483 | 710-A-102 West side at lower gaging station looking East 1923 January 14  
Photographer:  
Scope and Content Note |
| Box 61:484 | 710-A-103 Untitled undated  
Photographer:  
Scope and Content Note |
| Box 61:485 | 710-A-103 Bard Canal undated  
Photographer:  
Scope and Content Note |
| Box 61:486 | 710-A-104 Gaging Section - Alla Main Canal 1922 October  
Photographer:  
Scope and Content Note |
| Box 61:487 | 710-A-105 Pool #6 - West of Cottonwood looking downstream 1922 November  
Photographer:  
Scope and Content Note |
| Box 61:488 | 710-A-106 Untitled undated  
Photographer:  
Scope and Content Note |
Box 61:489  710-A-107 Irrigation Channel, Hyuso farm - Lucerne Irrigation Australia 1907 December 13
   Photographer: 
   Scope and Content Note

Box 61:490  710-A See-L-b-83. Irrigation lateral, Oakdale, Irrigation District, being repaired with 24" concrete pipe. undated
   Photographer: 
   Scope and Content Note

Box 62:1  710-B-a-1 Lining of Main Canal, Modesto Irrigation District, California. 1915 December 5
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   The slope of the sides was 2:1

Box 62:2  710-B-a-2 Concrete Lining, Morgan Fill, Turlock Irrigation District, California. 1915 December 1
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This shows where the lining joins the retaining wall at the lower end of the fill. The curvature in the bottom lining of the fill is perceptible in this picture. The presence of this curvature allows an inspection to be made of the bottom of the lined section after the water has been turned out, in spite of the fact that pools of water are usually left in the bottom.

Box 62:3  710-B-a-3 Concrete Inlet to Reservoir Through Mockingbird Canyon Lake Dam, Riverside, California. 1915 December 14
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 62:4  710-B-a-4 Installing Concrete Side Lining, Above and Adjacent to Peaslee Fill, Turlock Irrigation District, Cal. 1915 December 1
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This picture shows the warped transition.

Box 62:5  710-B-a-5 Main Canal. Little Rock Creek Irrigation District, Cal. 1915 June 29
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This section of the canal is between the cienega and the boundary of the District. The metal flume in the background is crossing a swale.

Box 62:6  710-B-a-6 Winters Canal, Yolo Water and Power Company, Yolo County, Cal. 1914 November 27
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This shows the concrete lined section looking up-stream from the radial gates at the fork of Winters and Madison Canals.
Box 62:7  710-B-a-7 Concrete-lined Main Ditch. Little Rock Creek Irrigation District, Cal. 1915
       June 29
       Photographer: Hutchins, Wells A.
       Scope and Content Note

Box 62:8  710-B-a-8 Adams Canal of the Yolo Water and Power Co., Yolo County, Cal. 1914
       November 27
       Photographer: Hutchins, Wells A.
       Scope and Content Note
       The picture, showing the concrete lined section, was taken from just below the headgate of Adams Canal. This canal supplies lands on the north side of Cache Creek in Yolo County.

Box 62:9  710-B-a-9 Turlock Canal Just Below the Heading at La Grange Dam, Cal. 1915 July 31
       Photographer: Hutchins, Wells A.
       Scope and Content Note
       On the right is the concrete retaining wall and on the left is a formation of slate rock.

Box 62:10 710-B-a-10 Heading of Modesto Canal at La Grange Dam, Tuolumne River, Cal. 1915
        July 31
       Photographer: Hutchins, Wells A.
       Scope and Content Note

Box 62:11 710-B-a-11 Concrete Ditch, Crocker-Huffman Canal, Merced, Cal. 1916 July
       Photographer: Robertson, Ralph D.
       Scope and Content Note

Box 62:12 710-B-a-12 Main Canal, Walnut Irrigation District, California. undated
       Photographer: Adams, Frank
       Scope and Content Note
       This little district was organized under the original Wright Law in 1893, and is the single exception of the old Wright irrigation districts in California that has continued its organization with entire success and without any financial difficulties whatever. Possibly the secret of the success of this small enterprise lies in the fact that it never issued any bonds but has raised all of its money by water tolls and direct taxes. Another reason is that it lies in a rich and well developed section.

Box 62:13 710-B-a-13 Lined section of south San Joaquin canal undated
       Photographer: 
       Scope and Content Note

Box 62:14 710-B-a-14 Newly Lined Canal, Showing Check and Outlet Gate on Orland Project, California. 1914
       Photographer: J.L.K.
       Scope and Content Note

Box 62:15 710-B-a-15 Lined section of south San Joaquin canal 1910
       Photographer: Adams, Frank
       Scope and Content Note

Box 62:16 710-B-a-16 Setting concrete lining in south San Joaquin canal. undated
       Photographer: 
       Scope and Content Note
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<td>Photographer: Hutchins, Wells A.</td>
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<td>Box 62:18</td>
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<td>Concrete lined section of Moore Canal, Yolo Water and Power Company, looking upstream from locality of Stephens Bridge. Concrete lining installed winter of 1912-13. 1914</td>
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<td>Photographer: Hutchins</td>
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<td>Box 62:19</td>
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<td>Section (dry) of Turlock Canal, showing concrete lining of lower wall, Calif. undated</td>
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<td>Photographer:</td>
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<td>Scope and Content Note</td>
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<td>Box 62:20</td>
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<td>Orland Project, U.S. Reclamation service, Orland, Calif. Concrete lined canal adjoining town. 1914</td>
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<td>Photographer: J.T.K.</td>
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<td>Scope and Content Note</td>
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<td>Box 62:21</td>
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<td>Concrete lined canal, Orland Project, U.S. Reclamation Service, Orland, Calif. 1914 November</td>
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<td></td>
<td>Photographer: J.T.K.</td>
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<td>Box 62:22</td>
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<td>Orland Project, U.S. Reclamation Service, Orland, Calif. Concrete lined canal adjoining town on the southeast, looking east. 1914</td>
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<td>Photographer: J.T.K.</td>
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<td>Box 62:23</td>
<td>710-B-a-54</td>
<td>Gage Canal, cement lined showing check, Riverside, Calif. 1903 December</td>
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<td>Photographer: Fortier, Samuel</td>
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<td>Box 62:24</td>
<td>710-B-a-56</td>
<td>Los Angeles Aqueduct. Laying slabs to complete sides and laying bottom. 1910</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Box 62:25</td>
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<td>Los Angeles Aqueduct, finished canal. 1910</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Box 62:26</td>
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<td>View on ditch at Folsom prison, Calif. Taken from top of headgate looking down stream toward the prison. undated</td>
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<td>Photographer:</td>
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<td>Box 62:27</td>
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<td>Santa Ana Canal, Near Orange, Calif. 1913 August</td>
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<td>Photographer: Tait, C.E.</td>
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Box 62:28 710-B-a-64 *Los Angeles Aqueduct. Trimming sides and placing guide boards for concrete. 1910*
   Photographer: Tait, C.E.
   Scope and Content Note

Box 62:29 710-B-a-68 *Concrete lining Riverside Water Co. canal. 1915 July*
   Photographer: Tait, C.E.
   Scope and Content Note

Box 62:30 710-B-a-69 *Oiled banks, Riverdale Water Co. Canal. 1915 July*
   Photographer: Tait, C.E.
   Scope and Content Note

Box 62:31 710-B-a-70 *Lining ditch, concrete finished, Imperial Water Co. No. 3. 1915 January*
   Photographer: Tait, C.E.
   Scope and Content Note

Box 62:32 710-B-a-72 *Lining ditch, ready for concrete. Imperial W.Co. #3 1915 January*
   Photographer: Tait, C.E.
   Scope and Content Note

Box 62:33 710-B-a-73 *Lining ditch, concrete poured, Imperial W.Co. #3. 1915 January*
   Photographer: Tait, C.E.
   Scope and Content Note

Box 62:34 710-B-a-74 *Covina canal showing old cement plaster lining. 1915*
   Photographer: Tait, C.E.
   Scope and Content Note

Box 62:35 710-B-a-75 *Lined section of sandy strip in lateral of People’s Ditch near Hanford, California. 1917 August*
   Photographer: Adams, Frank
   Scope and Content Note
   Bottom width 7 feet; vertical depth, 3 1/2 feet; side slope, 1 1/2 to 1; thickness 2 1/4 inches; proportion 1:2:4; grade .06 feet per 100 feet; reinforcing 5 1/2 No. 14 wire; cost, 11 per square foot.

Box 62:36 710-B-a-76 *Low level canal of Lindsay Strathmore Irrigation District leading from the main pumping plant to the main booster station. 1918 May 7*
   Photographer: Adams, Frank
   Scope and Content Note
   This was formerly the old Merryman Ditch but was enlarged and concrete lined with a cement gun by the irrigation district. The water formerly carried in the Merryman Ditch is now conveyed in a pipe line paralleling the main enlarged ditch.

Box 62:37 710-B-a-80 *Section of finished canal lined with gunite. Lindsay-Strathmore Irrigation District, August, 1917. 1917 August*
   Photographer: Adams, Frank
   Scope and Content Note

Box 62:38 710-B-a-83 *(No neg) Lytte Creek at Head of Fontana Ditch, California. undated*
   Photographer: Tait, C.E.
   Scope and Content Note
Box 62:39 710-B-a-84 Ditch, San Antonio Water Company, Ontario, California. undated
   Photographer: Tait, C.E.
   Scope and Content Note

Box 62:40 710-B-a-87 Lower end of the Cascades on the Los Angeles Aqueduct, near San
   Fernando Reservoir, Los Angeles, Calif. 1914 December
   Photographer: J.T.K.
   Scope and Content Note

Box 62:41 710-B-a-88 Upper end of the Cascades on the Los Angeles Aqueduct near San
   Fernando Reservoir, Los Angeles, Calif. 1914 December
   Photographer: J.T.K.
   Scope and Content Note

Box 62:42 710-B-a-89 Cascades on the Los Angeles Aqueduct, near San Fernando Reservoir, Los
   Angeles, Calif. 1914 December
   Photographer: J.T.K.
   Scope and Content Note

Box 62:43 710-B-a-90 Cascades on the Los Angeles Aqueduct, near San Fernando Reservoir, Los
   Angeles, Calif. 1914 December
   Photographer: J.T.K.
   Scope and Content Note

Box 62:44 710-B-a-91 Concrete Ditch, California. 1915
   Photographer: Tait, C.E.
   Scope and Content Note
   Concrete ditch of either Azusa Irrigating Company or Covina Irrigation Company (not sure
   which) The main ditch diverts for both companies from San Gabriel River, runs through
   Azusa Irrigating Company, and on to Covina Irrigation Company. Not sure which owns at
   this point.

Box 62:45 710-B-a-92 Laying Concrete Lining on the Los Angeles Aqueduct in Owen's River
   Valley, California. 1910
   Photographer: Tait, C.E.
   Scope and Content Note
   Note slabs are laid alternately.

Box 62:46 710-B-a-95 Main canal of the Fresno Canal and Irrigation Company, Fresno, Calif. 1914
   December
   Photographer: J.T.K.
   Scope and Content Note

Box 62:47 710-B-a-96 Canal Prepared for Placing Concrete Lining, Fresno Canal Company,
   California. 1914
   Photographer: J.L.K.
   Scope and Content Note

Box 62:48 710-B-a-97 Curves in Riverside Water Co. canal. 1915 July
   Photographer: Tait, C.E.
   Scope and Content Note
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Photographer: Tait, C.E.  
Scope and Content Note |
| 62:50 | 710-B-a-99 **Bear River Canal of Pacific Gas and Electric Company a short distance below Lake Spalding. 1918 July**  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:51 | 710-B-a-100 **One of the earlier cement cobble lined irrigation ditches near Whittier, Calif. undated**  
Photographer: C.E.J.  
Scope and Content Note |
| 62:52 | 710-B-a-101 **Balfour Guthrie Canal, Contra Costa County. 1919 August**  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:53 | 710-B-a-102 **Laying concrete lining in ditch. undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:54 | 710-B-a-103 **Lined portion of south San Joaquin canal showing Oakdale canal on opposite side. undated**  
Photographer:  
Scope and Content Note |
| 62:55 | 710-B-a-104 **Lined section and spillway, South San Joaquin canal. undated**  
Photographer:  
Scope and Content Note |
| 62:56 | 710-B-a-105 **No. 368 - Rock and lined sections south San Joaquin canal. undated**  
Photographer:  
Scope and Content Note |
| 62:57 | 710-B-a-106 **Lined section south San Joaquin canal and tunnel. undated**  
Photographer:  
Scope and Content Note |
| 62:58 | 710-B-a-107 **Concrete lined main canal. Looking west. 1923 September**  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:59 | 710-B-a-108 **A short section of concrete lined flume - Placerville ditch - Camino Ridge above Placerville. 1925 June**  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:60 | 710-B-a-109 **Lined portion of Clarke Colony Canal, near Greenfield 1920 September 22**  
Photographer: Adams, Frank  
Scope and Content Note |
Box 62:61 710-B-a-110 Concrete lined canal 1925 January
   Photographer: T.A.
   Scope and Content Note
   Failure of concrete lining of Gage Canal near pump house of Citrus Experiment Station at Riverside.

Box 62:62 710-B-a-111 Omak Project, U.S. Reclamation Service. Drop in canal. 1914
   Photographer: Fisher, D.F.
   Scope and Content Note

Box 62:63 710-B-a-112 Concrete canal lining on fill. Lining 2 1/2" thick reinforced with 6" x 6" #10 wire mesh. Construction joints at 10'. Side slopes 3/4 to 1. Cost of this lining about 16 cents per square foot. Fresno Irrigation Dist. 1929 May 14
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:64 710-B-a-114 Precast canal lining. James Irrig. Dist. V shaped ditch 2.8' deep and 10' wide on top. Lining 2" thick. Joints at 3' intervals. 1929 May 11
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:65 710-B-a-115 Precast canal lining 2" thick. V shaped ditch 2.8' vertical to 5' horizontal. Top width 10'. Construction joints at 3' intervals. James Irrig. Dist. 1929 May 11
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:66 710-B-a-116 Canal lining. 2 1/2" thick, reinforced with 6" x 6", #10 wire mesh. Mr. E. Sibley, Secretary, Alta Irrig. Dist. No contraction joints provided and small cracks have developed at about 15' intervals. A very smooth lining. 1929 May 28
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:67 710-B-a-117 Concrete lined canal near diversion point at the Capay Weir on south side canal. Note fish screen in canal. Yolo Water & Power Co. 1929 April 28
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:68 710-B-a-118 Canal in Porterville Clay adobe. Lining is 4" thick and reinforced 3/8" square bars at 8" centers both ways. Expansion joints at 15' intervals filled with asphalt. Alta Irrig. Dist. 1929 May 28
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:69 710-B-a-119 Main canal above pumping plant No. 1. West Stanislaus Irrig. Dist. Lining 3" thick, reinforced 1/4" bars at 12" end 24". Cost of lining averaged $0.152 per square foot 1929 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:70 710-B-a-120 Concrete lined private ditch in Turlock Irrig. Dist. Plain concrete lining 2" thick. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
Box 62:71  710-B-a-121 Mr. R.V. Meikle 1929 August
    Photographer: Christiansen, Jerald Emmet
    Scope and Content Note

Box 62:72  710-B-a-122 Mr. R.V. Meikle 1929 August
    Photographer: Christiansen, Jerald Emmet
    Scope and Content Note

Box 62:73  710-B-a-123 Untitled 1929 August
    Photographer: Christiansen, Jerald Emmet
    Scope and Content Note

Box 62:74  710-B-a-124 Untitled 1929 August
    Photographer: Christiansen, Jerald Emmet
    Scope and Content Note

Box 62:75  710-B-a-125 Untitled 1929 August
    Photographer: Christiansen, Jerald Emmet
    Scope and Content Note

Box 62:76  710-B-a-126 Untitled 1929 August
    Photographer: Christiansen, Jerald Emmet
    Scope and Content Note

Box 62:77  710-B-a-127 Untitled 1929 August
    Photographer: Christiansen, Jerald Emmet
    Scope and Content Note

Box 62:78  710-B-a-128 Untitled 1929 August
    Photographer: Christiansen, Jerald Emmet
    Scope and Content Note

Box 62:79  710-B-a-129 Untitled 1929 August
    Photographer: Christiansen, Jerald Emmet
    Scope and Content Note

Box 62:80  710-B-a-130 Untitled 1929 August
    Photographer: Christiansen, Jerald Emmet
    Scope and Content Note

Box 62:81  710-B-a-131 Bank lining, Plain concrete 2” thick. Modesto Irrigation District. 1930 January
    Photographer: Christiansen, Jerald Emmet
    Scope and Content Note

Box 62:82  710-B-a-132 Concrete lined canal. Lining 2” thick, not reinforced. Modesto Irrigation District. 1930 January
    Photographer: Christiansen, Jerald Emmet
    Scope and Content Note
Box 62:83  710-B-a-133 Concrete bank lining. Fresno Irrig. Dist. Slope 3/4 hor. to 1 vert.; thickness, 2 1/2", reinforced with 4" x 8" - #13 wire mesh. 1930 January
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:84  710-B-a-134 Setting template and preparing canal for lining. Turlock Irrigation District. L.W. Terrell, Contractor 1930 February
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:85  710-B-a-135 Concrete lined canal, Turlock Irrigation District, showing frequency of contraction cracks. Lateral No. 3 below Drop No. 6. Cracks are painted with bituminous paint. Count of cracks showed 29 in 200 feet. Lining placed January 6, 1923. 1931 March
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:86  710-B-a-136 Concrete lined ditch for Improvement District. Turlock Irrigation District 1931 March
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:87  710-B-a-137 Small gunite lined lateral. Note unusual shape of cross section designed to obtain favorable hydraulic conditions with variable flow in order to prevent silt from depositing. Imperial Irrigation District 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:88  710-B-a-138 Gunite lined lateral, Imperial Irrigation District 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:89  710-B-a-139 Concrete lined canal. Santa Ana Valley Irrigation Company main canal east of Santa Ana, Calif. 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:90  710-B-a-140 Concrete lined canal. Anaheim Union Water Company near Yorba Linda, Calif. 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:91  710-B-a-141 Concrete lined ditch, Pleasant Valley Water Co., Porterville, capacity about 5 c.f.s. 1930 May
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:92  710-B-a-142 Concrete lined canal 1916
   Photographer: Adams, Frank
   Scope and Content Note

Box 62:93  710-B-a-143 Concrete lined canal in California. West Stanislaus Irrigation Dist. 1929
   Photographer: Adams, Frank
   Scope and Content Note
Box 62:94 710-B-a-144 West Stanislaus Concrete line and Main canal-looking west 1929  
Photographer: Adams, Frank  
Scope and Content Note

Box 62:95 710-B-a-149 Main canal on the Yakima Project, Washington 1932  
Photographer: Adams, Frank  
Scope and Content Note

Box 62:96 710-B-a-150 Looking southerly along Gage canal from flume crossing of arroya in Highgrove area, Calif. 1938 November 15  
Photographer: Pillsbury, A.F.  
Scope and Content Note  
P-292 Negative at Citrus Experiment Station, Riverside, Calif.

Box 62:97 710-B-a-151 Construction of reinforced concrete lined irrigation canal. Fresno Irrigation District, Fresno, Calif. 1938  
Photographer: Gerner, A.J., Fresno Irrigation District  
Scope and Content Note  
Fresno Irrig. Dist. has negative. See negative envelope for other views

Box 62:98 710-B-a-152 Capay canal, Clear Lake Water Co. Looking downstream from Capay dam. 1939 December 5  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note

Box 62:99 710-B-a-153a,b Concrete lined canals in the Consolidated Irrigation District constructed by Public Works Administration. 1939 November  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 62:100 710-B-a-154 Trip with seven Chinese technicians visiting irrigation & drainage projects in Western States, Feb. 28 to Apr. 15, 1946. At U.S. Date Garden, Indio, Calif. Walter Reuther discussing soils in citrus orchard. 1946 March 2  
Photographer: Brown, J.B.  
Scope and Content Note

Box 62:101 710-B-a-155 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. U.S. Date Garden at Laboratory. 1946 March 2  
Photographer: Brown, J.B.  
Scope and Content Note

Box 62:102 710-B-a-156 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Two views of heavily eroded mountains north of Coachella Canal at Mixing plant northeast of Mecca. 1946 March 3  
Photographer: Brown, J.B.  
Scope and Content Note
Box 62:103  710-B-a-157  Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Group at Coachella Canal at unfinished section northeast of Mecca. Lining operations in progress five miles upstream from this point. 1946 March 3
   Photographer: Brown, J.B.
   Scope and Content Note

Box 62:104  710-B-a-158  Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Coachella Canal, finished section looking west. 1946 March 3
   Photographer: Brown, J.B.
   Scope and Content Note

Box 62:105  710-B-a-159  Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Coachella Canal, finished section looking east. 1946 March 3
   Photographer: Brown, J.B.
   Scope and Content Note

Box 62:106  710-B-a-160  Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Coachella Canal - Paver, looking west. 1946 March 3
   Photographer: Brown, J.B.
   Scope and Content Note

Box 62:107  710-B-a-161 a, b, c  Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Coachella Canal - Views of paver looking east. 1946 March 3
   Photographer: Brown, J.B.
   Scope and Content Note

Box 62:108  710-B-a-162  Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Coachella Canal - mixer truck delivering concrete to paver. 1946 March 3
   Photographer: Brown, J.B.
   Scope and Content Note

Box 62:109  710-B-a-163a710-B-a-163b  Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Coachella Canal - trimmer looking east. Works 200 yards ahead of paver. 1946 March 3
   Photographer: Brown, J.B.
   Scope and Content Note

Box 62:110  710-B-a-164a710-B-a-164b  Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Carrot crop west of El Centro, Imperial Valley. 1946 March 4
   Photographer: Brown, J.B.
   Scope and Content Note

Box 62:111  710-B-a-165  Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Group at Drop 5, All American Canal. (Roben, Chief Water Master). 1946 March 5
   Photographer: Brown, J.B.
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<td>Photographer: Brown, J.B.</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Photographer: Brown, J.B.</td>
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   Scope and Content Note

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   Photographer: L.D.D.
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   Photographer: Brown, J.B.
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   Photographer: Brown, J.B.
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   Photographer: Brown, J.B.
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   Photographer: Brown, J.B.
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   Photographer: Adams, Frank
   Scope and Content Note

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   Photographer: Adams, Frank
   Scope and Content Note

Box 62:190 710-B-a-340 Mt. Home Siphon, Delta-Mendota Canal looking south. 24' 2 1/2" diameter. 1948 November 24
   Photographer: Adams, Frank
   Scope and Content Note

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   Photographer: Adams, Frank
   Scope and Content Note

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   Photographer: Adams, Frank
   Scope and Content Note

Box 62:193 710-B-a-343 Portion of upper 15 miles of Delta-Mendota Canal. 48' wide on bottle. 4600 c. fts. 1948 November 24
   Photographer: Adams, Frank
   Scope and Content Note

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   Photographer: Adams, Frank
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   Photographer: Adams, Frank
   Scope and Content Note

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   Photographer: Adams, Frank
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| Box 62:206 | 710-B-b-3 Bear Valley Mutual Water Co. canal near Redlands. Lining of cobble and cement on high grade just below canyon. 1914 September |
| Box 62:207 | 710-B-b-4 Water lifted by pumping plant. Newly constructed canal leading from Honey Lake, Lassen county. 1916 |
| Box 62:208 | 710-B-b-5 Canal lining with Koroseal, by V.H. Scott and J.H. Luthin. Location in excess spill canal of Clear Lake Water Co. Canal, southwest corner of University Farm, Davis. Cross section before cleaning. 1950 July 10 |
**Box 62:210**  
710-B-b-7 Canal lining with Koroseal, by V.H. Scott and J.N. Luthin. Location in excess spill canal of Clear Lake Water Co. Canal, southwest corner of University Farm. Davis. Preparing slopes for lining. 1950 July 10

**Box 62:211**  
710-B-b-8 Canal lining with Koroseal, by V.H. Scott and J.N. Luthin. Location in excess spill canal of Clear Lake Water Co. Canal, southwest corner of Univ. Farm, Davis. Preparing slopes for lining. 1950 July 10

**Box 62:212**  
710-B-b-9 Canal lining with Koroseal, excess spill canal of Clear Lake Water Co. Canal, southwest corner of Univ. Farm. 1st section (5') laid 6" below canal surface before backfilled. 2nd 5' section laid on surface sterilized with Borax. 1950 July 10

**Box 62:213**  
710-B-b-10 Canal lining with Koroseal, excess spill canal of Clear Lake Water Co. Canal, S.W. corner of Univ. Farm. Finished sections. 1st section backfilled, 2nd section on surface. 1950 July 10

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710-B-b-11 Polyethylene film ditch lining 1959

**Box 62:215**  
710-B-b-12 Polyethylene film ditch lining 1959

**Box 62:216**  
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**Box 62:217**  
710-C-1 Applying gunite on rocky section of canal. Lindsay-Strathmore Irrigation District. Aug. 1917. 1917 August

**Box 62:218**  
710-C-2 Applying gunite on main canal, Lindsay-Strathmore Irrigation District. 1917 August

Photographer: Adams, Frank

Scope and Content Note
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Photographer: Tait, C.E.
Scope and Content Note

Box 62:230  710-C-16 (No neg) Excavating main canal on portion of Durham State Land Settlement with teams. 1918
Photographer: Adams, Frank
Scope and Content Note

Box 62:231  710-C-17 (No neg) Excavating main canal on Durham State Land Settlement with tractor and excavating machine. 1918
Photographer: Adams, Frank
Scope and Content Note

Box 62:232  710-C-18 Dredging a drainage canal in District 33, Butte County. 1921 Fall
Photographer: Adams, Frank
Scope and Content Note

Box 62:233  710-C-19 Making ditch with excavator. Willows, 1916. undated
Photographer:
Scope and Content Note

Box 62:234  710-C-20 Excavator in ditch construction, near Woodland, California. 1915
Photographer: Beckett, Samuel H.
Scope and Content Note

Box 62:235  710-C-21 Excavator in ditch construction, near Woodland. 1915
Photographer: Beckett, Samuel H.
Scope and Content Note

Box 62:236  710-C-22 Excavator in ditch construction, near Woodland. 1915
Photographer: Beckett, Samuel H.
Scope and Content Note

Box 62:237  710-C-23 Excavator in ditch construction, near Woodland. 1915
Photographer: Beckett, Samuel H.
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Box 62:238  710-C-24 Excavator in ditch construction, near Woodland. 1915
Photographer: Beckett, Samuel H.
Scope and Content Note

Box 62:239  710-C-25 Excavator in ditch construction, near Woodland, California. 1915
Photographer: Beckett, Samuel H.
Scope and Content Note

Box 62:240  710-C-26 Troweling concrete lining. Improvement District ditch. Turlock Irrigation District. 3 views. 1931 March
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Box 62:241  710-C-27 Painting fresh concrete lining with "Hunt Process" asphaltic paint. This method of curing concrete lining was used exclusively on Improvement District and Irrigation District work in 1930-31. Turlock Irrigation District 2 views. 1931 March
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:242  710-C-28 Excavating puddled ditch to final grade and shape for concrete lining. Improvement District work. Turlock Irrigation District. 1931 March
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:243  710-C-29 Trimming side slopes to exact line and grade for concrete lining. Improvement District work. Turlock Irrigation District. 1931 March
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:244  710-C-30 Setting grade stakes at top edges of lining by means of template set on center line grade stake. Construction of lined ditch for Improvement District, Turlock Irrigation District. 1931 March
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:245  710-C-31 Puddling ditch prior to placing concrete lining. Improvement District Ditch. Turlock Irrigation District. 1931 March
   Photographer: March 1931
   Scope and Content Note

Box 62:246  710-C-32 Trimming bottom of ditch to final grade for concrete lining of Improvement District ditches. Turlock Irrigation District 1931 March
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:247  710-C-33 Placing concrete lining in private ditch. Turlock Irrigation District 1931 March
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:248  710-C-34 Construction of lined ditch for improvement districts. Turlock Irrigation District (3 views) 1931 March
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:249  710-C-35 Concrete mixer used in lining ditches for improvement districts. Turlock Irrigation District. 1931 March
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:250  710-C-36 Construction of lateral on fill by means of silting in between levees. Levees placed 100 feet apart. Final grade of lateral to be several feet above top of present levees. Imperial Irrigation District. 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
Box 62:251  
710-C-37 Constructing shallow drain with Ruth dredge, Imperial Irrigation District  
1931 April  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 62:252  
710-C-38 Negative on file, Citrus Experiment Station, Riverside, Calif. 1936 August 29  
Photographer: Compton, O.C.  
Scope and Content Note  
All American Canal under construction, Imperial Valley, California. Photograph taken from U.S. Highway 80. See also 710-C-39

Box 62:253  
710-C-39 Negative on file, Citrus Exp. Station, Riverside, Calif. 1936 August 29  
Photographer: Compton, O.C.  
Scope and Content Note  
View of construction of All American Canal, Imperial Valley, from U.S. Highway No. 80. See also preceding view.

Box 62:254  
710-C-40 Consolidated Main Canal near Sanger showing concrete lining placed winter of 1938-39 by WPA. Lining 2/10 ft. thick. Reinforced side slopes approximately 1 or 1 1/4. 1939 October 18  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 62:255  
710-C-41 Consolidated Main Canal near Sanger. Shaping canal section prior to concrete lining. Work being done by WPA force. 1939 October 18  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 62:256  
710-C-42 Consolidated Main Canal near Sanger showing shape of canal and demolition of concrete section gate made necessary by regrading of the canal for lining. 1939 October 18  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 62:257  
710-C-43 Consolidated Canal near Sanger. Shows shaping of canal section prior to concrete lining. Shows template used for obtaining true cross-section. 1939 October 18  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 62:258  
710-C-44 (a) Concrete lining of small canal lateral near Canal School east of Selma. Consolidated Irrigation District. Setting grade stakes in canal that has been puddled. Bottom of finished canal to be nearly 3 feet below bottom of puddles ditch. 1939 October 18  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note

Box 62:259  
710-C-45 (b) Concrete lining of small canal lateral near Canal School east of Selma. Excavating puddled ditch to line and grade. Grade stakes for bottom of ditch set 50 feet apart in holes dug for that purpose. 1939 October 18  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note
Box 62:260  710-C-46  (c) Concrete lining of small canal lateral near Canal School east of Selma. Shaping canal to proper cross-section prior to lining. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:261  710-C-47  (d) Concrete lining of small canal lateral near Canal School east of Selma. Iron bars set to exact line and grade as shown by chalk line at bottom and top of slope. Bank then trimmed to final shape with a scraper. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:262  710-C-48  (e) Concrete lining of small canal lateral near Canal School east of Selma. Iron bars set to exact line and grade as shown by chalk line at bottom and top of slope. Bank then trimmed to final shape with a scraper. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:263  710-C-49  (f) Concrete lining of small canal lateral near Canal School east of Selma. Lining side slopes. Concrete placed on bank with shovel and troweled with wooden float to a thickness of 1/10'. Note use of steel bank to govern thickness of lining. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:264  710-C-50  (g) Concrete lining of small canal lateral near Canal School east of Selma. Lining side slopes. Concrete placed on bank with shovel and troweled with wooden float to a thickness of 1/10'. Note use of steel bank to govern thickness of lining. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:265  710-C-51  (h) Concrete lining of small canal lateral near Canal School east of Selma. Mixing crew. Concrete mix consists of 3 1/2 cu. ft. of fine gravel 1/4"-5/8", 3 1/2 cu. ft. sand up to 1/4", 1 sack cement, 2 lbs CaCl2 in solution and about 6 1/2 gal. water. Concrete crew consists of 19 men placing and mixing. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:266  710-C-52  (i) Concrete lining of small canal lateral near Canal School east of Selma. Completed section of lateral. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 62:267  710-C-53  Reconstruction of Canal for Imperial Water Co.'s No 6+8 Calif. undated
   Photographer: Tait, C.E.
   Scope and Content Note

Box 62:268  710-C-54  Gage Canal Co. undated
   Photographer:
   Scope and Content Note
Box 62:269 710-D-1 **Oil Weed Burner, Valley Irrigation Co., Willows, Cal.** 1916 May 11
   Photographer: Adams, Frank
   Scope and Content Note
   This is used to burn the weeds in the main canals.

Box 62:270 710-D-2 **Result of Canal Cleaning, Sacramento Valley Irrigation Co., Willows, Cal.** 1915 May 11
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   An oil burner was used to eradicate the weeds in this canal.

Box 62:271 710-D-3 **Oil Weed Burner, Sacramento Valley Irrigation Co., Willows, Cal.** 1916 May 11
   Photographer: Adams, Frank
   Scope and Content Note
   This is used to burn the weeds in the main canals.

Box 62:272 710-D-4 **Ditch Cleaning Machine, Marysville, California.** 1916 April
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 62:273 710-D-5 **Dredger Cleaning Highline Canal, Water Company No. 3, Imperial Valley, California, 1917. 1917 May 31**
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 62:274 710-D-6 **Ruth Dredger Cleaning lateral of Imperial Water Company No. 3. September 3, 1917. 1917 September 3**
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 62:275 710-D-8 **Ditch Cleaner of Imperial Water Co. No. 1. 1908 June**
   Photographer: Tait, C.E.
   Scope and Content Note

Box 62:276 710-D-9 **Canal Cleaning. Dutton Dredge, Imperial Valley, Calif. undated**
   Photographer: Tait, C.E.
   Scope and Content Note

Box 62:277 710-D-10 **Canal Cleaning. Work of V on Date Lateral, Imperial Valley, Calif. undated**
   Photographer: Tait, C.E.
   Scope and Content Note

Box 62:278 710-D-11 **Canal Cleaning. Farmers’ V for cleaning ditches. Front view. Imperial Valley, Calif. undated**
   Photographer: Tait, C.E.
   Scope and Content Note

Box 62:279 710-D-12 **Canal Cleaning. I.W.Co. No. 7 V, Holtville, Calif. undated**
   Photographer: Tait, C.E.
   Scope and Content Note
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<td>Used for cleaning canals of medium size and laterals in Imperial Valley. These are not used so much as formerly.</td>
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| Box 62:291 | 710-D-26 **Gate for cleaning canal. Turlock Canal, Calif. Not a flushing gate, but an entrance and outlet for teams. undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:292 | 710-D-27 **Hydraulic dredge below headgate, Imperial canal. 1915**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 62:293 | 710-D-28 **Cleaning ditch with steel V and two engines. Imperial W. Co. #1. 1915**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 62:294 | 710-D-29 **(2 negatives) Drag-line dredge cleaning drainage ditches near Dos Palos 1922**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:295 | 710-D-30 **Moss growth in North Avenue Canal. Moss gives trouble only in canals into which well water is pumped. Fresno Irrig. Dist. 1929 May 9**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 62:296 | 710-D-31 **View of banks of small lateral after grading with rotary grader preparatory to dredging. Calipatria Division, Imperial Irrigation District. (2 views) 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 62:297 | 710-D-32 **Discing to control growth of willows and bamboo on canal banks. Growth as shown on right can be killed or materially set back in this way. Imperial Irrigation District. 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 62:298 | 710-D-33 **Dredging small lateral with Ruth Dredger. Imperial Irrigation District. (2 views) 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 62:299 | 710-D-34 **Large lateral, Imperial Irrigation District. Right hand bank has been recently dredged with Ruth Dredger, left hand bank not yet dredged. Note growth of grass on berm, left bank. 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 62:300 | 710-D-35 **Dredging large lateral with Ruth Dredger. Wheel span 36 feet. Imperial Irrigation District. 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 62:301 | 710-D-36 **Pond weeds. Irrigation canal, Fresno irrigation district. Potamogeton americanus. 1936 May 29**  
Photographer: Christiansen, Jerald Emmet  
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<td>Breaking tules with chain. California Packing Co. ranch, Union Island. 1935 April</td>
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- Photographer: Marr, J.
- Scope and Content Note

Box 62:314
710-D-49 *Cutter set in disc frame 1954*
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Box 62:315
710-D-50 *Cutter set in disc frame 1954*
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Box 62:316
710-E-2 *Bank Protection below Capay Dam of Yolo Water and Power Company, on Cache Creek, California. 1914*
- Photographer: J.L.K.
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Box 62:317
710-E-3 *Showing method of bank protection through use of arrow-weed. 1914 December*
- Photographer: J.T.K.
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Box 62:318
710-F-1a710-F-1b710-F-1c *Clear Lake Canal Seepage Tests, Nov. 27, 1940 1940 November 27*
- Photographer: Givan, C.V.
- Scope and Content Note

Box 62:319
710-F-1d710-F-1e710-F-1f *Clear Lake Canal Seepage Tests, Nov. 27, 1940 1940 November 27*
- Photographer: Givan, C.V.
- Scope and Content Note

Box 62:320
710-F-1g *Clear Lake Canal Seepage Tests, Nov. 27, 1940. 1940 November 27*
- Photographer: Givan, C.V.
- Scope and Content Note
  g. East end, Section 4.

Box 62:321
710-F-2 *View of experimental section about 5 miles west of Woodland. Experiments being conducted to determine effect of salt treatment of canal banks and bottom on seepage loss on canals. 1000' section of this canal was divided into 10, 100' ponds by means of 11 water-tight bulk heads. This view shows "upper" pond No. 1 during first trial to determine rate of loss of water before treatments were started. Note that water level has dropped about a foot in depth from upper limit as noted from line of wet soil on bank. 1940 October 28*
- Photographer: W.R. AmesCo.
- Scope and Content Note
Box 62:322  710-F-3 Canal seepage experiments, near Woodland. View shows close-up of one of the bulk heads and inlet pipes by which water was admitted to canal from 10" surface pipe laid in trench along canal bank as shown in picture 710-F-4. 1940 October 28
   Photographer: W.R. Ames Co.
   Scope and Content Note

Box 62:323  710-F-4 Canal seepage experiments, near Woodland. 10" surface pipe in trench along canal bank to admit water to ponds for experiments. 1940 October 28
   Photographer: W.R. Ames Co.
   Scope and Content Note

Box 62:324  710-F-5 Canal seepage experiments, near Woodland. Water being admitted to pond. 1940 October 28
   Photographer: W.R. Ames Co.
   Scope and Content Note

Box 62:325  710-F-6 Canal seepage experiments, near Woodland. Water level in pond in foreground has receded about 2 to 3" from highest level; pond immediately below being filled. 1940 October 28
   Photographer: W.R. Ames Co.
   Scope and Content Note

Box 62:326  710-F-7 Canal seepage experiments near Woodland. Method of determining rate of seepage loss from canals. Hook gauge readings from bench mark on bulk head were taken at 15 to 30 minute intervals during entire period that water remained in pond which varied from about 8 to 14 hrs. for the different ponds. 1940 October 28
   Photographer: W.R. Ames Co.
   Scope and Content Note

Box 62:327  710-F-8 Canal seepage experiments, near Woodland. Original condition of canal banks which were covered with fairly heavy growth of Bermuda grass. Bottom was cleaned and covered with a few inches of water. Pond is beginning to fill. 1940 October 28
   Photographer: W.R. Ames Co.
   Scope and Content Note

Box 62:328  710-F-9 Canal seepage experiments near Woodland. Determining elevation of water surface in second run which was continued the following day. 1940 October 28
   Photographer: W.R. Ames Co.
   Scope and Content Note

Box 62:329  710-F-10 Canal seepage experiments near Woodland. Appearance of canal after 3/4 lb. per sq. ft. coarse salt was applied to both bottom and sides of canal in pond 8. The salt treatment was extended only to high water line in canal. Fairly uniform distribution was obtained by dividing the ponds into 10-foot sections and applying proper amount of salt to each section. 1940 October 29
   Photographer: W.R. Ames Co.
   Scope and Content Note

Box 62:330  710-F-11 Canal seepage experiments, near Woodland. 3/4 lb. per sq. ft. of salt applied to narrow strip along canal bank only. 1940 October 28
   Photographer: W.R. Ames Co.
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Photographer:  
Scope and Content Note

Box 62:332  710-G-1  All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Storm water spill into the All American Canal. 1937 March 9  
Photographer: Adams, Frank  
Scope and Content Note

Box 62:333  710-G-2  All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Overpass for storm water. 1937 March 9  
Photographer: Adams, Frank  
Scope and Content Note

Box 62:334  710-G-3  All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Construction of an overpass for storm water. 1937 March 9  
Photographer: Adams, Frank  
Scope and Content Note

Box 62:335  710-G-4  All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Construction of an overpass for storm water. 1937 March 9  
Photographer: Adams, Frank  
Scope and Content Note

Box 62:336  710-G-5  All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Agitator in the settling basins at the head of the new A.A.C. 1937 March 9  
Photographer: Adams, Frank  
Scope and Content Note

Box 62:337  710-G-6  All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Head work structures at All American Canal, Colorado River, California side. 1937 March 9  
Photographer: Adams, Frank  
Scope and Content Note

Box 62:338  710-G-7  All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Head work structures at All American Canal, Colorado River, California side. 1937 March 9  
Photographer: Adams, Frank  
Scope and Content Note

Box 62:339  710-G-8  All American Canal trip and Imperial Dam trip, Mar. 9, 1937. All American Canal near highway. 1937 March 9  
Photographer: Adams, Frank  
Scope and Content Note

Box 62:340  710-G-9  All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Sand dunes near highway near Holtville and Yuma. 1937 March 9  
Photographer: Adams, Frank  
Scope and Content Note

Box 62:341  710-G-10  Trip beginning February 9, 1941 - All American Canal, Imperial Valley, and Yuma Mesa. All-American Canal from No. 3 power house. 1941 February 9  
Photographer: Adams, Frank  
Scope and Content Note
<table>
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| 62:342 | 710-G-11 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. No. 3 power house, All-American Canal. 1941 February 9  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:343 | 710-G-12 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. All-American Canal below No. 3 power house. 1941 February 9  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:344 | 710-G-13 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Up All-American Canal at highway crossing. 1941 February 9  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:345 | 710-G-14 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Down All-American Canal at highway crossing. 1941 February 9  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:346 | 710-G-15 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Headgate of Coachella branch canal. 1941 February 9  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:347 | 710-G-16 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Drop at head of Coachella branch canal. 1941 February 9  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:348 | 710-G-17 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Up All-American Canal from head of Coachella branch. 1941 February 9  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:349 | 710-G-18 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Coachella Branch Canal. 1941 February 9  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:350 | 710-G-19 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Mesa on west side of head of Coachella branch canal. 1941 February 9  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:351 | 710-G-20 | Trip beginning February 9, 1941 All-American Canal, Imperial Valley, and Yuma Mesa. Alfalfa on Yuma Mesa Experiment Farm. 1941 February 9  
Photographer: Adams, Frank  
Scope and Content Note |
| 62:352 | 710-G-21 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Alfalfa on Yuma Mesa Experiment Farm. 1941 February 9  
Photographer: Adams, Frank  
Scope and Content Note |
Box 62:353 710-G-22 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. All-American Dam on Colorado River. 1941 February 9
   Photographer: Adams, Frank
   Scope and Content Note

Box 62:354 710-G-23 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. General view of settling basin, head of All-American Canal. 1941 February 9
   Photographer: Adams, Frank
   Scope and Content Note

Box 62:355 710-G-24 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Near head of All-American Canal showing channel leading to settling basins. 1941 February 9
   Photographer: Adams, Frank
   Scope and Content Note

Box 62:356 710-G-25 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Close-up All-American Dam across Colorado River. 1941 February 9
   Photographer: Adams, Frank
   Scope and Content Note

Box 62:357 710-G-26 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Close-up of control works, head of All-American Canal. 1941 February 9
   Photographer: Adams, Frank
   Scope and Content Note

Box 62:358 710-G-27 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Channel between two of settling basins at head of All-American Canal. 1941 February 9
   Photographer: Adams, Frank
   Scope and Content Note

Box 62:359 710-G-28 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Settling basins, head of All-American Canal. 1941 February 9
   Photographer: Adams, Frank
   Scope and Content Note

Box 62:360 710-G-29 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Settling basins, head of All-American Canal. 1941 February 9
   Photographer: Adams, Frank
   Scope and Content Note

Box 62:361 710-G-30 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. One of the overhead passes for storm water on All-American Canal above Yuma. 1941 February
   Photographer: Adams, Frank
   Scope and Content Note

Box 62:362 710-G-31 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. All-American Canal above Yuma. 1941 February 9
   Photographer: Adams, Frank
   Scope and Content Note
Box 62:363  710-G-32 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. All-American Canal above Yuma. 1941 February 9
    Photographer: Adams, Frank
    Scope and Content Note

Box 62:364  710-G-33 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. All-American Canal above Yuma. 1941 February 9
    Photographer: Adams, Frank
    Scope and Content Note

Box 62:365  710-G-34 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. No.3 power house on All-American Canal. 1941 February 9
    Photographer: Adams, Frank
    Scope and Content Note

Box 62:366  710-G-35 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. New river crossing, All-American Canal. 1941 February 9
    Photographer: Adams, Frank
    Scope and Content Note

Box 62:367  710-G-36 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Canal above new river crossing All-American Canal. 1941 February 9
    Photographer: Adams, Frank
    Scope and Content Note

Box 62:368  710-H-1 Colorado River Aqueduct trip, Frank Adams. Kajaloo Dam. 1937 March 10
    Photographer: Adams, Frank
    Scope and Content Note

Box 62:369  710-H-2 Colorado River Aqueduct trip, Frank Adams, March 10. Construction scene on Kajaloo reservoir. 1937 March 10
    Photographer: Adams, Frank
    Scope and Content Note

Box 62:370  710-H-3 Colorado River Aqueduct trip, Frank Adams, March 10, 1937. Construction scene at Kajaloo reservoir. 1937 March 10
    Photographer: Adams, Frank
    Scope and Content Note

    Photographer: Adams, Frank
    Scope and Content Note

Box 62:372  710-H-5 Colorado River Aqueduct Trip, March 10, 11, 1937. Part of lined portion of aqueduct. 1937 March 10
    Photographer: Adams, Frank
    Scope and Content Note

Box 62:373  710-H-6 Colorado River Aqueduct Trip, March 10, 11, 1937. Lining canal on the Colorado River Aqueduct. 1937 March 10
    Photographer: Adams, Frank
    Scope and Content Note
| Box 62:374 | 710-H-7 **Colorado River Aqueduct Trip, March 10, 11, 1937. Lining aqueduct. 1937 March 10**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:375 | 710-H-8 **Colorado River Aqueduct Trip, March 10, 11, 1937. Construction of concrete pipe. 1937 March 10**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:376 | 710-H-9 **Colorado River Aqueduct Trip, March 10, 11, 1937. Construction of concrete pipe. 1937 March 10**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:377 | 710-H-10 **Colorado River Aqueduct Trip, March 10, 11, 1937. Construction of concrete pipe. 1937 March 10**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:378 | 710-H-11 **Colorado River Aqueduct Trip, March 10, 11, 1937. Construction of twin siphons. 1937 March 10**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:379 | 710-H-12 **Colorado River Aqueduct Trip, March 10, 11, 1937. Construction of twin siphons. 1937 March 10**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:380 | 710-H-13 **Colorado River Aqueduct Trip, March 10, 11, 1937. Main pipe line on the first pumping lift on Colorado River. S. H. Finley standing on pipe. 1937 March 10**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:381 | 710-H-14 **Colorado River Aqueduct Trip, March 10, 11, 1937. Excavation work at Parker Dam. 1937 March 10**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:382 | 710-H-15 **Colorado River Aqueduct Trip, March 10, 11, 1937. Excavation work at Parker Dam. 1937 March 10**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:383 | 710-H-16 **Colorado River Aqueduct Trip, March 10, 11, 1937. Colorado River near Parker Dam. 1937 March 10**  
Photographer: Adams, Frank  
Scope and Content Note |
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<tr>
<td>Box 62:393</td>
<td>710-H-26</td>
<td>Rockwood heading of Impe I. D. Canal on Colorado River undated</td>
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<td>Box 62:394</td>
<td>710-H-27</td>
<td>Weaving brush mattress for Hind Dam on Colorado River undated</td>
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</table>
Box 62:395

720-1 Reservoir of Chas. A. Clark, Madera, California. 1916 February 29
Photographer: Hutchins, Wells A.
Scope and Content Note
The pumping plant and inlet pipe are shown in the northeast corner. In the southeast corner, on the right, is the outlet. Between the two, along the east bank of the reservoir, is a pipe through the top of the bank to drain off surplus water when the height of the water in the reservoir becomes such as to endanger the banks. This waste-way discharges into an irrigation ditch.

Box 62:396

720-2 Reservoir of Sam Skaggs, Madera, California. 1916 February 29
Photographer: Hutchins, Wells A.
Scope and Content Note
The wave-break on the east and south sides of the reservoir is shown here. The hardest winds are from the northwest and consequently it is often considered necessary in this section to provide a wave-break in only the southeast corner. This consists merely of a solid wooden fence built along the tow or inner slope. One of the outlets is shown in the center of the picture.

Box 62:397

720-3 Reservoir of Sam Skaggs, Madera, California. 1916 February 29
Photographer: Hutchins, Wells A.
Scope and Content Note
The pumping plant is shown just behind the inlet pipe on the right. This boom below the inlet pipe is used for the purpose of breaking the fall of the water and preventing it from eroding the bottom of the reservoir.

Box 62:398

720-4 Reservoir No. 255, Fairmead, California. 1916 March 2
Photographer: Hutchins, Wells A.
Scope and Content Note

Box 62:399

720-5 Pulaski’s Reservoir, Partly Constructed, Madera, California. 1916 February 29
Photographer: Hutchins, Wells A.
Scope and Content Note

Box 62:400

720-6 Reservoir of Wolters Bros., Showing Wave-Break, Madera, Cal. 1916 February 29
Photographer: Hutchins, Wells A.
Scope and Content Note
This brush protection against wave action extends entirely around the inside slope and consists of a wire fence with heavy posts, back-filled with apricot cuttings. It forms one of the most effective wavebreaks found in this section. In the northeast corner, on the right, is shown the concrete structure which takes the place of an inlet from the pumping plant and an outlet when the large head of water provided by the reservoir is taken for the lower lands are being irrigated, an outlet about one-half way down the left hand bank is used.

Box 62:401

720-7 Reservoir of Jos. Mathauser, Concrete-Lined, Orland, Cal. 1916 March 7
Photographer: Hutchins, Wells A.
Scope and Content Note
This lining is 3 to 4 inches thick of a 1:4 or 1:5 mixture of concrete and cost $485.00 or 30 cents per square yard. A lining of some sort is necessary in this section because of the very porous nature of the gravelly soil type. One of the two outlets to the reservoir is shown on the right.
Box 62:402  720-8 Reservoir of G. W. Cummings, Fairmead, California. 1916 March 2
  Photographer: Hutchins, Wells A.
  Scope and Content Note

Box 62:403  720-9 Pumping Plant and Reservoir, Fairmead Colony, Madera County, California. 1915 February 6
  Photographer: Hutchins, Wells A.
  Scope and Content Note

Box 62:404  720-10 (No neg) Small Tanks or Reservoirs are Utilized in some of the Sierra Foothill orchards to equalize the distribution of irrigation water. undated
  Photographer: Adams, Frank
  Scope and Content Note
  This picture shows one of these on a farm near Auburn. It is mainly intended to take care of fluctuations, but also permits of a small amount of reservoiring.

Box 62:405  720-11 (No neg) Small concrete reservoir for orchard irrigation. Santa Clara Valley, California. 1916 August
  Photographer: F.D.R.
  Scope and Content Note
  Needlessly heavy construction.

Box 62:406  720-12 (No neg) Small concrete Reservoir for Orchard Irrigation in Santa Clara Valley. Note pipe carrying water over top of reservoir, California. 1916 August
  Photographer: Robertson, Ralph D.
  Scope and Content Note

Box 62:407  720-13 Eucalyptus Reservoir, Cuyamaca Water System, San Diego County January, 1918. 1918 January
  Photographer: Adams, Frank
  Scope and Content Note

Box 62:408  720-14 Portion of Basin of Kings River to be covered by Pine Flat Reservoir. 1917 August
  Photographer: Adams, Frank
  Scope and Content Note

Box 62:409  720-15 East side of canyon at damsite of proposed Peete's Valley Reservoir for Honey Lake Valley Irrigation, Lassen Co., Cal. 1917 July
  Photographer: Adams, Frank
  Scope and Content Note

Box 62:410  720-16 Proposed damsite, Red Rock Reservoir, Southern Lassen Irrigation District, California. 1917 September
  Photographer: Adams, Frank
  Scope and Content Note
  A dam 130 feet high is, at this point, estimated to give a storage capacity in Red Rock Creek Valley of 100,000 acre-feet to be filled mainly from Long Valley and Last Chance Creeks.
Box 62:411 720-17 Lands to be flooded by Baxter Creek Irrigation District Reservoir on Baxter Creek, Lassen County, Cal. 1917 July
Photographer: Adams, Frank
Scope and Content Note
The dam crosses the valley a little below the left edge of the picture.

Box 62:412 720-18 Portion of Basin, Proposed Last Chance Reservoir, Southern Lassen Irrigation District, Cal. 1917 September
Photographer: Adams, Frank

Box 62:413 720-19 Proposed damsite for Last Chance Reservoir, Southern Lassen Irrigation District, Cal. 1917 September
Photographer: Adams, Frank

Box 62:414 720-20 Inlet to reservoir at Booster Pumping plant No. 1 Terra Bella Irrigation District. August 1917. 1917 August
Photographer: Adams, Frank
Scope and Content Note

Box 62:415 720-21 Small earthen reservoir about one mile east of Radnor Station on the Southern Pacific 1917 November
Photographer: Adams, Frank
Scope and Content Note
This reservoir is about 100 by 120 feet and has a depth of about 5 feet, inside slope of one-half vertical and one horizontal, and an outside slope of one vertical to one and one-fourth horizontal.

Box 62:416 720-22 Eagle Lake, Lassen Country, proposed to be utilized for Honey Lake Irrigation District, Cal. 1917 September
Photographer: Adams, Frank
Scope and Content Note
In the report of Engineer W. L. Wales of Honey Lake Valley District, it is proposed by means of a tunnel outlet to control the elevation of Eagle Lake as a reservoir supply under a difference in elevation of eighty-nine feet.

Box 62:417 720-23 Echo Lake Reservoir of the Western States Gas and Electric Company. 1918 October
Photographer: F.G.V.
Scope and Content Note

Box 62:418 720-24 Sly Park Reservoir and Dam Site looking down stream toward dam site. El Dorado County. 1918 October
Photographer: F.G.V.
Scope and Content Note

Box 62:419 720-25 Church Reservoir site for the proposed irrigation district for lands in the vicinity of Placerville. 1918 October
Photographer: F.G.V.
Scope and Content Note
| Box 62:420 | 720-26 **Dam Site for the proposed Sly Park Reservoir to store water for proposed irrigation district in vicinity of Placerville.** Looking up stream toward dam site on Park Creek. 1918 October  
Photographer: F.G.V.  
Scope and Content Note |
| Box 62:421 | 720-27 **Echo Lake Reservoir of the Western States Gas and Electric Company near Placerville.** 1918 October  
Photographer: F.G.V.  
Scope and Content Note  
Shows rock fill dam in foreground. This is in the Nevada drainage area and simply collects the run-off from a limited water shed and is filled largely by melted snow. The dam was constructed about 1876 for mining purposes. A short flume and tunnel diverts the water over the divide into the south fork of the American River. |
| Box 62:422 | 720-28 **Dam site for a proposed reservoir known as Granite Basin Reservoir, on Camp Creek tributary to the Consumnes River.** 1918 October  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 62:423 | 720-29 **Sly Park Reservoir site looking into basin from dam site (Placerville)** 1918 October  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 62:424 | 720-30 **Excavation for reservoir at University Farm, Davis, California** undated  
Photographer:  
Scope and Content Note |
| Box 62:425 | 720-31 **Construction of reservoir at University Farm, Davis, showing reinforcing in place.** undated  
Photographer:  
Scope and Content Note |
| Box 62:426 | 720-32 **Reservoir at University Farm, Davis, used in connection with outdoor hydraulic laboratory.** (See also 720-76) undated  
Photographer:  
Scope and Content Note |
| Box 62:427 | 720-33 **Circular Reservoir along the Highway near Claremont.** 1918 May  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:428 | 720-34 **Circular Concrete Reservoir along the highway near Claremont.** 1918 May  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:429 | 720-36 **Private Reservoir, near Le Mesa, California.** undated  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 62:430 | 720-40 **Auburn City Masonry Lined Reservoir, Auburn, Calif. 1908**  
Photographer:  
Scope and Content Note |
| Box 62:431 | 720-41 **Reservoir near Ice Plant, Pomona, Calif. Built of field stones laid up in mortar. 1907**  
Photographer:  
Scope and Content Note |
| Box 62:432 | 720-42 **Brush protection against wave action, Silver Lake Reservoir, Los Angeles, Calif. undated**  
Photographer:  
Scope and Content Note |
| Box 62:433 | 720-43 **Reinforced concrete Reservoir with concrete cover, City Water Supply, Whittier, Calif. 1907**  
Photographer:  
Scope and Content Note |
| Box 62:434 | 720-44 **Earthen reservoir, Whittier, Calif. 1907**  
Photographer: O.W.B.  
Scope and Content Note |
| Box 62:435 | 720-45 **Ivanhoe Reservoir, showing oiled slope of dam, Los Angeles City Water Supply, Los Angeles, Calif. 1907**  
Photographer:  
Scope and Content Note |
| Box 62:436 | 720-46 **Storm erosion of reservoir banks, Whittier, Calif. undated**  
Photographer:  
Scope and Content Note |
| Box 62:437 | 720-47 **Concrete Reservoir and pumping station, controlling water supply of Monrovia, Calif. 1903 August**  
Photographer: Stover, Arthur P.  
Scope and Content Note |
| Box 62:438 | 720-48 **Equalizing reservoir, Redlands, Calif. 1905**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:439 | 720-49 **Circular Concrete Reservoir, near Pomona, California. 1910**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 62:440 | 720-50 **Constructing Reservoir near Claremont, Calif. undated**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 62:441 | 720-51 **Upper reservoir Covina Irrigation Co. Sloping banks with concrete lining. 1914 August**  
Photographer: Tait, C.E.  
Scope and Content Note |
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<th>Box 62:442</th>
<th>720-53 Lake Lee, reservoir of Temescal Water Co. Concrete wall supported by earth fill. 1915 April</th>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<td>Box 62:443</td>
<td>720-54 Cobblestone reservoir and pumping plant of Dr. C.N. Johnson, near Claremont. 1910</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<td>Box 62:444</td>
<td>720-55 Yorba Linda concrete reservoir, Orange Co., Calif. Shaped to conform to top of hill. Filled by pumps. 1915 April</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<td>Box 62:445</td>
<td>720-56 Dam, Fossil Creek Reservoir, Cache la Pourde Valley, Colorado. undated</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<td>Box 62:446</td>
<td>720-57 Constructing reservoir near Claremont, Calif. undated</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<td>Box 62:447</td>
<td>720-58 Concrete reservoir and orange orchard near Pomona, Calif. undated</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<td>Box 62:448</td>
<td>720-59 Concrete reservoir of Harrison Albright near La Mesa, San Diego Co. 1914 March</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<td>Box 62:449</td>
<td>720-60 Lower reservoir, Covina Irrigation Co. Circular concrete wall. 1914 August</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<td>Box 62:450</td>
<td>720-61 Concrete reservoir and pumping plant near Claremont, Calif. undated</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<td>Box 62:451</td>
<td>720-62 Reservoir near Lordsburg, Calif. 1910</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<td>Box 62:452</td>
<td>720-63 Richards Reservoir near Lordsburg, Calif. 1910</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<td>Box 62:453</td>
<td>720-64 Pumping plant, reservoir and orchard near San Dimas, Calif. undated</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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</table>
| Box 62:454 | 720-65 **Echo Lake on Tributary of South Fork of American River.** undated  
Photographer: Adams, Frank  
Scope and Content Note  
Neg. filed 785-A-23 Used as storage by Western States Gas and Electric Company and furnishes some of the water supply for Placerville section. |
| Box 62:455 | 720-66 **Silver Lake at Head of Silver Fork of South Fork of American River.** undated  
Photographer: Adams, Frank  
Scope and Content Note  
Neg. filed 785-A-24. This lake is used as a storage reservoir by Western States Gas and Electric Co. and furnishes part of the irrigation supply for the Placerville Section. |
| Box 62:456 | 720-67 **Reservoir Basin Meselbeck Dam, Happy Valley Irrigation District.** 1919 October 31  
Photographer: Adams, Frank  
Scope and Content Note  
In process of clearing as seen from the dam. The streams draining this water shed are Forester and Hoover Creeks. |
| Box 62:457 | 720-68 **Lake Spalding from Emigrant Gap showing character of water shed.** undated  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:458 | 720-69 **Grant Lake on Rush Creek above Mona Lake.** undated  
Photographer: Adams, Frank  
Scope and Content Note  
Used as storage by Southern Sierras Power Company. |
| Box 62:459 | 720-70 **Second View of Echo Lake.** undated  
Photographer: Adams, Frank  
Scope and Content Note  
See picture 720-65 |
| Box 62:460 | 720-71 **Grant Lake below power house, Mono County.** 1918 August  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 62:461 | 720-72 **Automatic control valves on intake to regulating reservoir. Vista Irrigation District, Vista, Calif.** 1931 April  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 62:462 | 720-73 **Farm reservoir, Lyons ranch, Dixon** 1931 August  
Photographer: Givan, C.V.  
Scope and Content Note |
| Box 62:463 | 720-74 **California State Nursery on highway between Sacramento and Davis** 1931  
Photographer: Givan, C.V.  
Scope and Content Note  
Reservoir - concrete lined. (3 views) |
| Box 62:464 | 720-75 Highway in San Diego County passing over reservoir site undated |
| Box 62:465 | 720-76 Early photograph of irrigation reservoir, University Farm, Davis, Div. of Irrigation Investigations and Practice. undated |
| Box 62:466 | 720-77 Domestic water supply. Melorland Experiment Station, Victor Valley. 1917 |
| Box 62:467 | 720-78 Domestic water supply, Imperial Valley. 1917 |
| Box 62:468 | 720-79 (No neg) Wheatley reservoir, Victor Valley. Inside measurements: length, 41.22'; width, 12.80'; depth, about 8'. 1917 |
| Box 62:469 | 720-80-a720-80-b Rolling clay lining on reservoir, Davis. 1943 November 5 |
| Box 62:470 | 720-81 Guniting of reservoir, (Truck Crops) by Johnson Western Co. University Farm, Davis, August 17, 1948. 1948 August 17 |
| Box 62:471 | 720-82 Guniting of reservoir, (Truck Crops) by Johnson Western Co, University Farm, Davis, August 17, 1948. 1948 August 17 |
| Box 62:472 | 720-83 Guniting of reservoir, (Truck Crops) by Johnson Western Co., University Farm, Davis, August 17, 1948. 1948 August 17 |
| Box 62:473 | 720-84 (No neg.) Reservoir for San Diego Water supply. Part of the aqueduct system. 1948 November 13 |
| Box 62:474 | 720-85 Pumping plant and reservoir of coblestone and cement - near Claremont undated |
Box 62:475 720-86 Reservoir and Septic Basins El Centro 1915 1915
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 62:476 720-87 Reservoir Site on Last Chance Creek undated
   Photographer: 
   Scope and Content Note

Box 62:477 720-88 Untitled undated
   Photographer: 
   Scope and Content Note

Box 62:478 720-89 Australian Turkey Nest - A surface reservoir for storage of occasional stream flow undated
   Photographer: Mr. Geddes, Director of University Farms, University of Sydney
   Scope and Content Note

Box 62:479 725-A-a-1a725-A-a-1b725-A-a-1c Putah Creek Studies 1936 August 24
   Photographer: Johnston, C.N.
   Scope and Content Note
   (a) Flowing stream above basin of advancing water on Putah Creek above Winters 3/4 mi.
   (b) Advancing face of Putah Creek above Winters bridge 3/4 mi. Stakes placed at edge of
   tongue of water. (c) Side of bank south side Putah creek just W. of Davis' well on Spark's
   land. Shows strata exposed. Pine cone in foreground on cemented sandy clay followed in
   survey.

   Photographer: Johnston, C.N.
   Scope and Content Note
   (a) Dry pool downstream from advancing water face Putah Creek, 3/4 mi. above Winters.
   Was full to depth 18" 8/24/36. (b) Advancing water face Putah Creek. Looking
   downstream from point 200' above picture (c). Shows receding water as of this date. (c)
   Advancing face of Putah Creek above Winters 3/4 mi. Double row stakes in foreground.
   Near row placed 2 P.M. 8/25/36. Inner row placed 11 A.M. 8/24/36. Picture taken 2 P.M.
   8/27/36 showing recession of water due to pumping starting in area.

Box 62:481 725-A-a-3a725-A-a-3b Putah Creek studies. 1936 August 24
   Photographer: Johnston, C.N.
   Scope and Content Note
   a. Spring on Putah back of Spark's (Smiling Pool) Snag on right hand center picture has
   B.M. for water levels. b. "Smiling Pool" near Sparks' south bank Putah Creek. Showing
   changing water levels in pool lower foreground. Also shows snag in left hand upper corner
   where B.M. placed for water level record. Taken standing just above 2 cottonwood trees,
   south bank. (1 dead).

Box 62:482 725-A-a-4a725-A-a-4b Putah Creek studies. 1936 August 24
   Photographer: Johnston, C.N.
   Scope and Content Note
   a. Out flow from "Smiling Pool" by Sparks' ranch, Winters. Flow 150 g.p.m. b. View
   downstream Putah Creek from Winters Bridge R.R. Shows pipe in center line creek, just
   below center line print, where dam to be installed.
Box 62:483  725-A-a-5a725-A-a-5b Putah Creek studies. 1937 February 14
Photographer: Johnston, C.N.
Scope and Content Note
a. 10 A.M. Dark spot on pole left hand center sheet 6-8" above water line locates high water line this date. Flood crest 2/4/37 about 3' higher. Golf course bridge. b. 2 P.M. Shows recession waters since 10 A.M.

Box 62:484  725-A-a-6a725-A-a-6b Putah Creek studies. 1937 February 14
Photographer: Johnston, C.N.
Scope and Content Note
a. Putah Creek at 10 A.M. view upstream from north bank at north end bridge near golf course. b. Putah Creek, farm branch. Flowing water 10 A.M.

Box 62:485  725-A-a-7a725-A-a-7b725-A-a-7c Putah Creek studies 1936 September 07
Photographer: Johnston, C.N.
Scope and Content Note

Box 62:486  725-A-a-8a725-A-a-8b725-A-a-8c Putah Creek studies. 1936 September 02
Photographer: Johnston, C.N.
Scope and Content Note
a. Putah Creek viewed upstream. Shows locations advancing face flow as of 8/24/36 and dry conditions as of this date. Pump-in vicinity taking all flow. b. Putah Creek. View of Bigelow Power pole. Taken looking across station no. 3 of survey levels. c. Putah creek. View downstream Winters R.R. bridge toward dam construction.

Box 62:487  725-A-a-9 Putah Creek gauging station. Shows high water line of flood Feb. 4, 1937 as light streak in grass right hand side on bank. Trash accumulated on platform at gauge. Indicates gauge not any too high. 1937 February 15
Photographer: Johnston, C.N.
Scope and Content Note

Box 62:488  725-A-a-10 High water line Putah Creek 2-4-37. Location first road W. Sparks' estate south side creek. HWNW 23 T8 NRIW. Can in center line road locates point to which levels were lined in fall 1936. This point 1.5ft. below high water line. 1937 February 15
Photographer: Johnston, C.N.
Scope and Content Note

Photographer: Johnston, C.N.
Scope and Content Note

Box 62:490  725-A-a-12 U.S.G.S. aging station in Putah Creek Canyon, 10 miles west of Winters. Molenaur pointing to high water mark on register shelter. 1937 December 12
Photographer: Johnston, C.N.?
Box 62:491  725-A-a-13 View across creek Marden Wilbur's ranch, S.E. of Davis. Water beginning to trickle over levee. 1937 December 11
   Photographer:
   Scope and Content Note

Box 62:492  725-A-a-14 Putah Creek near golf course. Looking south on county road. 1937 December 11, 12 P.M.
   Photographer: Johnston, C.N.?
   Scope and Content Note

   Photographer: Johnston, C.N.?
   Scope and Content Note

Box 62:494  725-A-a-16 Putah Creek looking down stream from near the R.R. bridge. Note floating driftwood. 1937 December 11
   Photographer:
   Scope and Content Note

Box 62:495  725-A-a-17 Water wells on University Farm. 1940 January
   Photographer: Johnston, C.N. (Weston)
   Scope and Content Note
   Slide no. G 1337

Box 62:496  725-A-a-18 Water levels in deep and shallow wells on University Farm. 1930-1933. 1940 January
   Photographer: Johnston, C.N. (Weston)
   Scope and Content Note
   Slide no. G 1338

Box 62:497  725-A-a-19 Water levels in deep and shallow wells on University Farm. 1936, 1937. 1940 January
   Photographer: Johnston, C.N. (Weston)
   Scope and Content Note
   Slide no. 1340 G

Box 62:498  725-A-a-20 Water levels in deep and shallow wells on University Farm, 1936-1937. 1940 January
   Photographer: Johnston, C.N. (Weston)
   Scope and Content Note
   Slide no. G 1340

Box 62:499  725-A-a-21 Groundwater level contours, Putah Creek Cone, from both deep and shallow wells. Fall, 1936. 1940 January
   Photographer: Johnston, C.N. (Weston)
   Scope and Content Note
   Slide no. G 1341
| Box 62:500 | 725-A-a-22 Power consumption-seasonal pumping drawdown curve for Dixon area. 1940 January |
| Box 62:501 | 725-A-b-1 Paconia creek below canyon, Los Angeles Co., Calif. 1915 February |
| Box 62:502 | 725-A-b-2 San Antonio Wash, Calif. undated |
| Box 62:503 | 725-A-b-3 San Antonio Wash, Calif., below Canyon. undated |
| Box 62:504 | 725-A-b-4 San Antonio Wash, Calif. 1900 |
| Box 62:505 | 725-A-b-5 Snow on mountains and gravels below San Antonio Canon, near Pomona, Cal. where flood waters are stored in gravels for pumping. undated |
| Box 62:506 | 725-A-b-6 Flood in San Antonio Wash below canyon and winter snow on mountains. undated |
| Box 62:507 | 725-A-b-7 Flood at mouth of San Antonio Canyon. undated |
| Box 63:1 | 725-B-1 (a) Diversion wall in Cucomonga wash. N.E. of Claremont, Calif. Flood control in the coastal basin of So. California (b) Control works, water spreading project in Cucomonga wash, n.e. of Claremont 1932 May |
| Box 63:2 | 725-B-2 Diversion structure, water spreading project, Cucomonga wash, N.E. of Claremont, California 1932 May |
| Box 63:3 | 725-B-3 Diversion wall in Cucamonga wash. 1932 May |
Box 63:4
725-B-4 **Tri-county water spreading works, South Coastal Plains project, California.**
(See also 725-13) 1935 May
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 63:5
725-B-5 **Tri-county water spreading works, South Coastal Plains project, California.**
(See 725-12) 1935 May
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 63:6
725-B-6 **Spreading flood water from San Antonio Wash for storage in the gravels.**
undated
Photographer: Tait, C.E.
Scope and Content Note

Box 63:7
See - 700-M-f-77 C.V. Given measuring flow of water in Putah Creek, 1931. 700-M-z-1
Measuring depth of water in hole below Stevenson's bridge, Putah Creek, 1931.
undated
Photographer:
Scope and Content Note

Box 63:8
725 **View of Slichter apparatus installed near headquarters of Reclamation District 999. This was used for measuring underground water flow.** (see 775-26) 1925
Photographer: Johnston, C.N.
Scope and Content Note

Box 63:9
725 **Device used by Major Stout to measure loss of head of ground water passing through sand.** See 775-31 1926
Photographer: Brown, L.N.
Scope and Content Note

Box 63:10
730-A **Caterpillar Tractor Co., Peoria, Ill. 1934 December 27**
Photographer:
Scope and Content Note
Tractor Pumps Water for 8 cents an hour. NEWS ITEM: A 35 h.p. Diesel tractor has recently completed 5500 hours of work in a single year on the ranch of Central Produce Co., Guadalupe, California. The total fuel cost was $450.00, an average of slightly more than 8 cents per hour. To establish this remarkable record, the machine worked double and triple shifts throughout the rush seasons. Much of the work consisted of plowing 12 inches deep with a 5-bottom gang plow, but the tractor was also used for many odd jobs such as driving irrigation pumps.

Box 63:11
730-A-1 **Pump House Below Salter Fill, Modesto Irrigation District, California. 1915 December 5**
Photographer: Hutchins, Wells A.
Scope and Content Note
This picture shows the pump house, trestle, pipe, and sluiced hillside, just below Salter Fill.

Box 63:12
730-A-2 **Pumping Plant for Berries and Vines, Florin, Cal. 1915 September 18**
Photographer: Hutchins, Wells A.
Scope and Content Note
Box 63:13  730-A-3  Pumping Plant and Irrigation Flume, Pajaro Valley, Cal. 1915 August 30
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This pumping plant was located one-quarter of a mile or more from the field to which the water was conducted. Consequently in order to give the necessary grade to the flume, it was necessary to raise it to the height shown in this picture, at the pumping plant. The grade of the main flume is usually about 3-1/2 inches in 100 feet and of the laterals about 1 to 2-1/2 inches. This picture also shows the tressle on which the flume is supported. This tressle consists of 2 inch x 4 inch bents and caps with horizontal and diagonal braces of the same size.

Box 63:14  730-A-4  Pumping Plant and Main Canal for Mallon and Blevin's Rice Tract, Princeton, Cal. 1915 May 18
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This pumps water from the Sacramento River.

Box 63:15  730-A-5  Sasao's Pumping Plant for the Irrigation of Strawberries and Fruit Trees, Sunnyvale, California. 1915 January 18
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 63:16  730-A-6  Pumping Plant of the Sacramento Valley Irrigation Co., above Hamilton City, Cal. 1915 August 19
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 63:17  730-A-7  Pumping Plant and Main Canal of the Sacramento Valley Irrigation Co., above Hamilton City, Cal. 1915 August 9
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This is at the head of the old Central Canal of the Central Irrigation District.

Box 63:18  730-A-8  Pumping Plant of the Lockwood Irrigation District on Yellowstone River, Montana. 1916 November 28
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   Water is delivered from this main pumping plant with 2 lifts of 60 and 100 feet respectively above the low water level of the river. The conduit consists of separate lines of 24-inch wood stave pipe, buried underground. The pipe to the 60 foot canal is 600 feet long and to the 100 foot canal is 1,180 feet long. The pump house has a concrete sub-structure with solid rock foundation, the walls forming a sump, and with a concrete floor and super-structure of Fromberg pressed brick. The roof is of corrugated iron. There are three pumping units directly connected to electric motors. Water enters the sump from the Yellowstone River on the left through two lines of galvanized corrugated iron pipe 75 feet long and respectively 24 and 36 inches in diameter. The pumps deliver 20 cubic feet per second to the 100 foot canal and 15 cubic feet per second to the 60 foot canal.

Box 63:19  730-A-9  Pumping Plant, Lockwood Irrigation District, Montana. 1916 November 28
   Photographer: Hutchins, Wells A.
   Scope and Content Note
| Box 63:20 | 730-A-10 **Pumping Plant of the Avondale Irrigation District on Hayden Lake, Idaho. 1916 November 22**  
| | Photographer: Hutchins, Wells A.  
| | **Scope and Content Note**  
| | This plant contains a pump operated by steam power. |
| Box 63:21 | 730-A-11 **Head of 60-foot Lift, Lockwood Irrigation District, Montana. 1916 November 28**  
| | Photographer: Hutchins, Wells A.  
| | **Scope and Content Note**  
| | In the background is shown the pumping plant on Yellowstone River. |
| Box 63:22 | 730-A-12 **Pumping Plant of the Snipes Mountain Irrigation District, Yakima Valley, Washington. 1916 November 17**  
| | Photographer: Hutchins, Wells A.  
| | **Scope and Content Note**  
| | This plant was installed by the U.S. Reclamation Service under contract with the District. Water is supplied to this plant through the penstock shown on the right from the Sunnyside Canal of the U.S. Reclamation Service. With a drop of 65 feet and a maximum head of water of 90 cubic feet per second, this plant pumps 14 cubic feet per second to a height of 200 feet. This 14 cubic feet per second is delivered to the Snipes Mountain Irrigation District and the balance of the 90 cubic feet per second is used for supplying lower lands under the Reclamation Service Project. This does not constitute the entire water supply of the District, for a pumping plant was already installed to serve 180 acres. |
| Box 63:23 | 730-A-13 **Smaller Pumping Plant, Gem Irrigation District, Idaho. 1916 December 30**  
| | Photographer: Hutchins, Wells A.  
| | **Scope and Content Note**  
| | This shows the back of the plant and the discharge pipe which is of cast iron joined to the wood stave pipe used for carrying the water up to the canal. This pumping plant is located about 2 miles below Homedale on the river, and the main pumping plant of this District, which is very much larger than this one, is located about 11 miles above Homedale. |
| Box 63:24 | 730-A-14 **Smaller Pumping Plant, Gem Irrigation District, Idaho. 1916 December 30**  
| | Photographer: Hutchins, Wells A.  
| | **Scope and Content Note**  
| | The Snake River is shown in the background on the right. Same as Picture No. 45 |
| Box 63:25 | 730-A-15 **Intake of the Smaller Pumping Plant of the Gem Irrigation District, on Snake River, Idaho. 1916 December 30**  
| | Photographer: Hutchins, Wells A.  
| | **Scope and Content Note** |
| Box 63:26 | 730-A-16 **Pumping Plants of Hayden Lake and Avondale Irrigation Districts, on Hayden Lake, Idaho. 1916 November 22**  
| | Photographer: Hutchins, Wells A.  
| | **Scope and Content Note**  
| | The electrically operated plant on the left is that of the Hayden Lake District and the steam plant on the right is that of the Avondale District. Power for the Hayden Lake pumping plant is furnished from the adjoining electric plant of the Hayden Lake Improvement Company, owned by the Spokane and Inland Empire Railway. |
730-A-17 Pumping plant used for Rice Irrigation, Glenn Ranch, Willows, California. 1916 September
  Photographer: Robertson, Ralph D.
  Scope and Content Note
  Pump discharges 2250 gallons per minute.

  Photographer: Robertson, Ralph D.
  Scope and Content Note
  Water is pumped from Sycamore Slough.

730-A-19 Pumping Plant Belonging to the Mills Orchard Company, West of Maxwell, California. undated
  Photographer: Adams, Frank
  Scope and Content Note

730-A-20 Pumping Plant in Santa Clara Valley, California. 1916 August
  Photographer: Robertson, Ralph D.
  Scope and Content Note

730-A-21 Section of Covina Ditch, California. undated
  Photographer: Adams, Frank
  Scope and Content Note
  The small thatched-roof house on the bank of the ditch covers a pumping plant used to raise water to a residence on a higher level. Adjoining the pumping plant is a small concrete reservoir seen on the right.

730-A-22 Pumping Plant in Santa Clara Valley, California. undated
  Photographer: Robertson, Ralph D.
  Scope and Content Note
  Vertical centrifugal pump lifting water 80 feet and discharging 900 gals. per minute.

730-A-23 Main Pumping Plant of Gem Irrigation District, on Snake River, Idaho. undated
  Photographer: Hutchins, Wells A.
  Scope and Content Note
  This print was furnished by Mr. W. W. Peter, Secretary of the Gem Irrigation District.

  Photographer: Adams, Frank
  Scope and Content Note

  Photographer: Hutchins, Wells A.
  Scope and Content Note
Box 63:36  730-A-26 (No neg.) Pumping plant on the Durham Ranch of Stanford University where two wells have been drilled. December, 1917. 1917 December
Photographer: Adams, Frank
Scope and Content Note
The plant is equipped with an 8-inch Dow centrifugal pump and a 50 H.P. Crocker-Wheeler motor.

Photographer: Adams, Frank
Scope and Content Note

Box 63:38  730-A-28 San Dimas Wash, Los Angeles County, below portion shown in Pict. 1918 May
Photographer: Adams, Frank
Scope and Content Note
This is considered the most prolific water bearing area in the State. The first well in San Dimas Wash was drilled in 1895. The pumping lift was then 44 feet. In 1905 it had increased to 100 feet and at the head of the wash where the plants are thickest it had increased to 190 to 220 feet. Later it increased as high as 400 feet in some places. Of the twenty-two plants in the head of the wash, 15 lie within three adjacent quarter sections, also within an area of one-half square mile.

Box 63:39  730-A-29 San Dimas Wash, Los Angeles County, near the mouth of the canyon. 1918 May
Photographer: Adams, Frank
Scope and Content Note

Box 63:40  730-A-30 (No neg.) One of the New Pumping Plants on Southwest Side of Coachella Valley, California. undated
Photographer: Tait, C.E.
Scope and Content Note
The old water line is shown on Coral Reef in background.

Box 63:41  730-A-31 Pumping plant in foothills near Exeter. undated
Photographer:
Scope and Content Note

Box 63:42  730-A-32 A small pumping plant in Santa Clara Valley. undated
Photographer:
Scope and Content Note

Box 63:43  730-A-33 Booster Pumping Plant delivering to rice fields near Dodge Land Company headquarters in Butte Co. - Fall, 1921. 1921
Photographer:
Scope and Content Note

Box 63:44  730-A-34 Mutual Water Company pumping plant lifting water from Western Canal near headquarters of Dodge Land Co. 1921 August
Photographer: Adams, Frank
Scope and Content Note
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Box 63:45  730-A-35 **Pumping plant, intake side - Panoche Water Co. 1922 August**
Photographer: Adams, Frank
Scope and Content Note

Box 63:46  730-A-36 **Well Development in the Owens Valley, Fall of 1925. 1925 Fall**
Photographer: Johnston, C.N.
Scope and Content Note

Box 63:47  730-A-37 **Well development in Owens Valley in the Fall of 1925. 1925**
Photographer: Johnston, C.N.
Scope and Content Note

Box 63:48  730-A-38 **Well development in the Owens Valley in the Fall of 1925. 1925**
Photographer: Johnston, C.N.
Scope and Content Note

Box 63:49  730-A-39 **Well Development in the Owens Valley. 1925**
Photographer: Johnston, C.N.
Scope and Content Note

Box 63:50  730-A-40 **Well development in Owens Valley. 1925**
Photographer: Johnston, C.N.
Scope and Content Note

Box 63:51  730-A-41 **Well development in Owens Valley. 1925**
Photographer: Johnston, C.N.
Scope and Content Note

Box 63:52  730-A-42 **Well Development in Owens Valley. 1925**
Photographer: Johnston, C.N.
Scope and Content Note

Box 63:53  730-A-43 **Well development in Owens Valley. 1925**
Photographer: Johnston, C.N.
Scope and Content Note

Box 63:54  730-A-44 **Well development in Owens Valley. 1925**
Photographer: Johnston, C.N.
Scope and Content Note

Box 63:55  730-A-45 (No neg) **Hansen Brothers Kimball pumping plant. Salinas Valley showing 75 foot stack used to reduce surge in pipe line. 1925**
Photographer: Johnston, C.N.
Scope and Content Note

Box 63:56  730-A-46 **Untitled 1929 August**
Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Pumping Plant No. 1, West Stanislaus Irri. Dist. Automatic equipment. Present installation - 3 Moody spiral pumps, each 18,900 g.p.m. (42 c.f.s.) under 30’ head. Speed 870 R.P.M. 200 H.P. General Electric Induction Motor Head on plant No. 1 varies from about 17.5’ to 35.5’. Ultimate capacity 6 units.
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Box 63:59</td>
<td>730-A-49 Typical pump house, showing discharge pipe leading into 30&quot; concrete stand pipe. J.E. Montgomery ranch near Davis, Calif. 1931 June 19</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Box 63:60</td>
<td>730-A-50 Typical pump house showing discharge pipe leading directly into field ditch. J.E. Montgomery ranch near Davis, Calif. 1931 June 19</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Box 63:61</td>
<td>730-A-51 Rear view of Reclamation District 108 drainage pumping plant showing suction pipes. On Sacramento River near Knights Landing. 1930</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Box 63:62</td>
<td>730-A-52 Pump house made by the California Corrugated Culvert Co. installed in District 999 in the delta of the Sacramento-San Joaquin rivers. 1929</td>
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<td>Photographer: Givan, C.V.</td>
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<td>Box 63:63</td>
<td>730-A-53 Pumping plant on Straloch farm, west of Davis. 1931 August</td>
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<td>Photographer: Givan, C.V.</td>
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<td>Box 63:64</td>
<td>730-A-54 Pumping plant on Fred Hamel ranch, southeast of Davis. 1931 August</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Box 63:66</td>
<td>730-A-56 Typical structure over wood curb pit, pumping plant of Mrs. McCune ranch one mile south of Winters. 1931 August</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Box 63:67</td>
<td>730-A-57 Electrical pumping plant at Birmingham ranch, northwest of Winters 1931 August</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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| Box 63:68 | 730-A-58 **Galvanized iron cover over concrete pit. Pumping plant at Boyce and Boyce ranch, east of Winters. 1931 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 63:69 | 730-A-59 **Corrugated iron pump house and Bean turbine pump, Boyd ranch, west of Winters. 1931 August**  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 63:70 | 730-A-60 **Banta Carbona Pumping Plant #1 1929**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 63:71 | 730-A-61 **Old screw pump parts. Owens Valley trip February 1926. 1925**  
Photographer: Johnston, C.N.  
Scope and Content Note |
| Box 63:72 | 730-A-62 **Picnic Day exhibit 1924**  
Photographer: Johnston, C.N.  
Scope and Content Note |
| Box 63:73 | 730-A-63 **Gasoline pumping plant of Harrison Findlay on Mark West Creek, 4 miles north of Santa Rosa 1916**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 63:74 | 730-A-64 **Booster plant in the Terra Bella Irrigation District water system. 1929**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 63:75 | 730-A-65 **Pump house no. 90, Los Angeles Municipal Water District, Owens Valley 1926**  
Photographer:  
Scope and Content Note |
| Box 63:76 | 730-A-66 **Typical pumping plant (Kimball pump) 1925**  
Photographer: Johnston, C.N.  
Scope and Content Note |
| Box 63:77 | 730-A-67 (3 negs.) **Interior of regulating chamber, Stony Gorge Dam Orland project. undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 63:78 | 730-A-68 **Interior of regulating chamber. Stony Gorge Dam, Orland project undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 63:79 | 730-A-69 **Pumping plant. East Contra Cost Irrigation District 1929**  
Photographer: Adams, Frank  
Scope and Content Note |
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Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| 63:82 | 730-A-72 | Pumping station, Shasta View. (2 view) Orland project. 1929 June 19  
Photographer: Adams, Frank  
Scope and Content Note |
Photographer: Scott, V.H.  
Scope and Content Note  
Slide no 730-A-16 |
| 63:84 | 730-A-74 | Pump for garden irrigation on lateral - Madera Canal, Calif. undated  
Photographer:  
Scope and Content Note |
| 63:85 | 730-A-75 | Pumping Station, Calif. undated  
Photographer: Adams, Frank  
Scope and Content Note |
| 63:86 | 730 | Untitled 1932 October 7  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note  
750-E-51 Cletrac tractor used as portable pumping plant for portable sprinkler system.  
Pump used with 4" Rain pump. Shur-Rane system, Lund Bros., Clarksburg. 750-E-52 John  
Deere equipped with 4" Byron-Jackson centrifugal, driven by V-belt drive. Used for  
portable sprinkler system J.H.Holmes and Sons Ranch, Clarksburg. 750-E-53 Portable  
power and pump unit. Lister 18 H.P. Diesel engine and 3" Worthington pump. Drawn by  
caterpillar 15 tractor. Pumping into 1000' of Rain Machine pipe with sprinklers at 40 feet.  
Holly Sugar Co., Robert Barr, Manager. 750-E-54 Booster pump used on sprinkler pipe  
750-E-73, 74, 87, 89, 90-pictures of portable sprinkling plants-John Deere tractor.  
pumping plants. |
| 63:87 | 730-B | Central stationary pumping plant for sprinkler system. 100 H.P. motor. M.F.  
Hotchkiss, Firebaugh. undated  
Photographer:  
Scope and Content Note  
See 750-E-188 |
| 63:88 | 730-B | Pumping plant for Perf-o-rain sprinkler system. undated  
Photographer:  
Scope and Content Note  
See 750-E-189 |
Box 63:89  730-B-a Papning plant showing arrangement of serge chamber and valves for connection to concrete pipe line, Soledad Land Company, Soledad, Calif. Howard D. Peters, Engineer, Salinas 1940 May  
   Photographer: Christiansen, Jerald Emmet  
   Scope and Content Note  
   See 700-L-b-95a,b,c

Box 63:90  730-B-a-1 Pumping Plant for Rice, River Garden farm Company, Knights Landing, California. 1916 September  
   Photographer: Robertson, Ralph D.  
   Scope and Content Note

Box 63:91  730-B-a-2 (No neg) Pumping Plant for Rice, River Garden farms Company Knights Landing, California. 1916 September  
   Photographer: Robertson, Ralph D.  
   Scope and Content Note

Box 63:92  730-B-a-3 Interior of Pumping House, Reclamation District No. 1500, Sutter Basin July, 1917. 1917 July  
   Photographer: Adams, Frank  
   Scope and Content Note

Box 63:93  730-B-a-4 Pumping Water to a Portion of the Mallon-Blevins Rice Field north of Colusa, California. July, 1917. 1917 July  
   Photographer: Adams, Frank  
   Scope and Content Note

Box 63:94  730-B-a-5 James Canal Pumping Plant on Fresno Slough near Tranquility. 1918 May 31  
   Photographer: Adams, Frank  
   Scope and Content Note  
   This pumping plant is used late in the season to deliver water to lands along James Canal in Tranquility Colony that are riparian to Fresno Slough, the pumped water backing up through Fresno Slough from San Joaquin River.

Box 63:95  730-B-a-6 Pumping Plant and Ditch in Tulare Lake Section. 1918 May 5  
   Photographer: Adams, Frank  
   Scope and Content Note

Box 63:96  730-B-a-7 Booster Pumping Plant No. 1, Terra Bella Irrigation District. 1918 May 7  
   Photographer: Adams, Frank  
   Scope and Content Note  
   Water is brought to this pumping plant through the discharge pipe shown from main pumping plan. This discharge is elevated to give pressure on the delivery lines between the main pumping plant and booster plant No. 1. The aggregate lift in Terra Bella District is 540 feet.

Box 63:97  730-B-a-8 Typical Pumping Unit in the Lindsay Strathmore Collecting Basin. 1918 May 7  
   Photographer: Adams, Frank  
   Scope and Content Note  
   The lift here is about 100 feet.
Box 63:98 730-B-a-10 Direct connected Motor driver, Centrifugal Pumps, Idaho. undated
Photographer: Tait, C.E.
Scope and Content Note

Box 63:99 730-B-a-11 Pump and wells on farm of J.E. Scarlett, near Yolo, Calif. The machinery shown is in a pit 12' deep. 1900
Photographer: Adams, Frank
Scope and Content Note

Box 63:100 730-B-a-12 Pumping from drainage ditch for beets. Talbert, Calif. 1919 April
Photographer: F.W.S.
Scope and Content Note

Box 63:101 730-B-a-13 Pumping plants of Alpaugh Irrigation District. 1919 November
Photographer: Adams, Frank
Scope and Content Note

Box 63:102 730-B-a-14 Typical pumping plant of Alpaugh Irrigation District at Smyrna Wells. 1919 November
Photographer: Adams, Frank
Scope and Content Note
Note excessive lift of pumping plant to main canal.

Box 63:103 730-B-a-15 Gasoline Engine and Pump Pit on Berry and Adams Rice Farm, near Marysville. 1918 July
Photographer: Adams, Frank
Scope and Content Note

Box 63:104 730-B-a-16 (No neg) Side view of Wood Screw Pump Installation, Sacramento Valley Westside Canal Company. 1919
Photographer: Brown, J.B.
Scope and Content Note

Box 63:105 730-B-a-16a (No neg) Installing wood screw pump (350 sec. foot) Glenn Colusa, I.D. 1919 July or August
Photographer: Brown, J.B.
Scope and Content Note

Box 63:106 730-B-a-17 (No neg) Wood Screw Pump Installation. Sacramento Valley Westside Canal Co. (Now Glenn Colusa Irrig. Dist.) 1919
Photographer: Brown, J.B.
Scope and Content Note

Box 63:107 730-B-a-18 Pumping plant of Glenn-Colusa Irrigation District. 1920 March
Photographer: Adams, Frank
Scope and Content Note
Old syphon pump shown in the foreground on right. First unit centrifugal in first section of pumping house on right. Old turbine pumps (3) in middle section. First Unit Wood screw pump on the left. On extreme left preparing foundations for additional Wood pump units.
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<tr>
<th>Box 63:108</th>
<th>730-B-a-19 Pump and galvanized iron stand pipe Leroy Anderson Farm, Santa Clara Valley. 1920 March</th>
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<td>Photographer: Adams, Frank</td>
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<th>Box 63:109</th>
<th>730-B-a-20 Rice Pumping plant above dredger cut of Reclamation District A80. 1918</th>
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<td>Photographer: Adams, Frank</td>
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<td></td>
<td>Picture taken during water shortage of summer of 1918 when water in dredger cut fell below suction of numerous pumping plants delivering water to rice lands above this dredger cut.</td>
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<th>Box 63:110</th>
<th>730-B-a-21 Booster plant and outlet from main pumping plant, Terra Bella Irrigation District. 1918 May</th>
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<td></td>
<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<th>Box 63:111</th>
<th>730-B-a-22 Pumping plant - Delhi Irrigation Experimental tract, immediately after installation, spring, 1921. 1921</th>
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<td></td>
<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 63:112</th>
<th>730-B-a-23 Pumping plant at head of Central Canal - Glenn-Colusa Irrigation District. On left, battery of four wood screw pumps; on right, housing for centrifugal pumps. circa 1922</th>
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<td></td>
<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 63:113</th>
<th>730-B-a-24 Down stream side of pumping plant - head of Glenn-Colusa, -Central Canal- Glen Colusa Irrigation District. On the right, suction end of wood screw pumps; on the left, suction end of centrifugal pumps. 1922</th>
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<td>Photographer:</td>
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<th>Box 63:114</th>
<th>730-B-a-25 Battery of wood screw pumps under installation at head of Central Canal - Glenn Colusa Irrigation District. 1922</th>
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<td>Photographer:</td>
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<td>Scope and Content Note</td>
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<th>Box 63:115</th>
<th>730-B-a-26 Pumping plant on one of the Walton Orchard Company's Orchards, Showing excess lift. Yuba City, California. 1916 August</th>
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<td>Photographer: H.K.F.</td>
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<td>Scope and Content Note</td>
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<th>Box 63:116</th>
<th>730-B-a-27 Typical pumping plant, Boston Land Company near Huron. 1918 May 6</th>
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<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<td></td>
<td>When this project was visited, May 6, 1918, 37 or 38 pumping plants similar to this had been installed, the wells being 1600 to 2610 feet deep with only 5 or 6 under 2000 feet in depth, but with none of the casings perforated above 1000 feet below the surface.</td>
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<td>Box</td>
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<td>63:126</td>
<td>730-B-a-36</td>
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</table>
Box 63:128  730-B-a-38  **Glenn-Colusa Irrig. Dist. Pumping Plant from east bank of canal 1928 June 23**

   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 63:129  730-B-a-38a  **Glenn-Colusa pumping plant from west bank of canal showing wood-screw pumps. 1928**

   Photographer: Adams, Frank
   Scope and Content Note

Box 63:130  730-B-a-39 (2 neg.)  **Glenn Colusa pumping plant from west bank of canal showing wood- screw pumps. 1928 June 23**

   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 63:131  730-B-a-40  **Pumping plant of Big Springs Water Company, taken over by Big Springs Irrigation District. 1928 July 24**

   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 63:132  730-B-a-41 (No neg.)  **A typical pumping plant for sprinkler operation. Such pumping plants are necessary when the water supply is not under pressure or when available pressure is inadequate. (Fig. 12, Overhead Sprinkling.) undated**

   Photographer: Wadsworth, H.A.
   Scope and Content Note

Box 63:133  730-B-a-42 (No neg.)  **Pumping plant, general view, Docini, Davis. undated**

   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 63:134  730-B-a-43  **Testing pumping plant. Horizontal Centrifuge. undated**

   Photographer: Beckett, Samuel H.
   Scope and Content Note

Box 63:135  730-B-a-44  **Walking beam pump. Tulare County. undated**

   Photographer: Beckett, Samuel H.
   Scope and Content Note

Box 63:136  730-B-a-45  **Pomona deep-well pump and pump house, Pomona, California, 1915. 1915**

   Photographer: Beckett, Samuel H.
   Scope and Content Note

Box 63:137  730-B-a-46  **Temporary installation, Delhi pumping plant, 1921. 1921**

   Photographer: 
   Scope and Content Note

Box 63:138  730-B-a-47  **Irrigation pumping plant, Cache Valley, Logan, Utah. 1922 August**

   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
| Box 63:139 | 730-B-a-48 **Runners from 2-stage Well turbine after 10 years operation in Well No.1, University Farm, Davis, Calif.** 1929 May 6  
Photographer: Givan, C.V.  
Scope and Content Note |
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 63:141 | 730-B-a-50 **Layne and Bowler turbine pump, Westinghouse motor used for irrigation at the G.K. Swingle ranch, east of Davis, Calif.** 1931 June 19  
Photographer: Givan, C.V.  
Scope and Content Note |
| Box 63:142 | 730-B-a-51 **Pumping plant used for watering stock and flooding duck pond. S.H. Cowell ranch, 5 miles east of Davis.** 1931 August  
Photographer: Givan, C.V.  
Scope and Content Note |
| Box 63:143 | 730-B-a-52 **Tractor plant on Russell Ranch, east of highway to Madison, three miles north of Winters.** 1931 August  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 63:144 | 730-B-a-53 **Tractor pumping plant, Thurber's ranch, Pleasant Valley, west of Winters.** 1931 August  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 63:145 | 730-B-a-54 **10" split case, double suction Byron Jackson horizontal centrifugal pump powered with 10-20 HP John Deere tractor on Roby ranch east of Winters. Maximum discharge approximately 2300 g.p.m.** 1931 August  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 63:146 | 730-B-a-55 **Pelton pump in new well, City of Winters, east of railroad track.** 1931  
Photographer: Givan, C.V.  
Scope and Content Note |
| Box 63:147 | 730-B-a-56 **Ira Gordon pumping plant, Layne and Bowler belted pump, 4 miles southeast of Davis.** 1931  
Photographer: Christiansen, Jerald Emmet  
Scope and Content Note |
| Box 63:148 | 730-B-a-57 **Tractor plant on Schmeiser ranch, Yolo County 1931**  
Photographer: V.G.-A.P.  
Scope and Content Note |
| Box 63:149 | 730-B-a-58 **Impellors from old Hart pump on Mulhauser ranch, Yolo Co.** Note rubber bearings. 1931  
Photographer: V.G.  
Scope and Content Note |
Box 63:150  730-B-a-59 Tractor plant on Wm. Oeste Estate ranch, Yolo Co. 1931
   Photographer: V.G.
   Scope and Content Note

Box 63:151  730-B-a-60 Centrifugal pump used for pumping from lateral ditch in Reclamation
   District 999 in the Delta of the Sacramento-San Joaquin rivers 1929
   Photographer: Givan, C.V.
   Scope and Content Note

Box 63:152  730-B-a-61 Drawing from which demonstration and experimental pump assembly was
   made by Sterling Pump Company 1930 March
   Photographer: Givan, C.V.
   Scope and Content Note

Box 63:153  730-B-a-62 (2 neg.) Pumping plant No. 10 in Reclamation District 999. 60-inch siphon
   on left. 1928
   Photographer: MRH
   Scope and Content Note

Box 63:154  730-B-a-63 Centrifugal pump used in pumping water from canal to ground surface,
   Reclamation District 999. 1928
   Photographer: MRH
   Scope and Content Note

Box 63:155  730-B-a-64 Layne and Bowler turbine pump driven by Fordson tractor. Watkins Bros.
   ranch south of Davis. 1931 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 63:156  730-B-a-65 Spencer and Machado pumping plant on south bank of Putah Creek, west
   of State highway. 1931 August
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 63:157  730-B-a-66 Typical pumps, (1) Split-shell centrifugal pump; (2) single-suction
   centrifugal pump; (3) deep well turbine; (4) Single screw from deep well pump; (5)
   rotary displacement priming pump. (The pump appears just above the number) 1924
   Photographer: Johnston, C.N.
   Scope and Content Note

Box 63:158  730-B-a-67 (3 neg.) Removal of pump from well No. 2, University Farm, Davis 1924
   Photographer: Johnston, C.N.
   Scope and Content Note

Box 63:159  730-B-a-68 View of pump removed from well no. 2, University Farm, Davis 1924
   Photographer: Johnston, C.N.
   Scope and Content Note

Box 63:160  730-B-a-69 Pump parts removed from well No. 2, University Farm, Davis. 1924
   Photographer: Johnston, C.N.
   Scope and Content Note
Box 63:161
730-B-a-70 Removal of pump from well no. 2, University Farm, had casing had collapsed. 1924
Photographer: Johnston, C.N.
Scope and Content Note

Box 63:162
730-B-a-71 Booster pumping plant, No. 1, West Stanislaus I.D. 1929
Photographer: MRH
Scope and Content Note

Box 63:163
730-B-a-72 An Adams Diesel engine under test in shop at Los Angeles. undated
Photographer: Adams, Frank
Scope and Content Note

Box 63:164
730-B-a-73 Pumping Plant, West Stanislaus Irrigation Dist. similar to view shown in Bul. 21, p.166 1929
Photographer: Adams, Frank
Scope and Content Note
See photo no. 730-B-a-74.

Box 63:165
730-B-a-74 Pumping plant, West Stanislaus Irrigation District Similar to page 166, Bulletin 21. undated
Photographer: Adams, Frank
Scope and Content Note

Box 63:166
730-B-a-75 Some pumping plants of Rancho Wells area of Lindsay Creek. undated
Photographer: Adams, Frank
Scope and Content Note

Box 63:167
730-B-a-76 Installing Byron Jackson Submersible pump in #8 well. Aug. 1938 1938
August 18
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 63:168
730-B-a-77 Portable pumping plant for pumping water over levees. Seen at Burnham's Ranch, 8 mi. N. of Lost Hills, Calif. 1938 August 12
Photographer: Christiansen, Jerald Emmet
Scope and Content Note

Box 63:169
730-B-a-78 Sta. Cir. 312. Fig. 1.-Typical pumps. (1) Split-shell centrifugal pump opened for inspection; (2) single-suction centrifugal pump opened for inspection; (3) deep well turbine model with runners and shaft exposed, full-sized bowls and runner being shown in front; (4) single screw from deep well pump; (5) rotary displacement priming pump. (Pump appears just above number.) 1928
Photographer: Johnston, C.N.
Scope and Content Note

Box 63:170
730-B-a-79 Sta. Cir. 312. Fig. 6.-Typical well rig used for heavy drilling. Note scow being dumped. 1928
Photographer: Johnston, C.N.
Scope and Content Note
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<th>Box 63:171</th>
<th>730-B-a-80 Sta. Cir. 312. Fig. 11.--Typical deep-well pumping plant in house. 1928</th>
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<td>Photographer: Johnston, C.N.</td>
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<td>Box 63:172</td>
<td>730-B-a-81 Impeller for centrifugal pump 1940 June 13</td>
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<td>Photographer: Weston for Givan, C.V.</td>
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<td>Box 63:173</td>
<td>730-B-a-82 Measuring discharge from pumping plants in Santa Clara Valley. Investigations conducted by C.V. Givan. Approx. 1934</td>
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<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<td>Box 63:174</td>
<td>730-B-a-83 Discharge from pumping plants in Santa Clara Valley investigations conducted by C.V. Givan. 1934</td>
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<td>Photographer: Adams, Frank</td>
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<td>730-B-a-84 Discharge from pumping plants in Santa Clara Valley investigations conducted by C.V. Givan. 1934</td>
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<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<td>730-B-a-85 Discharge from pumping plants in Santa Clara Valley. Investigations conducted by C.V. Givan. 1934</td>
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<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<td>Box 63:177</td>
<td>730-B-a-86 Discharge from pumping plants in Santa Clara Valley. Investigations conducted by C.V. Givan. 1934</td>
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<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<td>Scope and Content Note</td>
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<td>Box 63:179</td>
<td>730-B-a-89 Low lift propeller pump in canal 30 miles north of Mendota, Fresno Co. 1954 April 28</td>
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<td>Photographer: V.H.S.</td>
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<td>Box 63:180</td>
<td>730-B-a-90 Untitled undated</td>
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<td>Photographer:</td>
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<td>Scope and Content Note</td>
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<td>Box 63:181</td>
<td>730-B-a-91 Centrifugal pump on pit connected with 3 wells on Yolo Orchard 1900</td>
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<td>Photographer: Adams, Frank</td>
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<td>Box 63:182</td>
<td>730-B-a-92 Portable gasoline pumping engine used along Cache Creek Calif 1900</td>
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<td>Box 63:183</td>
<td>730-B-c-1 Wheel lifting water for Irrigation Directly Above Intake of Anderson-Cottonwood Irrigation District at Redding, California. undated</td>
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<td>730-B-c-2 Mallon and Blevins Water Wheel. (Same as Picture No. 730-B-c- 3) 1917 May 1</td>
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<td>730-B-c-3 Yuba Water Wheels, Mallon and Blevins Tract near Maxwell, California Rice Duty of Water Investigations in Sacramento Valley, 1917. 1917 May 1</td>
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<td>730-B-c-4 Low Lift Water Wheel. 1917 July</td>
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<td>Box 63:187</td>
<td>730-B-c-5 Water Lift, Tulare Lake Section. 1918 May 05</td>
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<td>Box 63:188</td>
<td>730-B-c-6 Water Wheel in 4-way Structure in Tulare Lake Section. 1918 May 05</td>
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<td>730-B-c-10 Current wheel for lifting drainage water into Fresno Canal. Drainage from Faucher Creek nursery and Sunnyside Vineyar, Fresno, Calif. undated</td>
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<td>730-B-c-11 Current lift wheel on Fancher Creek Nursery, Fresno County, Calif. 1903 November</td>
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<td>Box 63:191</td>
<td>730-B-c-12 Current wheel in Modesto Canal for raising water to caretaker's house. undated</td>
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<td>Box 63:192</td>
<td>730-B-c-13 Current wheel on Fancher Creek Nursery, Fresno Co., Calif. 1903 November</td>
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Box 63:193  730-B-c-14 Water wheel, Geo. Roeding Ranch, Fresno, Calif. undated
  Photographer:
  Scope and Content Note

Box 63:194  730-B-c-15 Home-made water elevator. 1900
  Photographer: Adams, Frank
  Scope and Content Note
  On farm of O.J. Adams, south side of Cache Creek below Nelson bridge, Calif. This elevator
takes water from Cache Creek, which irrigates orchard. Pump did not cost in all more
than $5.00

Box 63:195  730-B-c-16 Up-stream view of water wheel for low lifts, Mallon and Blevins Canal.
1918 November
  Photographer: Adams, Frank
  Scope and Content Note

Box 63:196  730-B-c-17 Water wheel for low water lifts, Mallon and Blevins Rice Canal. Sacramento
Valley. 1918 November
  Photographer: Adams, Frank
  Scope and Content Note

Box 63:197  730-B-c-18 Water wheel for low lifts, Mallon and Blevins Rice Canal. 1918 November
  Photographer: Adams, Frank
  Scope and Content Note

Box 63:198  730-B-c-19 Drawing of current wheel in Francher Creek Nursery, Fresno, Calif. undated
  Photographer:
  Scope and Content Note
  Engineering has negative

Box 63:199  730-B-c-20 Current wheel on Riverside W. Cos. Upper Canal undated
  Photographer:
  Scope and Content Note

Box 63:200  730-B-c-21 7000 GPM water wheel on Moneta Ranch near Colusa held well to 4” above
that centrifugal baiter 1915 June 13
  Photographer:
  Scope and Content Note

Box 63:201  730-B-d-1 Manometer tube and pitot tube used by Mr. I.H. Teilman, Consolidated Irrig.
Dist. for testing pumps. Mr. Teilman claims that he obtains very reliable results with
this type of measuring device. 1929 July 9
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 63:202  730-B-d-2 Pump test on Bassett Ranch, west of Winters 1931
  Photographer: V.G.-A.P.
  Scope and Content Note

Box 63:203  730-B-d-3 Test of pumping plant on Theodore Thorp’s ranch, Winters. 1931
  Photographer: Christiansen, Jerald Emmet-V.G.
  Scope and Content Note
Box 63:204  730-B-d-4  Test of pumping plant, Robinson's ranch, one mile and half east of Winters. 1931
  Photographer: V.G.-A.C.
  Scope and Content Note

Box 63:205  730-B-d-5  Power losses and efficiencies of pumps. Before repair. San Joaquin Light and Power Co. 1938 February 15
  Photographer: 
  Scope and Content Note
  Slide no. 1221G

Box 63:206  730-B-d-6  Power losses and efficiencies of pumps. After repair. San Joaquin Light and Power co. 1938 February 15
  Photographer: 
  Scope and Content Note
  Slide no. 1222G

Box 63:207  730-B-d-7  Pump testing, Wolfskill Experimental Orchard, Winters, Calif. George Odell reading manometer. 1938 December 1
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 63:208  730-B-d-8  Pump testing, Wolfskill Experimental Orchard, Winter, Calif. 2-foot rectangular weir. 1938 December 1
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 63:209  730-B-d-9  Pump testing, Wolfskill Experimental Orchard, Winters, Calif. 2-foot rectangular weir. 1939 December 1
  Photographer: Christiansen, Jerald Emmet
  Scope and Content Note

Box 63:210  730-C-a-1  Pacific Gas & Electric Power House and Penstock, Brown's Valley Irrigation District, Yuba Co., California. 1916 June 7
  Photographer: Hutchins, Wells A.
  Scope and Content Note
  After being used for power, the water is delivered to the irrigation district. July 8, 1921 - This power house has a since been abandoned. - Hutchins, Wells A.

Box 63:211  730-C-a-2  Upper power house, San Antonio Canon, near Pomona, Calif. Pacific Light and Power Co. owner. undated
  Photographer: Tait, C.E.
  Scope and Content Note

Box 63:212  730-C-a-3  Middle power house, San Antonio Canon, near Pomona, Calif. Ontario Power Co. owner. undated
  Photographer: Tait, C.E.
  Scope and Content Note
| Box 63:213 | 730-C-a-4 Lower power house, San Antonio Canon, near Pomona, Calif. Ontario and San Antonio Heights Railway Co. owner. undated |
| Box 63:214 | 730-C-a-5 Power House at Don Pedro Dam 1928 October 28 |
| Box 63:215 | 730-C-b-1 Pumps and Motors, Main Pumping Plant, Gem Irrigation District, Idaho. undated |
| Box 63:216 | 730-C-b-2a Gasoline Engine No. 2 25 HP, owned by S.V.Scarlett, Calif. This engine used for pumping from Cache Creek on a number of ranches. 1900 |
| Box 63:217 | 730-C-b-2 (No neg.) Motors, Main Pumping Plant, Gem Irrigation District, Idaho. undated |
| Box 63:218 | 730-C-b-3 Pumping Engine, Calif. 1900 |
| Box 63:219 | 730-B-4 Untitled undated |
| Box 63:220 | 730-B-5 Untitled undated |
| Box 63:221 | 730-B-6 Untitled undated |
| Box 63:222 | 730-C-c-1 Sub-station, Modesto Irrigation District power plant. 1924 May 22 |
| Box 63:223 | 730-C-c-2 Power sub-station - Modesto Irrigation District, May 22, 1924. 1924 May |
730-C-c-3  **Effect of water lift on power requirement. San Joaquin Light and Power Co.**

*1938 February 15*

Photographer: 
Scope and Content Note 
Slide no. 1220G

730-C-c-4  **Save 1/2 the power by using the wheel in place of the centrifugal collins water wheel 1918 April 27**

Photographer: Adams, Frank
Scope and Content Note

730-C-d-1 (No neg)  **Vegetable Gardens, Irrigated by Windmills, South San Francisco, California. 1916 March 11**

Photographer: Hutchins, Wells A.
Scope and Content Note

730-C-d-7  **Typical hilltop irrigation SW of Colma, vegetables irrigated from wind mills. Elevation about 600'. 1920 November 9**

Photographer: Hutchins, Wells A.
Scope and Content Note

730-Z-1  **Waste in Pumping. Note Distance water is carried above ground surface. Yuba City, California. 1916 August**

Photographer: Robertson, Ralph D.
Scope and Content Note

730-Z-2  **Mat of fig roots taken from well on A.M. Thorpe ranch near Winters, Calif. Width of mat represents inside circumference of well. 1931 June**

Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Root growth took place around the outside of the suction pipe of a centrifugal pump and inside the 12-inch well casing. Length of mat was about 7 feet.

735-A-1  **Thornton’s Well, Palo Verde Mesa, California. 1914 December**

Photographer: Tait, C.E.
Scope and Content Note

735-A-3  **Artesian Well, Upper Lake, Calif. This well has never given out. 1900**

Photographer: Adams, Frank
Scope and Content Note

730-A-5  **Valley above Terra Bella Irrigation District showing ranch of 100 acres proposed to be purchased by the district for a Pumping ground. 1919 November**

Photographer: Adams, Frank
Scope and Content Note
Deer Creek borders the ranch along the timber. A little to the right of the center of the picture a new well being bored.

730-A-6  **Artesian Wells on east side of Big Springs, Siskiyou County. 1928 July 24**

Photographer: Christiansen, Jerald Emmet
Scope and Content Note
Box 64:5  735-A-7 Douglas hand pump no. 4. Well used for measuring depth to ground water in Putah Creek investigations. SE1/4, S36, 8N, R1W 1931 August
Photographer: Givan, C.V.
Scope and Content Note

Box 64:6  730-A-8 Well used for measuring depth to ground water in Putah Creek investigation. S10, 7N1E. 1931 August
Photographer: Givan, C.V.
Scope and Content Note

Box 64:7  735-A-15 Blowers' well, S.E. of Woodland 1931 September
Photographer: Givan, C.V.
Scope and Content Note

Box 64:8  735-B-46 Lantern slide negatives as follows filed in envelope 735-B-46 1935
Photographer: MRH
Scope and Content Note

Box 64:9  740-A-2 Clearing brush from raw land with railroad rail and 8 horses. 1906 October
Photographer: Tait, C.E.
Scope and Content Note

Box 64:10  740-A-3 Leveling land, Imperial Valley. Removing hummocks with Fresno scrapers. 1906 September
Photographer: Tait, C.E.
Scope and Content Note

Box 64:11  740-A-4 Clearing brush from new land in Imperial Valley, Calif. with the Beam. This not only clears the brush but also removes a portion of the small hummocks undated
Photographer: Tait, C.E.
Scope and Content Note

Box 64:12  740-A-5 Rock Removed from Land for Planting Orange Orchard, near Claremont, California. undated
Photographer: Tait, C.E.
Scope and Content Note
The cost of preparing the land was $250 per acre.

Box 64:13  740-A-6 Clearing ground for irrigation, Modesto, Calif. undated
Photographer:
Scope and Content Note

Box 64:14  740-A-9 Uncleared sage brush land, Malin I.D. Orland project. 1929 June
Photographer: Adams, Frank
Scope and Content Note
Box 64:15 740-A-10 *Weighted rubber tired wheel tractor used in combination with a carry-all for earth moving. Taken near Campbell Tract. 1953 April*
   Photographer: Marr
   Scope and Content Note

Box 64:16 740-B *See 775 for Home made level undated*
   Photographer: 
   Scope and Content Note

Box 64:17 740-B-1 *Leveling Very Sandy Land, Fairmead Colony, Madera County, California. 1915 February 24*
   Photographer: Hutchins, Wells A.
   Scope and Content Note

Box 64:18 740-B-2 *Levelling check with Fresno scraper, Grain irrigation plat, Modesto, Calif. undated*
   Photographer: Adams, Frank
   Scope and Content Note

Box 64:19 740-B-3 *Drag for levelling land, Willows, California. 1916 March*
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:20 740-B-4 *Levelling Land for Rice on Spalding Ranch Willows, California. undated*
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:21 740-B-5 *Levelling Land for alfalfa, Davis, California 1916 October*
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:22 740-B-6 *"Leveller" for Grading Land, Willows, California. 1916 September*
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:23 740-B-7 *"Leveller" for Grading Lnd, Willows, Cal. 1916 September*
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:24 740-B-8 *Drag for Levelling Land, Willows, California. 1916*
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:25 740-B-9 *Levelling Land for Rice, Wiltons, California. Heavy Drag Pulled by Tractor. undated*
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:26 740-B-10 *Buck Scraper, Unloaded, Imperial Valley, California. 1916*
   Photographer: Tait, C.E.
   Scope and Content Note
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<th>Box</th>
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| 64:27 | 740-B-11 | **Buck Scraper, Loaded, Imperial Valley, California. 1916**  
Photographer: Tait, C.E. | |  |
| 64:28 | 740-B-12 | **Levelling Land on Guersney Tract near Stockton, California, with Holt Caterpillar Land Leveller. undated**  
Photographer: Adams, Frank  
Scope and Content Note: This leveller is worked in the stubble without any previous plow tug. Hummocks are being cut down and depressions filled. | |  |
| 64:29 | 740-B-13 | **Levelling Land on Guersney Tract near Stockton, California, with Holt Caterpillar Land Leveller. 1917 August**  
Photographer: Adams, Frank  
Scope and Content Note: This leveller is worked in the stubble without any previous plowing. Hummocks are being cut down and depressions filled. | 1917 August |  |
| 64:30 | 740-B-14 | **Leveling check with Fresno scraper. Grain irrigation palt, Modesto, Cal. undated**  
Photographer: | |  |
| 64:31 | 740-B-16 | **Preparing Land for alfalfa Irrigation, Willows, Cal. Tractor and Checker. 1916**  
Photographer: Robertson, Ralph D.  
Scope and Content Note: | |  |
| 64:32 | 740-B-17 | **Side of Lovelock tail buck scraper. 1918 May 18**  
Photographer: Adams, Frank  
Scope and Content Note: | 1918 May 18 |  |
| 64:33 | 740-B-18 | **Tail buck scraper on Ontario Sewage Farm made in Lovelock, Nevada. 1918 May 18**  
Photographer: Adams, Frank  
Scope and Content Note: | 1918 May 18 |  |
| 64:34 | 740-B-19 | **Land levelled for border irrigation of alfalfa, Menlo Park, Sacred Heart Academy. 1920**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note: | 1920 |  |
| 64:35 | 740-B-20 | **Land levelled for border irrigation of alfalfa, Sacred Heart Academy, Menlo Park. 1920**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note: | 1920 |  |
| 64:36 | 740-B-21 | **Levelling land subsequently planted to Muir peaches. Delhi Experimental Irrigation Tract. undated**  
Photographer: | |  |
| Box 64:37 | 740-B-22 Levelling land for alfalfa, Davis, Calif. 1916 October |
| Box 64:38 | 740-B-23 Fig. 2. House Document No. 539, International Water Commission report. Looking east across a newly prepared tract of land 2 miles south of Wellton, Gila River Valley, Arizona, page 112. undated |
| Box 64:39 | 740-B-24 Six-yard Schmeiser land leveler pulled by Diesel 35, Caterpillar Tractor Co. photograph, see data file 117.3 1934 October 26 |
| Box 64:40 | 740-B-25 Leveling and smoothing a field with a one-man operated leveler float. 1938 April |
| Box 64:41 | 740-B-26 Marvin leveller. Wheel base 60 ft. Knights Landing. 1938 April 1 |
| Box 64:42 | 740-B-27 Grading land for ladino clover. Wyatt’s ranch, Oakdale, Calif. Caterpillar tractor and Le Tourneau scraper. Contract, $14.00 per acre. 1938 August 9 |
| Box 64:43 | 740-B-28 Land preparation for alfalfa. Levees have been thrown up for pre-irrigation, Dan Best’s ranch near Knights Landing. Sept. 2, 1938. 1938 September 2 |
| Box 64:45 | 740-B-30 Land leveler built by Schmeiser Mfg. Co., Davis. Owned by Eakel Bros., Woodland, Calif. This is one of a few such machines that was constructed on order. Said to be very satisfactory, the partial disadvantage being it requires 2 men to operate it. 1938 August |
| Box 64:46 | 740-B-31 Leveler built and used by M. I. Sanderson, Davis, Calif. Sept. 2, 1938. Hydraulically operated. Cost approximately $400.00. 1938 September 2 |
Box 64:47  740-B-32 Le Tourneau Carry-all scraper operated with caterpillar RD 7 tractor. Weyand Ranch between Davis and Dixon. This outfit was operated by Nichols Creagin, Modesto. Sept 2, 1938 1938 September 2
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 64:48  740-B-33 Matley scraper with airlift in use near Dixon, California, operated with Caterpillar RD 4 tractor. 1938 September 2
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. H-1281

Box 64:49  740-B-34 George Knaggs’ land leveller used by him, 5 miles west of Dixon, south of Putah Creek Bridge. Machine built by Joe West, Dunnigan. Machine has a 60 ft. wheel base "tumble bug" scraper. 1938 September
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 64:50  740-B-35 Detail of leveling machine built by Joe West, College City. machine used by Jesse Knaggs near Davis. This picture taken on Sept. 2, 1938. 1938 September
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   H-1282

Box 64:52  740-B-37 Leveling machine built and used by Dan Best, Woodland, California. The machine has 75' wheel base and is 12' wide. Drawn by Caterpillar D8 tractor. Machine cost about $1,000 to build. Picture shows machine second time over field. 1938 September 2
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note
   Slide no. 740-B-31

Box 64:53  740-B-38 Sorenson Brothers' leveler, Mendota, Calif. 1938 September 2
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 64:54  740-B-39 Caterpillar Diesel D7 tractor pulling Marvin land plane in 3rd gear. The D7 is used for general farm work, consumes 3 1/2 gals fuel per hr. Owner, River farms Co., Knights Landing. 1938 October 18
   Photographer: Caterpillar Tractor Co.
   Scope and Content Note
   Slide no. 740-B-32
Box 64:55 740-B-40 Caterpillar Twenty-Two pulling home made leveler preparing ground for planting chili peppers. Operating on 2 gals. 6 1/2 fuel per hr. Owner, Taisuke Yasukochi, San Luis Rey, Calif. 1938 January 30
  
  Photographer: Caterpillar Tractor Co.
  
  Scope and Content Note
  
  Slide no. 740-B-33

Box 64:56 740-B-41 Caterpillar Diesel RD4 pulling land leveler, preparing beds for planting strawberries. Working 10 hrs. day on 2 gals 6 cents fuel per hr. Owner, Yamamoto Bros, Salines Calif. 1938 January 19
  
  Photographer: Caterpillar Tractor Co.
  
  Scope and Content Note
  
  Slide 740-B-34

Box 64:57 740-B-42 Caterpillar Diesel RD4 pulling homemade float, preparing 4000 acres for tomatoes. Cover 60 acres in two 11-hr. shifts, consuming 2 1/2 gals. 5 cents fuel per hr. This RD4 has operated 5000 hours, and is one of a fleet of Caterpillars on this 7000 acre enterprise. Owner, H.P. Garin Co., Brentwood, Calif. 1937 April
  
  Photographer: Caterpillar Tractor Co.
  
  Scope and Content Note
  
  740-B-35

Box 64:58 740-B-43 (No neg.) Scraper and clod crusher. T.G.Schmeiser ranch, Fresno. 1940
  
  Photographer: T.G.Schmeiser
  
  Scope and Content Note

Box 64:59 740-B-44 Two views of Marvin land planer. Field S.W. of Woodland, California. The width of this machine is 8 or 10 ft. and the wheel base is 60 ft. The position of the scraper is adjustable. The usual practice is to set it a little higher for the first time over the field, and then set it down so it forms a true plane. 1942 March 16
  
  Photographer: Christiansen, Jerald Emmet
  
  Scope and Content Note

Box 64:60 740-B-45 (a) View of land recently levelled with the Marvin land planer. (see 740-B-44). (b) View of land leveler seen about 5 miles S.W. of Woodland. This machine is about 12 ft. wide and has a wheel base of about 40 ft. This machine is ingenious with respect to the electrical control of the position of the scraper. By means of ropes it can be pulled from the tractor seat. The scraper can be moved up or down with a small electric motor driven by storage batteries. 1942 March 16
  
  Photographer: Christiansen, Jerald Emmet
  
  Scope and Content Note

Box 64:61 740-B-46 Land leveling equipment consisting of Ateco Carry-All, Serial No. 2304, Model No. H-81 made by American Tractor Equipment Corp, Oakland, California and International Diesel Tractor T.D. 18. Level work in progress on Solano Tract, University farm, Davis, Calif. 1948 October 7
  
  Photographer: Scott & Marr
  
  Scope and Content Note
   Photographer: Scott & Marr
   Scope and Content Note

Box 64:63  740-B-48 Land leveling equipment consisting of Ateco Carry-All, Serial No. 2304, Model No. H-81, made by American Tractor Equipment Corp., Oakland, Calif. and International Diesel tractor T.D. 18. Level work in progress on Solano Tract, University Farm, Davis, Calif. 1948 October 7
   Photographer: Scott & Marr
   Scope and Content Note

Box 64:64  740-B-49 Land leveling equipment consisting of Ateco Carry-All, Serial No. 2304, Model No. H-81, made by American Tractor Equipment Corp., Oakland, Calif. and International Diesel Tractor T.D. 18. Level work in progress on Solano Tract, University farm, Davis, Calif. 1948 October 7
   Photographer: Scott & Marr
   Scope and Content Note

Box 64:65  740-B-50 Land leveling equipment consisting of Ateco Carry-All, Serial No. 2304, Model No. H-81, made by American Tractor Equipment Corp., Oakland, Calif. and International Diesel Tractor T.D. 18. Level work in progress on Solano Tract, University farm, Davis, Calif. 1948 October 7
   Photographer: Scott & Marr
   Scope and Content Note

Box 64:66  740-B-51 Land leveling equipment consisting of Ateco Carry-All, Serial No. 2304, Model No. H-81, made by American Tractor Equipment Corp., Oakland, Calif. and International Diesel tractor T.D. 18. Level work in progress on Solano Tract, University Farm, Davis, Calif. 1948 October 7
   Photographer: Scott & Marr
   Scope and Content Note

Box 64:67  740-B-52 Landplane used for smoothing land. 1949 July 14
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:68  740-B-53 Small chisel for renovating land following leveling. 1949 July 14
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:69  740-B-54 Border machine, owned by Mr. Craft, Oakdale, Calif. for making narrow checks (15 ft.) for pasture irrigation. Equipped with wings for making 21 ft. checks. Rear view. 1949 July 14
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:70  740-B-55 Border machine, owned by Mr. Craft, Oakdale, California for making narrow checks (15 ft.) for pasture irrigation. Equipped with wings for making 21 ft. checks. Rear view with blades in cutting position. 1949 July 14
   Photographer: Marr, J.C.
   Scope and Content Note
Box 64:71  740-B-56 Border machine, owned by Mr. Craft, Oakdale, California for making narrow checks (15 ft.) for pasture irrigation. Equipped with wings for making 21 ft. checks. Side view with blades in working position. 1949 July 14
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:72  740-B-57 Border machine, owned by Mr. Craft, Oakdale, California for making narrow checks (15 ft.) for pasture irrigation. Equipped with wings for making 21 ft. checks. Side view with blades raised. 1949 July 14
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:73  740-B-58 Atlas scraper being used to smooth land. 1949 October
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:74  740-B-59 Miller or Rotary Scraper - 6 yd. bucket, powered by 22 H.P. tractor. Haussler Ranch. Davis, Calif. 1949 November
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:75  740-B-60 Miller Scraper for leveling land. University Farm demonstration. 1950 October
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:76  740-B-61 Turnapull scraper for leveling land owned by Heidrick Bros, Woodland, Calif. 1950 April
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:77  740-B-62 Land plane for smoothing land, University Farm. 1949 August
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:78  740-B-63 Land leveling equipment at work north of Sacramento, Calif. 1949 May
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:79  740-B-64 Land leveling equipment at work north of Sacramento, Calif. 1949 May
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:80  740-B-65 Land leveling equipment at work north of Sacramento, California 1949 May
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:81  740-B-66 Land leveling equipment at work north of Sacramento, Calif. 1949 May
   Photographer: Marr, J.C.
   Scope and Content Note
Box 64:82 740-B-67 Border strip drag for leveling individual border strips. University Farm 1950
September
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:83 740-B-68 Crawler tractor carrier scraper unit, on farm about 5 miles northwest of
Davis. 1953 April
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:84 740-B-70 A rubber tired 4-wheel tractor and carrier scraper unit. Taken near
Bakersfield. 1953 April
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:85 740-B-71 Crawler tractor and Hydraulically operated bottomless scraper. This picture
was taken on a farm adjacent to Highway 40 two miles west of Dixon. 1953 May
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:86 740-B-72 A crawler tractor drawn 80 foot land plane. This picture was taken near
Bakersfield. 1953 April
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:87 740-B-73 This is a rubber tired two wheel tractor and carrier scraper unit. Taken on a
farm 5 miles northwest of Davis. 1953 April
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:88 740-B-74 Buck Scraper 1954 January
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:89 740-B-74 Double mole board plow for leveling ridges. Taken at Wolfskill. 1954
November 15
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:90 740-B-75 Border disk on carrier for transporting showing a hook at left end for
attaching a gap closer. Taken at Wolfskill. 1954 November 15
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:91 740-B-76 Untitled undated
   Photographer:
   Scope and Content Note

Box 64:92 740-B-77 Corrugator for preparing flat land for pasture irrigation. Published Surface
Irrigation Calif Agriculture April 1957 Constructed by Henry Van Dorsten, Woodland
Calif. 1955
   Photographer: Marr, J.C.
   Scope and Content Note
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Box 64:93  740-C-1 Constructing lateral ditch in extension of system of I.W. Co. No. 4, near Brawley, Calif. 1906 October
   Photographer: Tait, C.E.
   Scope and Content Note

Box 64:94  740-C-2 Making laterals under the Modesto Turlock Canal, Calif. undated
   Photographer: 
   Scope and Content Note

Box 64:95  740-C-3 Four horse Fresno scraper. Excavating canal, Yolo County, Calif. 1907
   Photographer: M
   Scope and Content Note

Box 64:96  740-C-4 Making a Ditch with Excavator, Willows, Cal. 1916 March
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:97  740-C-5 Ditch Construction, Yolo County rice field near Plainfield, showing use of excavator. 1920
   Photographer: Adams, Frank
   Scope and Content Note

Box 64:98  740-C-6 Ditch machine built by Elmer C. Von Glahn from Killefer subsoiler and ditcher. Makes ditch 20" deep below ground level. Used for sprinkler machine. 1938 August 12
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 64:99  740-C-7 Ditcher seen at Mendota, 8/12/38. 1938 August 12
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 64:100 740-C-8 Large tractor-drawn ditcher - Owner, H. Von Dorsten. Woodland, Calif. 1949 November
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:101 740-C-9 Large Ditch plow opening ditch in By-pass. Owned by Von Dorsten, Woodland, Calif. 1949 August
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:102 740-C-10 Large Plow for opening ditches, owned by Heidrick Bros., Woodland, Calif. 1949 August
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:103 740-C-11 Ditch Plow. Taken On A Field About 2 Miles South Of Davis, California. 1950 Fall
   Photographer: Marr, J.C.
   Scope and Content Note
| Box 64:104 | 740-C-12 **Untitled undated**  
Photographer:  
Scope and Content Note |
| Box 64:105 | 740-C-13 **Tractor Ditches O.E.S. - I & D Investigation 761-A undated**  
Photographer:  
Scope and Content Note |
| Box 64:106 | 740-C-14 **Fresno scraper building farm lateral on farm of G.W. Horn, Modesto 1904**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 64:107 | 740-C-15 **Head ditch, alfalfa irrigation, Idaho 1958**  
Photographer: Marr, J.C.  
Scope and Content Note |
| Box 64:108 | 740-D-4 **Checks Fully Cultivated Ready for Seeding. 1919**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 64:109 | 740-D-5 **Rolling Checks After Seeding. 1919**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 64:110 | 740-D-6 **Discing Checks before seeding. 1919**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 64:111 | 740-D-7 **Making checks at grain irrigation palt, Modesto, Calif. undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 64:112 | 740-D-9 **Large checker, Phelan Ranch, Butte County California. 1916**  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:113 | 740-D-10 **Large checker, Phelan Ranch, Butte County, Cal. Requires two tractors to pull it. 1916**  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:114 | 740-D-11 **Checker for Making Rice Levees, Willows, Cal. 1916 September**  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:115 | 740-D-12 **Checker for Making Rice Levees, Willows, Cal. 1916 September**  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:116 | 740-D-13 **Checker for Making Levees, Willows, California. 1916 October**  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
Box 64:117 740-D-14 Checker for Making Rice Levees, Willows, Cal. 1916 April
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:118 740-D-14-a Preparing Land for Rice Irrigation, Willows, Cal. 1916 April
   Photographer: Robertson, Ralph D.
   Scope and Content Note
   Shows tractor and checker making levees.

Box 64:119 740-D-15 Preparing Land for Irrigation. Making Levees with Tractor and Checker, Willows, California. 1916 September
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:120 740-D-16 Ashley Checker, Biggs, California. 1916
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:121 740-D-17 Steel "V" Used in Making Ditches and Levees in Rice Field, Biggs, Cal. undated
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:122 740-D-18 Steel "V" Biggs, California. 1916 October
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:123 740-D-19 alfalfa field on Durham Ranch of Stanford University east of Butte Creek. 1917 December
   Photographer: Adams, Frank
   Scope and Content Note
   The main ditch appears in the shadow in the foreground. This field is apparently almost perfectly prepared and the picture is typical of the natural beauty of the tract.

Box 64:124 740-D-20 Newly prepared alfalfa borders on the University Farm at Davis, California. This and picture 659 show the best practice in getting land ready for alfalfa irrigation. undated
   Photographer:
   Scope and Content Note
   See also 740-E-32

Box 64:125 740-D-21 Land prepared for border irrigation of alfalfa undated
   Photographer:
   Scope and Content Note

Box 64:126 740-D-22 Newly prepared border for irrigation of alfalfa undated
   Photographer: Adams, Frank
   Scope and Content Note

Box 64:127 740-D-23 Constructing levee for rice irrigation. 1932
   Photographer: Edlefsen, Niels E.
   Scope and Content Note
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<td>64:128</td>
<td>740-D-24</td>
<td><em>alfalfa land prepared for strip checks. 1932</em></td>
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<td>Edlefsen, Niels E.</td>
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<td>64:129</td>
<td>740-D-25</td>
<td><em>alfalfa field prepared for contour flooding. 1932</em></td>
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<td>Edlefsen, Niels E.</td>
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<td>64:131</td>
<td>740-D-27</td>
<td><em>Newly prepared alfalfa checks. Klamath. 1929</em></td>
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<td>Adams, Frank</td>
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<td>64:132</td>
<td>740-D-28</td>
<td><em>Home-made machine for building alfalfa borders, 12 ft. wide. Built and used by Eakle Bros. Woodland, Calif. Appearance of borders after constructing with this machine is shown in picture 740-D-29. 1938 September 2</em></td>
<td></td>
<td>Christiansen, Jerald Emmet</td>
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<tr>
<td>64:133</td>
<td>740-D-29</td>
<td><em>Newly constructed alfalfa borders made with the machine shown in picture 700-D-28. Eakle Bros. Woodland, Calif. Sept. 2. Borders are finished with machine shown in picture 740-D-30. 1938 September 2</em></td>
<td></td>
<td>Christiansen, Jerald Emmet</td>
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<td>64:134</td>
<td>740-D-30</td>
<td><em>Levee used for trimming alfalfa borders after constructing with the machine shown in picture 740-D-28. The appearance of the levee after trimming with this levee is shown in picture 740-D-31. Eakel Bros. Sept. 2. 1938 September 2</em></td>
<td></td>
<td>Christiansen, Jerald Emmet</td>
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<td>64:136</td>
<td>740-D-32</td>
<td><em>Machine used for constructing borders for Ladino clover. Built and operated by Frank Wyatt and James Dunn (upper seat), Oakdale, California. This machine levels the strip cross-wise and constructs the borders in one operation at a cost of about $2.00 per acre. 2 left-hand views in negative file. Oct. 5, 1938. 1938 October 5</em></td>
<td></td>
<td>Christiansen, Jerald Emmet</td>
<td>Slide no. H-1284</td>
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<td>64:137</td>
<td>740-D-34</td>
<td><em>Ladino clover, Oakdale, Calif. Shows borders made by Wyatt and Dunn machine after field has been in clover several years. Sheep use borders for paths so that very little clover grows on top. 1938 October 5</em></td>
<td></td>
<td>Christiansen, Jerald Emmet</td>
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**Inventory of the Department of Irrigation Photographs**
Box 64:138  740-D-35  **Ladino clover, Oakdale, Calif., similar to 740-D-34. Outline boxes form head ditch to irrigate strips. 1938 October 5**

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Slide no. E-1286

Box 64:139  740-D-36  **Newly prepared land for alfalfa Frank. Hillside near pump No. 1, University Farm, Davis. Terraced checks for alfalfa. 1940 January 3**

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 64:140  740-D-37  **Border ridger, Heidrick Bros., County Road 97, Woodland. 1947 Spring**

Photographer: Brown, J.B.

Scope and Content Note

Ridger consists of 3/8" steel plate, 3' high and 10' long. Plate is supported between channel iron runners by stub axels. Cutting edges welded to both top and bottom edge of the steel plate. A tripping mechanism holds the plate in a vertical position. The operator, seated on the front corner of the machine, can release the trip and cause the plate to revolve about its axels. The mechanism catches and holds the plate after it has made a half revolution and again reaches a vertical position. The depth of cut can be regulated by a level adjustment. In operation, the machine is run at right angles to the border strips. As it moves forward, a uniform depth of cut is made across the entire strip between two ridges. The operator releases the trip when in line with previously set stakes that mark the place for the ridges. The blade then rolls over the gathered soil, locks into vertical position and is ready to start gathering soil for the next ridge. Usually a V-type drag or other implement is required for final shaping of the ridges. Legend by Aldert Molenaar who accompanied J.B. Brown when taking photos.

Box 64:141  740-D-38  **Heidrick Bros. Doodle-Bug (turn-over) Scraper for checking land for border irrigation. 1949 October**

Photographer: Marr, J.C.

Scope and Content Note

Box 64:142  740-D-39  **Plowing ridges made with Doodle-bug (turn-over scraper) preparatory to the final shaping of the levees for a border irrigated field. Heidrick Bros., Woodland equipment. 1949 October**

Photographer: Marr, J.C.

Scope and Content Note

Box 64:143  740-D-40  **Corrugation implement - Wt. 1 ton plus 3 ton water. Build entirely of steel. Used to corrugate contour-irrigated land having less than 0.2% slope & heavy soil - S.E. of Dixon, Calif. 1949 October**

Photographer: Marr, J.C.

Scope and Content Note

Similar pictures in negative folder.

Box 64:144  740-D-41  **Drop scraper for checking preparatory to making the levees for border irrigation. 1949 October**

Photographer: Marr, J.C.

Scope and Content Note
Box 64:145

740-D-42 *Patrol Highway Blade being used to shape the levees for Border irrigation. 1949 October*

Photographer: Marr, J.C.

Scope and Content Note

Box 64:146

740-D-43 *Tractor pushing a ditch filler and pulling a small "a". border shaper as a means to construct the levees for border irrigation. Prior to this operation the field had been checked. 1949 October*

Photographer: Marr, J.C.

Scope and Content Note

Box 64:147

740-D-44 *Levee Machine for constructing contour levees on rice fields. 1949 October*

Photographer: Marr, J.C.

Scope and Content Note

Manufactured by Yonkers and Johnson, Inc., Dos Palos, Calif.

Box 64:148

740-D-45 *Corrugating for a contour-corrugation system for irrigating pasture on flat land and heavy soil. 1949 November*

Photographer: Marr, J.C.

Scope and Content Note

Box 64:149

740-D-46 *Contour-corrugation system for irrigating pasture on flat land & heavy soil. 1949 November*

Photographer: Marr, J.C.

Scope and Content Note

Box 64:150

740-D-47 *Contours of a contour-corrugation system for irrigating pasture on flat land and heavy soil. 1949 November*

Photographer: Marr, J.C.

Scope and Content Note

Box 64:151

740-D-48 *Corrugated field, also to be contoured for pasture irrigation, corrugator in foreground. undated*

Photographer: Marr, J.C.

Scope and Content Note

Box 64:152

740-D-49 *Levees being built by Wiggins border machine. Note difference in size of levees on upper and lower side of check. 1949 November*

Photographer: Marr, J.C.

Scope and Content Note

Box 64:153

740-D-50 *Border Machine for constructing 28' checks for irrigating alfalfa. Will take out 0.5% side slope. Machine owned by Jim Wiggins, Dixon, Calif. 1949 November*

Photographer: Marr, J.C.

Scope and Content Note

Box 64:154

740-D-51 *Contour-corrugation system for irrigating pasture on flatland & heavy soil. 1949 November*

Photographer: Marr, J.C.

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| 64:155 | 740-D-52 | Heidrick Bros., Woodland, Calif. Border Shaper consisting of an “A” and a “V” in one farm - steel constructed 100 across per day could be covered with this machine. 1949 November  
  Photographer: Marr, J.C.  
  Scope and Content Note |
| 64:156 | 740-D-53 | Heidrick Bros. Border Shaper 1949 October  
  Photographer: Marr, J.C.  
  Scope and Content Note |
| 64:157 | 740-D-54 | Contour checks with corrugations for irrigation and surface draining pasture - By-pass - S.E. Dixon, Calif. 1950 August  
  Photographer: Marr, J.C.  
  Scope and Content Note |
| 64:158 | 740-D-55 | Corrugated contour checks for pasture irrigation - By-pass. 1950 August  
  Photographer: Marr, J.C.  
  Scope and Content Note |
| 64:159 | 740-D-56 | Contour check irrigated pasture S.E. of Dixon, Calif. 1950 August  
  Photographer: Marr, J.C.  
  Scope and Content Note |
| 64:160 | 740-D-57 | Border irrigated land furrowed for first irrigation, between Davis and Woodland. 1950 August  
  Photographer: Marr, J.C.  
  Scope and Content Note |
| 64:161 | 740-D-58 | Craft’s border machine, Oakdale, California. 1950 August  
  Photographer: Marr, J.C.  
  Scope and Content Note |
| 64:162 | 740-D-59 | Craft’s Border Machine, Oakdale, Calif. 1950 August  
  Photographer: Marr, J.C.  
  Scope and Content Note |
| 64:163 | 740-D-60 | Craft’s Border Machine, Oakdale, California 1950 August  
  Photographer: Marr, J.C.  
  Scope and Content Note |
| 64:164 | 740-D-61 | Border Machine. Oakdale, California 1950 August  
  Photographer: Marr, J.C.  
  Scope and Content Note |
| 64:165 | 740-D-62 | Heidrick Bros., Woodland, Calif., Doodle-Bug (turn-over scraper) for checking land for border irrigation. 1949 November  
  Photographer: Marr, J.C.  
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| 64:166 | 740-D-63 | Heidrick Bros., Woodland, Calif., Doodle-Bug (turn-over scraper) for checking land for border irrigation. 1949 November  
  Photographer: Marr, J.C.  
  Scope and Content Note |
| Box 64:167 | 740-D-64 Border Drag, University Farm 1950 August |
| Box 64:168 | 740-D-65 Border Machine owned by Mr. Craft, Oakdale, California. 1950 |
| Box 64:169 | 740-D-66 Border shaper, Heidrick Bros., Woodland, Calif. 1950 July |
| Box 64:170 | 740-D-67 Heidrick Bros. Flip Flop or Turnover scraper. Woodland, California 1949 August |
| Box 64:171 | 740-D-68 Levee for temporary border system. Crop is sesbania. 1950 August |
| Box 64:172 | 740-D-69 Border disk being used to throw up borders, Stanislaus County. 1951 June |
| Box 64:173 | 740-D-70 Border disk being used to throw up borders, Stanislaus County. 1951 June |
| Box 64:174 | 740-D-71 Border disk being used to throw up borders, Stanislaus County. 1951 June |
| Box 64:175 | 740-D-72 Border disk being used to throw up borders, Stanislaus County. 1951 June |
| Box 64:176 | 740-D-74 Making levees for border irrigation with equipment consisting of ridger in front of the tractor for cross checking dumps and a border shaper to the rear of the tractor. Farm adjacent to Davis to North. 1951 Summer |
| Box 64:177 | 740-D-75 Implement used for closing levee gaps used on University Farm at Wolfskill. 1952 March |
| Box 64:178 | 740-D-76 Implement for knocking down contour check levees on the University Farm at Wolfskill. 1952 March |
Box 64:179  740-D-77 Levee vee constructed of sheet metal and angle irons used for constructing contour check levees. Picture taken in the Winters area during March 1952. 1952 March
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:180  740-D-78 Border machine. Picture taken between Davis and Woodland, Calif. 1950 August
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:181  740-D-78 Two types of gap closers. Small one on left is an old type which gives relatively inferior performance. One on right has better capacity and has ball bearing movement. Its performance is reported to be very good. Taken at Sargents Mfg. Plant near Winters. 1954 November 15
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:182  740-E-1 A satisfactory orchard furrower, commonly seen in Southern California. undated
   Photographer: Adams, Frank
   Scope and Content Note

Box 64:183  740-E-2 Furrowing for Orchard Irrigation, Southern California. 1910
   Photographer: Tait, C.E.
   Scope and Content Note

Box 64:184  740-E-3 Burrowing Out Machine for Orchard Work, California. 1916 July 20
   Photographer:
   Scope and Content Note

Box 64:185  740-E-4 Furrowing Out Machine for Orchard Work, California. 1916 July 20
   Photographer:
   Scope and Content Note

Box 64:186  740-E-5 Furrowing Out Machine for Orchard Work, California. 1916 July 20
   Photographer:
   Scope and Content Note

Box 64:187  740-E-6 Furrowing Out Machine for Orchard Work, California. 1916 July 20
   Photographer:
   Scope and Content Note

Box 64:188  740-E-7 Furrowing Out Machine for Orchard Work, California. 1916 July 20
   Photographer:
   Scope and Content Note

Box 64:189  740-E-8 Preparing Muscat vineyard for irrigation with disc harrow. Clovis, California. 1916 June
   Photographer: Robertson, Ralph D.
   Scope and Content Note
740-E-9 (No neg.) V Crowder used in Making Ditch, Fresno County, Cal. Near Reedley.  
1916 June  
Photographer: Robertson, Ralph D.  
Scope and Content Note

740-E-10 Throwing up levees for basin irrigation with disc harrow. undated  
Photographer:  
Scope and Content Note  
Slide no. H-453

740-E-11 Making Levees in Orchard with Road Scraper, Merced near Planada, California. 1916 July 20  
Photographer: Robertson, Ralph D.  
Scope and Content Note

740-E-12 Home-Made V Crowder for Making Ditches in Santa Clara Valley California, prune Orchard. 1916 August  
Photographer: Robertson, Ralph D.  
Scope and Content Note

740-E-13 "V" crowder for making ditches, Fresno County. 1916 June  
Photographer: Robertson, Ralph D.  
Scope and Content Note

740-E-14 Orchard ridger, Fresno County, California. 1916 June  
Photographer: Robertson, Ralph D.  
Scope and Content Note

740-E-15 Wing Plow for Making Levees, Patterson, California. Note Heavy Soil. 1916 May  
Photographer: Robertson, Ralph D.  
Scope and Content Note

740-E-16 Triangular Harrow for Cultivating Strawberry Furrows, Lodi, Cal. 1915 September 14  
Photographer: Hutchins, Wells A.  
Scope and Content Note

740-E-17 Detail view of cultivators used on Arlington Fruit Company's Ranch, Riverside, Calif. undated  
Photographer:  
Scope and Content Note

740-E-18 Cultivator blades, Arlington Fruit Company's Ranch, Riverside, Calif. undated  
Photographer:  
Scope and Content Note

740-E-19 Furrowing young orange orchard near Claremont, Calif. Better practice to irrigate entire space between rows. undated  
Photographer: Tait, C.E.  
Scope and Content Note
Box 64:201  740-E-20 Furrow Irrigation. Destroying furrows by cultivation in orange orchard near Pomona, Calif. undated
   Photographer: Tait, C.E.
   Scope and Content Note

Box 64:202  740-E-21 Furrow irrigation. Destroying furrows by cultivation near Pomona, Calif. undated
   Photographer: Tait, C.E.
   Scope and Content Note

Box 64:203  740-E-22 Two-horse float in an orchard. undated
   Photographer: 
   Scope and Content Note

Box 64:204  740-E-23 Furrowing for irrigation in the Lefingwell Grove, near Whittier undated
   Photographer: 
   Scope and Content Note

Box 64:205  740-E-24 Orchard levees built by Parish ridger. 1925 May 31
   Photographer: Wadsworth, H.A.
   Scope and Content Note

Box 64:206  740-E-25 Parish ridger in operation. 1925 May 31
   Photographer: Wadsworth, H.A.
   Scope and Content Note

Box 64:207  740-E-26 Building orchard levees with a Parish ridger. 1925 May 31
   Photographer: Wadsworth, H.A.
   Scope and Content Note

Box 64:208  740-E-27 Making levees on tractor. Mountain View, California. 1922
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 64:209  740-E-28 Making levees on tractor. Mountain View, California. 1922 June 1
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 64:210  740-E-29 Making levees. Mountain View, California. 1922 June 1
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 64:211  740-E-30 Checking Land for Border Irrigation of Alfalfa on Durham State Colony, Fall of 1919. 1919
   Photographer: Adams, Frank
   Scope and Content Note
   In this work the teams work in one direction the full distance across the field under preparation, and returning, work the other way. A large number of teams worked when the picture was taken.
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<th>740-E-31 Wing plow used in making levees. Note stock required in heavy soil. Patterson, Calif. 1916</th>
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<td>Photographer: Robertson, Ralph</td>
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<td>Photographer: Adams, Frank</td>
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<td>740-E-33 Preparing levees for basin irrigation with V crowder. Apricot orchard, Mountain View Deciduous Fruit Station. undated</td>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<td>Box 64:215</td>
<td>740-E-40 Contour irrigation or orchard in Santa Clara Valley. 1934 May</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Scope and Content Note</td>
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<td>740-E-41 Victor Valley. Taken to show type of soil. 1917</td>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<td>Box 64:217</td>
<td>740-E-42 Blade type orchard ridger. University Farm. 1938 August 20</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Box 64:218</td>
<td>740-E-43 Furrows on contour grades varying from 1% at left to 5% at right. Irrigation class 120 trial to determine most desirable grade for contour furrows for this soil type, University Farm, Davis, Nov. 1938. Erosion in furrow was noticeable in all except the upper furrow. Contour grades of 1%, then 1 1/2, 2, 2 1/2, 3, 3 1/2, 4 and 5 % at right. 1938</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Box 64:219</td>
<td>740-E-44 (1) Machine for constructing broad furrows. Walnut orchard, Pomona. (2) Closeup of machine for constructing broad furrows. 1939 May</td>
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<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Scope and Content Note</td>
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<td>Box 64:220</td>
<td>740-E-45 Small steel levee shaper for constructing orchard contour levees. 1949 October</td>
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<td>Photographer: Marr, J.C.</td>
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<td>740-E-46 Orchard contour irrigation near Winters, Calif. 1949 October</td>
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<td>Photographer: Marr, J.C.</td>
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<td>Box 64:222</td>
<td>740-E-47 Untitled undated</td>
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<td>Box 64:223</td>
<td>740-E-48 Fresno scraper - building farm lateral on farm of G.W. Harn - Modesto, Calif. 1904 July</td>
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<tr>
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<td>Photographer: Adams</td>
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<td><strong>Scope and Content Note</strong></td>
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<td>Photographer:</td>
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<td>Photographer: Adams, Frank</td>
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<th>Box 64:226</th>
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<td>Photographer: Compton, O.C.</td>
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<td><strong>Scope and Content Note</strong></td>
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<th>Box 64:227</th>
<th>740-F-12 Subsoiling - Oakdale, California 1950 August</th>
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<tr>
<td></td>
<td>Photographer: Marr, J.C.</td>
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<td><strong>Scope and Content Note</strong></td>
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<th>Box 64:228</th>
<th>740-F-13 Subsoiling - Oakdale, California 1950 August</th>
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<td></td>
<td>Photographer: Marr, J.C.</td>
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<th>740-F-14 Subsoiling - Oakdale, California 1950 August</th>
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<td>Photographer: Marr, J.C.</td>
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<td><strong>Scope and Content Note</strong></td>
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<th>740-F-15 Subsoiling - Oakdale, California 1950 August</th>
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<td></td>
<td>Photographer: Marr, J.C.</td>
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<th>740-F-17 Untitled 1952</th>
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<td></td>
<td>Photographer: Marr, J.C.</td>
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<td>Photographer: Hendersen, D.</td>
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<th>740-Z-1 Land prepared for contour irrigation and later abandoned. Kern County Land Company. 1915</th>
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<td>Photographer: Beckett, Samuel H.</td>
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<td>Photographer: Marr, J.C.</td>
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750-A-1 **Overflow valve for alfalfa planted on terraces. Arlington, Calif. 1919 May**
Photographer: F.W.S.
Scope and Content Note

Box 64:236  
750-A-2 **Orchard valve connected to steel pressure line, Whittier, Calif. 1919 March**
Photographer: F.W.S.
Scope and Content Note

Box 64:237  
750-A-3 **Overflow valve, Arlington Heights, Arlington, Calif. 1919 May**
Photographer: F.W.S.
Scope and Content Note

Box 64:238  
Photographer: F.W.S.
Scope and Content Note

Box 64:239  
750-A-5 **Permanent alfalfa valve. Santa Paula, Calif. 1919 June**
Photographer: F.W.S.
Scope and Content Note

Box 64:240  
750-A-6 **Orchard distributing pipes. Raised to be out of cultivation. (2nd view) Mont Bello, Calif. 1919 March**
Photographer: F.W.S.
Scope and Content Note

Box 64:241  
750-A-7 **Orchard distributing valve of vit. clay pipe (old type) Gates of cast iron with rubber gaskets which press against plates with pressure. Highlands, Calif. 1919 March**
Photographer: F.W.S.
Scope and Content Note

Box 64:242  
750-A-8 **Orchard distributing pipes. Water runs from 1/4in. holes spaced 4 feet apart feeding furrow. (1st. view) Monte Bello, Calif. undated**
Photographer:
Scope and Content Note

Box 64:243  
750-A-9 **Large orchard valve. Not good except against curb or fence as it obstructs cultivation. Whittier, Calif. 1919 May**
Photographer: F.W.S.
Scope and Content Note

Box 64:244  
750-A-10 **Large orchard valve feeding two middles. Good when against curb otherwise in way of cultivation. Covina, Calif. 1919 March**
Photographer: F.W.S.
Scope and Content Note

Box 64:245  
750-A-11 **4 in G.I. portable pipe and slide gates. Santa Ana, Calif. 1919 March**
Photographer: F.W.S.
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<td>Photographer: F.W.S.</td>
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<td>Photographer: F.W.S.</td>
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<td>Box 64:248</td>
<td>750-A-14 Oval orchard valve. Santa Paula, Calif. 1919 April</td>
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<td>Photographer: F.W.S.</td>
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<td>750-A-15 Redbanks Orchard, Tulare County, California. 1916 May</td>
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<td>Photographer: Robertson, Ralph D.</td>
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<td>1400 acres of deciduous fruits. Water pumped from wells and raised to 273 feet on hillside. Orchard is disked but not plowed. Unique methods of running water down steep hillsides. Uniform moisture content maintained. Phil Baer, manager, says “Avoid a feast or famine.”</td>
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<td>Box 64:250</td>
<td>750-A-16 Common type distributing orchard valve of terra cotta pipe. Monte Bello. 1919 June</td>
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<td>Photographer: F.W.S.</td>
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<td>Box 64:251</td>
<td>750-A-17 Alfalfa Valve made to fit an orchard valve for irrigating inter crop of alfalfa in young orchard. Elsinore, Calif. 1919 March</td>
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<td>Photographer: F.W.S.</td>
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<td>Box 64:252</td>
<td>750-A-18 Orchard distributing pot. La Habra, Calif. 1919 April</td>
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<td>Photographer: F.W.S.</td>
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<td>Photographer: F.W.S.</td>
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<td>Box 64:254</td>
<td>750-A-20 Orchard distributing valves, Monte Bello, Calif. 1919 June</td>
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<td>750-A-22 Tapoons and spouts, walnut orchard, Santa Ana, Calif. 1919 March</td>
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<td>Photographer: F.W.S.</td>
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<td>Box 64:256</td>
<td>750-A-25 Portable pipe distributing device for orchards. Orange, Calif. 1919 May</td>
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<td>Photographer: F.W.S.</td>
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Box 64:257  
750-A-26 **Showing use of metal troughs in orchard irrigation. Troughs made of 10' corrugated roofing iron. 1903 August**  
Photographer: Stover, Arthur P.  
Scope and Content Note

Box 64:258  
750-A-27 **Use of metal troughs in orchard near Monrovia, Calif. Troughs rectangular to cross-section and made of No. 22 galvanized iron. 1903 August**  
Photographer: Stover, Arthur P.  
Scope and Content Note

Box 64:259  
750-A-28 **Canvas dam. 1903 August**  
Photographer: Adams, Frank  
Scope and Content Note

Box 64:260  
750-A-29 **Showing use of metal troughs in orchard irrigation. 1902 August**  
Photographer: Stover, Arthur P.  
Scope and Content Note

Box 64:261  
750-A-30 **Kellar-Thomason appliances for irrigation. 1912 May**  
Photographer: F.C.S.  
Scope and Content Note

Box 64:262  
750-A-35 **Overflow stands for contour irrigation. Note corrosion down hill due to rains. Bastanchury Ranch, La Habra, Calif. 1919 May**  
Photographer: F.W.S.  
Scope and Content Note

Box 64:263  
750-A-36 **Portable stand delivering water to galvanized iron surface pipe line, Santa Clara Valley. 1920 March**  
Photographer: Adams, Frank  
Scope and Content Note

Box 64:264  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note  
For distribution of water into furrows on each side of tree row. Purpose of device to enable furrows to be kept sufficient distance apart at the stand pipe so that the ridges between the furrows are not washed out, the flow being regulated by means of the spouts. Very small heads of water are under this system.

Box 64:265  
750-A-38 **Flow Delivery Stand, Sweet Water Valley, San Diego County. 1919 January**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note  
Overflow delivery stand used by Sweet Water Fruit Company in Sweet Water Valley, San Diego County. This type of stand was substituted for the ordinary overflow stand in which a partition wall was used or a stand in which a smaller diameter pipe was inserted into a larger pipe. The putting of the inner pipe on a slant as shown with a "V" shape notch in it allowed of better regulation. With a broader overflow crest the fluctuations were quite great as a small rise would mean a big discharge over the crest. The manager of the Company stated that this is the most efficient arrangement for small heads of water that he has ever seen.
Box 64:266 750-A-39 *Combination concrete and corrugated iron stand pipe. Irrigation system of the Salinas Land Company near Kings City, Salinas Valley. 1919 July*
   Photographer: Adams, Frank
   Scope and Content Note
   This type of stand pipe was considered both more economical and safer in the Salinas Valley winds.

Box 64:267 750-A-40 *Standpipe - Los Altos Water Company, Los Altos, California. 1921 August*
   Photographer: Adams, Frank
   Scope and Content Note

Box 64:268 750-A-41 *Vitrified clay pipe delivery stand. Marsh-Cruickshank lemon grove. Vista Irrigation District. 1926*
   Photographer: Beckett, Samuel H.
   Scope and Content Note

Box 64:269 750-A-42 *Furrow irrigation, showing faulty installation of hydrants on sandy soil. Peach orchard. San Fernando Valley. 1919*
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 64:270 750-A-43 *Furrow irrigation showing faulty installation of Hydrants on sandy soil. Peach orchard, San Fernando Valley. 1919*
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 64:271 750-A-44 *alfalfa field being irrigated from a 36-inch overarch type alfalfa valve. The location is northeast of Fresno. 1950 Summer*
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:272 750-A-45 *12-inch alfalfa valve. Location is the Armstrong Tract of the University Farm. 1951 Summer*
   Photographer: Marr, J.C.
   Scope and Content Note

Box 64:273 750-B-6 *Irrigation of plot No. 13 of the Muir Peach Orchard, Davis, California. 1918 May 18*
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   This irrigation given to ascertain the effect of irrigation on the quality and yield of the fruit when the length growth of the trees is slowing up. The object was to supply sufficient moisture in order that this wood growth might be prolonged.

Box 64:274 750-B-7 *Irrigation of vineyard, Block C, University Farm, Davis, May 18, 1918. 1918 May 18*
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Method of irrigation, "flooding" between strips and condition of vines at the time this irrigation is given is shown. In preparing the vine yard two furrows were plowed down the center of the rows making levees. These were not ridged.
Box 64:275  750-B-8  Irrigation of vineyard, Block C, 1918, May 18, 1918. Davis, Cal. 1918 May 18  
  Photographer: Veihmeyer, Frank J.  
  Scope and Content Note  
  Size of grapes (bird shot) is shown in this picture. Attention is called to vine in foreground  
  showing the large crop which is general over the vineyard.

Box 64:276  750-B-9  Slip-joint pipe. Irrigating alfalfa with portable steel stands and surface pipe,  
  near Chino, Calif. 1913 September  
  Photographer: Tait, C.E.  
  Scope and Content Note

Box 64:277  750-B-10  Slip-joint pipe. Irrigating alfalfa from pumping plant, Chino, Calif. 1913  
  September  
  Photographer: Tait, C.E.  
  Scope and Content Note

Box 64:278  750-B-11  Slip-joint pipe. Irrigation alfalfa from pumping plant, Chino, Calif. 1913  
  September  
  Photographer: Tait, C.E.  
  Scope and Content Note  
  Slide no. J889

Box 64:279  750-B-12  Slip-joint pipe. Irrigating alfalfa near Chino, Calif. 1913 August  
  Photographer: Tait, C.E.  
  Scope and Content Note

Box 64:280  750-B-13  Slip-joint pipe and cement stand used in irrigation of alfalfa, near Chino,  
  Calif. 10-inch stand, 7-inch pipe. 1903 August  
  Photographer: Stover, Arthur P.  
  Scope and Content Note

Box 64:281  750-B-14  Irrigating prune orchard 4 miles n. of Santa Rosa on farm of Harrison  
  Findlay. 1916  
  Photographer: Adams, Frank  
  Scope and Content Note

Box 64:282  750-B-15  Slip joint pipe. Joining sections. Alfalfa irrigation near Pomona, Cal 1903  
  August  
  Photographer: J.E.R.  
  Scope and Content Note

Box 64:283  750-B-16  Slip joint pipe. Alfalfa irrigation near Pomona, Calif. 1903 August  
  Photographer: J.E.R.  
  Scope and Content Note

Box 64:284  750-B-17  Flooding pear orchard in Santa Clara Valley undated  
  Photographer: Adams, Frank  
  Scope and Content Note

Box 64:285  750-B-18  Irrigation of date palms in Coachello Valley 1932 March 1  
  Photographer: Adams, Frank  
  Scope and Content Note
Box 64:286  750-B-19 Irrigation of date palms, Coachella Valley 1932 March 1
    Photographer: Adams, Frank
    Scope and Content Note

Box 64:287  750-B-20 Canvas hose. Cement stands for irrigation, showing use of metal outlet and canvas hose connections, Monrovia, Calif. 1903 August
    Photographer: Stover, Arthur P.
    Scope and Content Note

Box 64:288  750-B-21 Slip-joint pipe irrigation of alfalfa near Pomona, Calif. undated
    Photographer: Tait, C.E.
    Scope and Content Note

Box 64:289  750-B-22 Canvas hose. Junction of cement stand pipe and canvas hose. Alfalfa irrigation near Pomona, Calif. 1903 August
    Photographer: J.E.R.
    Scope and Content Note

Box 64:290  750-B-23 Canvas hose showing pipe connections. 1903 August
    Photographer: J.E.R.
    Scope and Content Note

Box 64:291  750-B-24 Irrigating alfalfa by flooding system by means of a tapoon, Modes to Irrigation District, Calif. 1904
    Photographer: J.E.R.
    Scope and Content Note

Box 64:292  750-B-25 Slip joint pipe distribution for alfalfa irrigation, near Pomona, Cal. 1903 August
    Photographer: J.E.R.
    Scope and Content Note

Box 64:293  750-B-26 Slip joint pipe. Alfalfa irrigation with 7” galvanized iron pipe near Pomona, Calif. Pumps supply water. 1903 August
    Photographer: J.E.R.
    Scope and Content Note

Box 64:294  750-B-27 Flooding system, Gibson’s, Calif. Flooding alfalfa on ranch of W.B.Gibson; water coming from Moor Ditch. 1900
    Photographer: Adams, Frank
    Scope and Content Note

Box 64:295  750-B-28 Flood irrigation - Vineyard undated
    Photographer: 
    Scope and Content Note

Box 64:296  750-B-29 Flooding pasture lands from overflow of San Joaquin River 1922
    Photographer: Adams, Frank
    Scope and Content Note
Box 64:297  750-B-30 *Flooding land by border method using head of 30-40 c.f.s. Kern County Land Company. 1915*
   Photographer: Beckett, Samuel H.
   Scope and Content Note

Box 64:298  750-B-31 *Young rice just coming through flooded basin. Sutter Co. on highway one mile West of Robbing. 1947 May 14*
   Photographer: Brown, J.B.
   Scope and Content Note

Box 64:299  750-B-32 *Young rice just coming through flooded basin. Sutter Co on highway 1947 May 14*
   Photographer: Brown, J.B.
   Scope and Content Note

Box 64:300  750-C-1 *Irrigating Strawberries Under Single Row System, From V-shaped Wooden Flume, Sunnyvale, California. 1915 October 18*
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   These strawberry plants were set out too close together in the rows and their foliage interfered. The rows were about 22 inches apart, from center to center, which made such narrow furrows that no cultivation could be carried on with a horse drawn harrow.

Box 64:301  750-C-2 *Irrigating Strawberries, Pajaro Valley, Cal. 1915 August 26*
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   In this section, the main distributing flumes are usually 12 inches in dimension, that is they are rectangular flumes constructed of three 1 inch x 12 inch boards nailed together with cleats at intervals of 2 to 8 or 10 feet across the top. The laterals which supply water directly to the irrigation furrows are usually 9 inches in dimension. The water is admitted to the furrows from the flume through circular holes about 3 inches in diameter. To plug these holes, wooden plugs which may be seen at the right of the picture are used, wrapped with cloth in order to insure tight fitting.

Box 64:302  750-C-3 *J.E. Reiter's Strawberry Field, Pajaro Valley, Cal. 1915 August 26*
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This shows the relative location of irrigation furrows and plant beds. This also shows the main 12-inch wooden flume for conveying the irrigation water from the pumping plant to the field. In the middle foreground is shown the suspension bridge with triangular truss for conveying the flume across a very deep and narrow gully. In the distance, on the left, the flume is seen crossing a natural depression in the field. Where the flume is thus close to the ground but must be kept above the ground, in order to maintain the necessary grade, simple wooden supports are used consisting usually of 2x4 pieces.

Box 64:303  750-C-4 *Irrigating Strawberries, Bowman, California. 1915 October 30*
   Photographer: Hutchins, Wells A.
   Scope and Content Note
Series 1. Index of images 1895-1959

Box 64:304

750-C-5 *Irrigating Strawberries, Matted-Row System, Sunnyvale, Cal. 1915 October 18*

Photographer: Hutchins, Wells A.

Scope and Content Note
The irrigation and cultural methods in this section are quite similar to those in Pajaro Valley.

Box 64:305

750-C-6 *Irrigating Strawberries from Rectangular Flume, Pajaro Valley, Cal. 1915 August 26*

Photographer: Hutchins, Wells A.

Scope and Content Note
Sometimes the water is admitted to the furrows through rectangular cuts in the flume as shown in this picture. The plugs for these cuts are the pieces that were sawed out, wrapped with cloth. To back up the water in the flume, short pieces of lath are used, being made slightly longer than the flume width in order to insure tight fitting, and placing one above another in the flume.

Box 64:306

750-C-7 *Irrigating Strawberries and Vines, Florin, California. 1915 September 18*

Photographer: Hutchins, Wells A.

Scope and Content Note
This shows one of the furrows leading from the distributing ditch shown in Picture No.

Box 64:307

750-C-8 (No neg.) *Young Strawberries under Double Matted-Row System, Lodi, Cal. 1915 September 14*

Photographer: Hutchins, Wells A.

Scope and Content Note

Box 64:308

750-C-9 (No neg.) *Irrigated Strawberries, Double Matted-Row System, Lodi, Cal. 1915 September 14*

Photographer: Hutchins, Wells A.

Scope and Content Note
The main distributary in this field, as shown in the picture, is an ordinary earth ditch. The cost of making these ditches is only $2 or $3 per acre, as opposed to about $20 per acre for a distribution system of rectangular flumes. However, in this case it is necessary to open and close the furrows as they are watered, which of course means an added labor expense in irrigating.

Box 64:309

750-C-10 *Irrigating Strawberries Under Matted-Row System, Pajaro Valley, California. 1915 August 26*

Photographer: Hutchins, Wells A.

Scope and Content Note
The water is turned into 3 to 8 or 9 of these furrows at one time. The head of water in the flume is about 90 to 200 or 300 gallons per minute and consequently from 10 to 30 gallons per minute are turned in each furrow. Water is applied to strawberries in this section about every 10 days or 2 weeks in the early spring and fall months, and every week at least during the summer.

Box 64:310

750-C-11 *Strawberries Under Matted-Row System, Pajaro Valley, Cal. 1915 August 26*

Photographer: Hutchins, Wells A.

Scope and Content Note
Where the matted-row system is used, the plants are originally set out in double rows on each bed between two irrigation furrows. Two or three runner plants are set from each original plant in order to fill up the intervening spaces. The result is a complete covering of the ridge by foliage.
Box 64:311 750-C-12 **Irrigating Strawberries, Sunnyvale, California. 1915 October 18**

*Photographer:* Hutchins, Wells A.

*Scope and Content Note*

The slope of this field was excessive and the water ran through the furrows entirely too fast. In order to back up the water bunches of cut runners and other refuse were placed at intervals, but they did not entirely serve their purpose. In Pictures No. is shown the water wasting from these furrows because of the excessive slope.

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Box 64:312 750-C-13 **Strawberry Field under Double Matted-Row System, Lodi, Cal. 1915 September 14**

*Photographer:* Hutchins, Wells A.

*Scope and Content Note*

The beds or ridges between irrigation furrows, are much broader here than under the ordinary matted-row system, and the furrows are much deeper. The plants are set out in double rows about 3-1/2 feet apart and enough runners are set from the plants in each row to make a matted row on each side of a ridge. Between the two matted rows a bare space about 18 inches in width is left. The result is parallel matted rows, about 3 feet apart, with furrows and bare spaces in alternate intervening spaces.

As a rule the furrows are not cultivated at all but are used only for irrigating. In the bare spaces on the ridges, however, cultivation is carried on with ordinary triangular cultivators and this space also affords a dry path for pickers to walk on while the field is being irrigated.

This type of furrow system is well adapted to a porous soil over-running a heavy stratum of soil or hardpan, which holds the water close to the surface of the ground and causes it to spread laterally throughout the entire ridge. It would not be adapted to a soil which is so heavy that lateral penetration of irrigation water is extremely limited, nor would it be adapted to a porous soil under which there is no heavier stratum, for in such a case the irrigation water would tend to go straight down instead of being disseminated throughout the ridges.

---

Box 64:313 750-C-14 **Irrigating Strawberries and Grape Vines, Florin, Cal. 1915 September 18**

*Photographer:* Hutchins, Wells A.

*Scope and Content Note*

On the left is shown the distributing ditch. The irrigating furrows lead to the right from this ditch.

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Box 64:314 750-C-15 **Irrigating Strawberries From V-Shaped Flume, Sunnyvale, Cal. 1915 October 18**

*Photographer:* Hutchins, Wells A.

*Scope and Content Note*

The water is released from the fume into the furrow through 3 1-inch auger holes placed close together near the bottom of the flume. For backing up the water sticks were laid against the cleats.
Box 64:315  750-C-16 Hillside Planting of Strawberries, Pajaro Valley, Cal. 1915 August 27
Photographer: Hutchins, Wells A.
Scope and Content Note
Where a strawberry field is laid out on a hillside in this section, the practice is to make the furrows, and consequently the plant beds, follow the contours of the land. These contours of course are determined by a survey. The slope of the furrows is the same as that on more nearly level land and water is applied from flumes in just the same way.
In preparing a hillside planting, it is necessary that the upper edges of the ridges, between furrows, should be well banked up for otherwise soil will be thrown down upon the plants when the furrows are cultivated. In addition to spoiling any berries that such soil might arrive on, it is also detrimental to have it wash into the crowns of the plants. This method of laying out strawberries on hillsides is universal in this vicinity.

Box 64:316  750-C-17 Young Loganberries, Under Double Furrow System, Moneta, Cal. 1916 January 7
Photographer: Hutchins, Wells A.
Scope and Content Note
In southern California most of the bush fruits are grown under this double furrow system. The elements of this system are a main ridge on which the plants are set out, then a furrow, then an intermediate ridge several inches lower than the main ridge, with a furrow on the other side of it and between it and the opposite main ridge. This intermediate ridge would be formed in any event when making the furrows with a plow after cultivating in the spring. Consequently it is used for a path for pickers to walk on while water is running in the furrows. As irrigation is more essential to the production of bush fruits in southern California than in Pajaro Valley or the Sebastopol country, an irrigation furrow is provided on each side of the plant row. In some sections of the south, however, one broad and shallow furrow is used between plant rows. The objection to this, however, is the increased danger of evaporation losses caused by spreading the water in a thin sheet. The double furrow system seems to be the most efficient under these conditions.

Box 64:317  750-C-18 Strawberry Field, Pajaro Valley, Cal. 1915 August 26
Photographer: Hutchins, Wells A.
Scope and Content Note
This view was taken at the ends of the furrows looking up towards the flume. It shows the earth dams placed at intervals to hold back the irrigation water and to permit it to soak into the ditch banks. This section of the field had just been irrigated and the water may be observed standing in the furrows.

Box 64:318  750-C-19 (No neg.) Irrigating Watermelons, Imperial Irrigation District, Cal. 1915 June 18
Photographer: Hutchins, Wells A.
Scope and Content Note
The furrows supplying water are about 1/4 mile in length. A very small head of water is turned into each furrow for a long time. In the foreground is the main supply furrow. At the head of each of the furrows is a lath tube or pipe used to distribute the water through a small dam.

Box 64:319  750-C-20 Irrigating Volunteer Cotton, Imperial Irrigation District, Cal. 1915 June 18
Photographer: Hutchins, Wells A.
Scope and Content Note
The water is supplied in furrows, one furrow between two rows of cotton plants, the furrows being, in some cases, upwards of 1/4 mile in length.
Box 64:320
750-C-21 **Irrigation Furrows in Peach Orchard near Newcastle, Placer County, California. undated**
- **Photographer:** Adams, Frank
- **Scope and Content Note:** This picture shows a common method of plowing irrigation furrows in some of the flatter orchards of the Sierra foothills. It also shows lack of cultivation during the irrigation season and the resulting weed growth both in the tree spaces and in the furrows.

Box 64:321
750-C-22 **Another Method of Making "Off-sets" in Irrigation Furrows in Sierra Foothills of California. undated**
- **Photographer:** Adams, Frank
- **Scope and Content Note:** Here the "off-set" is not large and is made directly above the trees rather than being carried completely around the trees as in Picture No.

Box 64:322
750-C-23 **Irrigated Apple Orchard, Hood River Irrigation District, Oregon. 1916 November 13**
- **Photographer:** Hutchins, Wells A.
- **Scope and Content Note:** This shows the main distribution furrow through the center of the picture and the lateral furrows emanating from it on each side. The curve in the furrow is caused by its being located along the top of a ridge, the country being very rolling.

Box 64:323
750-C-24 **Untitled undated**
- **Photographer:** Adams, Frank
- **Scope and Content Note:** See Picture No. 311

Box 64:324
750-C-25 **This, and Pictures Nos. 312 & 313 show water being led in the main furrow down a steep ridge by means of "zig-zaggin". At each point in the "zig-zag" water is led out in furrows to the trees. undated**
- **Photographer:** Adams, Frank
- **Scope and Content Note:**

Box 64:325
750-C-26 **Plum orchard, Tulare county, furrow irrigation 1915**
- **Photographer:** Robertson, Ralph
- **Scope and Content Note:**

Box 64:326
750-C-27 **Same Practice as Shown in Picture No. 303, namely the irrigation of orchards in the Sierra foothills with "off-set" furrows around the trees, Placer County, California. undated**
- **Photographer:** Adams, Frank
- **Scope and Content Note:**

Box 64:327
750-C-29 **Furrows in peach orchard, Delano sandy loam soil 1916**
- **Photographer:** Robertson, Ralph D.
- **Scope and Content Note:**

Box 64:328
750-C-30 **Untitled undated**
- **Photographer:** Adams, Frank
- **Scope and Content Note:** See Picture No. 311
| Box 64:329 | 750-C-31 **Looking up Slope of Blanchard Citrus Grove, near Santa Paula, Cal. undated**  
Photographer: Adams, Frank  
Scope and Content Note  
This grove is planted on the contours and water is supplied in contour furrows. Down the center of the picture is shown the central waste-way from the furrows and at the extreme right is shown a portion of the pumping plant. When the picture was taken the waste from a large number of furrows was passing down the ditch and was estimated to amount to only a very few inches. The waste-way is cement lined. When the picture was taken the grove was inter-planted with beans. |
| Box 64:330 | 750-C-33 **Peach Orchard, Dinuba, California. Single furrow. 1916 June**  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:331 | 750-C-34 **Peach orchard, Kerman, California. Furrows supplied from head ditch through galvanized iron pipe. undated**  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:332 | 750-C-35 **Metal surface pipe used to distribute water in furrows near Ventura. undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 64:333 | 750-C-36 **Metal surface pipe used for distribution of water in furrow irrigation. undated**  
Photographer:  
Scope and Content Note |
| Box 64:334 | 750-C-37 **Muscat Vineyard, Fresno County, California. Note earth check- dams. 1916 June**  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:335 | 750-C-38 **Furrows in Orange Grove, Porterville, California. 1916 May**  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:336 | 750-C-39 **Peaches and Grapes Interplanted, Tulare County, Cal. Single Furrow. 1916 May**  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:337 | 750-C-40 **Muscat Vineyard, Fresno County, California. Note lath tube in head ditch. 1916 July**  
Photographer: H.K.F.  
Scope and Content Note |
| Box 64:338 | 750-C-41 **Emperor Grapes, Exeter, California. Lath tubes in Head ditch. 1916 May**  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
<table>
<thead>
<tr>
<th>Box 64:339</th>
<th>750-C-42 Peach Orchard, Fresno County, California. 1916 July</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 64:340</th>
<th>750-C-43 Emperor Vineyard near Exeter, California. 1916 May</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 64:341</th>
<th>750-C-44 Thompson Seedless Grapes, Sanger, California. Sandy Loam Soil. 1916 June</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 64:342</th>
<th>750-C-45 Galvanized Iron Troughs Carrying Water from the Standpipes, to the Furrows, in the Lieb Walnut Grove, near Cupertino, Santa Clara Valley, California. 1914</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 64:343</th>
<th>750-C-46 Row of Automatic Stand Pipes on Contour Citrus Planting of Arlington Heights Fruit Company, above Gage Canal, near Riverside, Cal. 1914</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 64:344</th>
<th>750-C-47 Irrigating Grove with a Considerable Slope from Standpipes, in the Glendora Section, California. 1914</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

This picture illustrates the disadvantage of standpipes in irrigating steep slopes, over flumes. In the latter water can be taken directly into each furrow from the flume but where the land is as steep as shown in this picture, water coming from any standpipe has to be carried to the next row below, or at least such is a common practice. Note the unirrigated space near the shovel, due to heading the water in this way.

<table>
<thead>
<tr>
<th>Box 64:345</th>
<th>750-C-48 The First Attempt at Irrigating a Peach Orchard on the Walton farm, near Yuba City, California, by means of an Underground Pipe System. 1914</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

The land in this orchard was not prepared for irrigation before planting and the owner therefore finds some difficulty in spreading the water. The picture indicates how he has plowed two furrows and by turning the furrows and carrying water from one to the other, he gets a "check back" system which assists in getting the water to the soil where the furrows are of too great slope to irrigate without such a method.

<table>
<thead>
<tr>
<th>Box 64:346</th>
<th>750-C-49 The Contour Planting of the Arlington Heights Fruit Company, Back of Riverside, California, for which Standpipes were shown in the two preceding Pictures. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 64:347</th>
<th>750-C-50 Single Furrows in Muscat Vineyard, Dinuba, Cal. Furrows eight inches deep. 1916 May</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>
Box 64:348 750-C-51 Peach Orchard, Fresno County, California. 1916 June  
Photographer: Robertson, Ralph D.  
Scope and Content Note

Box 64:349 750-C-52 Furrows in Very Sandy Soil, Merced, California. 1916 July  
Photographer: Robertson, Ralph D.  
Scope and Content Note

Box 64:350 750-C-53 Cherry Orchard of Giant Oak Fruit Company, Farmersville California. Furrow irrigation. 1916 May  
Photographer: Robertson, Ralph D.  
Scope and Content Note

Box 64:351 750-C-54 Peach Orchard, Dinuba, California. 1916 June  
Photographer: Robertson, Ralph D.  
Scope and Content Note  
Furrows in sandy loam soil. Furrows eight inches deep.

Box 64:352 750-C-55 Muscat Vineyard with Single Furrow, Fresno, California. 1916 June  
Photographer: Robertson, Ralph D.  
Scope and Content Note  
Water admitted to furrow through box tube.

Box 64:353 750-C-56 Prune Orchard Showing Tomatoes as Intercrop on One Side of Ditch and Corn on Other Side of Ditch. Santa Clara Valley, Cal. 1916 August  
Photographer: Robertson, Ralph D.  
Scope and Content Note

Box 64:354 750-C-57 Zigzag Furrows, Lindsay Orange Orchard, California. 1916 May  
Photographer: Robertson, Ralph D.  
Scope and Content Note

Box 64:355 750-C-58 Irrigating Grapefruit Orchard in the Highgrove Section, back of Riverside, California. 1914  
Photographer: Adams, Frank  
Scope and Content Note

Box 64:356 750-C-59 Irrigating Citrus Orchard with Four Deep Furrows, near Covina, California. 1914  
Photographer: Adams, Frank  
Scope and Content Note

Box 64:357 750-C-60 Orange Orchard, Orland, California. Furrow System. 1916 September  
Photographer: Robertson, Ralph D.  
Scope and Content Note

Box 64:358 750-C-61 Preventing Waste at Lower Ends of Furrows in Citrus Orchard, near Covina, California. 1914  
Photographer: Adams, Frank  
Scope and Content Note  
Irrigation by used of check-backs and cross furrows. The owner of this orange grove reports that he does not lose a pint of water a year from run off at the lower ends of his furrows.
Box 64:359  750-C-63  Irrigating Oranges near Bonita District, Los Angeles County, California, with four deep furrows. 1914
  Photographer: Adams, Frank
  Scope and Content Note

Box 64:360  750-C-64  Irrigating a Young Apple Orchard, in Los Angeles County, California, from an Underground System. 1914
  Photographer: Adams, Frank
  Scope and Content Note

Box 64:361  750-C-65  Irrigating Citrus Grove near Riverside, California, With Four Shallow Furrows. 1914
  Photographer: Adams, Frank
  Scope and Content Note
  This is a common practice in the Riverside section and the picture indicates that it is not a very satisfactory one. Shallow furrows on this soil inevitably wet a considerable portion of the surface and cause baking and a considerable evaporation loss, between the time of irrigation and the time that the land is susceptible of cultivation. This picture also shows that in this plan of irrigation and without cross checks of "check backs" carrying water into the tree rows, a dry space throughout the tree rows is quite sure to be left.

Box 64:362  750-C-66  Irrigating a Peach Orchard on Gravelly Soil, by the Small Basin Method, near Sorosis, California. 1914
  Photographer: Adams, Frank
  Scope and Content Note
  The soil in this orchard is so gravelly that furrow irrigation would not be feasible. In this particular instance water is carried through the entire tier of furrows to the lower end and the trees are irrigated from the lower end backwards. While some orchardists begin at the upper end others, as in the case of this one, find they can prevent waste and get more efficient distribution if they follow the practice this orchardist does.

Box 64:363  750-C-67  Four Deep Furrows Ready for Irrigation, in a Southern California Citrus Grove. undated
  Photographer: Adams, Frank
  Scope and Content Note

Box 64:364  750-C-68  Irrigating a Young Prune Orchard with Two Deep Furrows, near Yuba City, California. undated
  Photographer: Adams, Frank
  Scope and Content Note

Box 64:365  750-C-69  Galvanized Iron Troughs Carrying Water from the Standpipes, to the Furrows, in the Lieb Walnut Grove, near Cupertino, Santa Clara Valley, California. 1914
  Photographer: Adams, Frank
  Scope and Content Note
  This view shows how the troughs are laid against the standpipes to be out of the way when not irrigating.

Box 64:366  750-C-70  Orange Grove, Lindsay, California. Zigzag Method. 1916 May
  Photographer: Robertson, Ralph D.
  Scope and Content Note
| Box 64:367 | 750-C-71 **System of Irrigating Young Almond Trees at Yuba City, California. 1916 August**  
| | Photographer: H.K.F.  
| | Scope and Content Note  
| | No water is run in the area lying between the trees as shown on the left. |
| Box 64:368 | 750-C-72 **Peach Orchard, Kerman, California. 1916 June**  
| | Photographer: Robertson, Ralph D.  
| | Scope and Content Note |
| Box 64:369 | 750-C-73 **Olive Orchard, Lindsay, California, Showing Zigzag Furrows. 1916 May**  
| | Photographer: Robertson, Ralph D.  
| | Scope and Content Note |
| Box 64:370 | 750-C-74 **Furrow irrigation in cherry orchard undated**  
| | Photographer: Adams, Frank  
| | Scope and Content Note |
| Box 64:371 | 750-C-75 **Irrigating Cherries in Furrows, Santa Clara Valley, California. 1916 August**  
| | Photographer: Robertson, Ralph D.  
| | Scope and Content Note |
| Box 64:372 | 750-C-76 **Muscat Vineyard, Fresno, California. Shows dams very well. 1916 June**  
| | Photographer: H.K.F.  
| | Scope and Content Note |
| Box 64:373 | 750-C-77 **A Chinese Irrigator Leading Water Down a Furrow in a Citrus Orchard at Fair Oaks, California. undated**  
| | Photographer: Adams, Frank  
| | Scope and Content Note  
| | This and similar orchards in this region receive no adequate smoothing of the land for irrigation before the trees are set out and as a consequence, as indicated in the picture, much labor is required to get the water distributed evenly over the land and this is sometimes almost impossible, even with a considerable amount of labor. |
| Box 64:374 | 750-C-78 **Furrows in Peach Orchard, Fresno County, California. Sandy Soil. 1916 June**  
| | Photographer: Robertson, Ralph D.  
| | Scope and Content Note |
| Box 64:375 | 750-C-79 **Muscat Vineyard, Clovis, California, prepared for irrigation. 1916 June**  
| | Photographer: Robertson, Ralph D.  
| | Scope and Content Note |
| Box 64:376 | 750-C-80 **Peach Orchard, Fresno County, California. 1916 June**  
| | Photographer: Robertson, Ralph D.  
| | Scope and Content Note  
| | Note lateral percolation in sandy soil. |
| Box 64:377 | 750-C-81 **Young muscat Vines, Selma, California. 1916 June 6**  
| | Photographer: Robertson, Ralph D.  
| | Scope and Content Note  
| | Irrigated in furrows. Soil is Fresno sandy loam. Two irrigations per season. |
Box 64:378 750-C-82 Redbanks Orchard, Tulare County, California. Furrow System. 1916 May
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 64:379 750-C-83 Checking Back to Wet the Dry Spaces in the Tree Rows, in a Southern California Citrus Grove. undated
Photographer: Adams, Frank
Scope and Content Note

Box 64:380 750-C-84 (No neg.) Galvanized Iron Troughs Carrying Water from the Standpipes to the Furrows, in the Lieb Walnut Grove, near Cupertino, Santa Clara Valley, California. 1914
Photographer: Adams, Frank
Scope and Content Note
This is the only instance of such an installation that has been noted. While it is fairly expensive, it is certainly very efficient. Additional views of these appliances are shown in Pictures Nos., showing how the troughs are laid against the standpipes to be out of the way when not irrigating.

Box 64:381 750-C-85 Galvanized Iron Troughs Carrying Water from the Standpipes to the Furrows, in the Lieb Walnut Grove, near Cupertino, Santa Clara Valley, California. 1914
Photographer: Adams, Frank
Scope and Content Note

Box 64:382 750-C-86 Irrigating Young Muscat Vines, Selma, California. Jap method. 1916 June
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 64:383 750-C-87 Loganberries Between Trees, Pajaro Valley, Cal. 1915 August 27
Photographer: W.A.A.
Scope and Content Note
These are irrigated with a furrow along each row, the furrow being made after the plants have been set out and thus destroyed by cultivation and renewed afterwards.

Box 64:384 750-C-88 Dewberries Between Trees, Pajaro Valley, Cal. 1915 August 27
Photographer: Hutchins, Wells A.
Scope and Content Note
Dewberries are irrigated in this section with single furrows.

Box 64:385 750-C-89 (No neg.) Furrow Irrigation of Peaches in the Sierra Foothills in Placer County, California. undated
Photographer: Adams, Frank
Scope and Content Note
The picture shows the “off-set” furrow around each tree. Under this method of irrigation, the irrigation furrows follow down the main slope rather than on contours at right angles to it.
| Box 64:386 | 750-C-90 **Irrigated Lady Washington Beans on Garfield Robson Farm in Penn Valley, Nevada County, 1917. 1917 August**  
Photographer: Adams, Frank  
Scope and Content Note  
Owing to the supposed slow lateral percolation of irrigation water, it was thought necessary by the irrigator to use two irrigation furrows between each two rows. |
| Box 64:387 | 750-C-91 **Irrigating Artichokes near Half Moon Bay, California. 1917 August**  
Photographer: Adams, Frank  
Scope and Content Note  
The soil here is heavy black loam. Water is applied during the summer every three or four weeks depending upon the dryness. It is run in furrows about one foot wide and 8 or 10 inches deep and as soon as the stream reaches the lower end of the furrows and the furrows are full irrigators put in dams every 15 or 20 feet beginning at the lower end and working back quickly toward the heads of the furrow in order to prevent flooding over the banks of the furrows. When this picture was taken three men were working damming up the two furrows shown. They worked so rapidly that before the camera could be set up and the picture taken, they had put in the three or four dams in each furrow nearest to the camera. |
| Box 64:388 | 750-C-92 **Strawberries under Single Row System, Galt, Cal. 1915 September 16**  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
Under this system the berry plants are set out in single rows on ridges between irrigation furrows. The distance from center to center of the ridges is about 2 feet and the plants are set out about 18 inches apart in the rows. In some instances, these plants are grown as "singles" but in other cases a runner plant is often made to take root between adjoining original plants. |
| Box 64:389 | 750-C-93 **Strawberries of the Gold Dollar Variety, under Matted-Row System, Pajaro Valley, Cal. 1915 August 27**  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This field belonged to James Hopkins. |
| Box 64:390 | 750-C-94 (No neg.) **Waste at the Lower End of Furrows in the Lieb Walnut Grove near Cupertino, Santa Clara Valley, California. undated**  
Photographer: O.W.I.  
Scope and Content Note |
| Box 64:391 | 750-C-95 **Furrow irrigation of orchards. undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 64:392 | 750-C-96 **Irrigating Strawberries, Auburn, California. 1915 October 30**  
Photographer: Hutchins, Wells A.  
Scope and Content Note |
Box 64:393  750-C-97 **Strawberries Between Grape Vines, Florin, Cal. 1915 September 18**

Photographer: Hutchins, Wells A.

Scope and Content Note

The system of growing strawberries as an intercrop with grape vines in this vicinity is similar to the ordinary double matted-row system described in Picture No. In this case, however, the furrows are farther apart and in alternate berry rows a row of grape vines is set out. The vines are 8 feet apart each way. The beds are run east and west in this section, and the grape vines are invariably set out along the north edge of the beds. The reason for this is that the berry plants on the south edge of the beds produce from 2 to 2-1/2 times the quantity of fruit produced by those along the north, probably because of the greater sun exposure of those on the south. The vines, however, do just as well in one situation as another. Consequently the south row of each bed is devoted entirely to strawberries and the vines are relegated to the north.

Box 64:394  750-C-98 **Irrigating Raspberries, Bowman, California. 1915 October 30**

Photographer: Hutchins, Wells A.

Scope and Content Note

The distributary in this case is a 2-inch galvanized iron pipe. The pipe sections are disconnected wherever desired and the water carried therefrom into a number of irrigation furrows. The furrow systems for irrigating bush fruits in this section are the same as those for irrigating strawberries, except that the furrows are, of course, farther apart.

Box 64:395  750-C-99 **Himalaya Blackberries, Pajaro Valley, Cal. 1915 August 27**

Photographer: Hutchins, Wells A.

Scope and Content Note

Blackberries, as well as other bush berries in this section, are almost invariably irrigated with single furrows where they are irrigated at all. This section has a greater amount of rainfall than have most sections in southern California, and consequently the necessity for irrigating bush berries is not so urgent as in the south.

Box 64:396  750-C-100 **Hillside Strawberry Planting, Auburn, Cal. 1915 October 30**

Photographer: Hutchins, Wells A.

Scope and Content Note

In this section the irrigating furrows run directly down the slope unless it is too steep, in which event they are carried down as great slopes laterally also, the furrows are placed along the upper side of the strawberry rows. The strawberries are grown almost entirely in single rows which are set out on the general level of the field before the furrows are made. Afterwards small furrows about 4 inches wide and 2 inches deep are made close to each plant row. Unless these furrows are cultivated down and renewed from time to time, erosion of the soil tends to increase their depth to about 6 inches. This system permits flat culture, which of course in not possible where the ridges and furrows are made permanent as in the furrow systems described in the San Joaquin Valley coast sections and southern California sections. As a rule the strawberry plants are grown as "singles". They are usually placed about 12 to 18 inches apart in the row and the rows are about 36 inches from center to center.
<table>
<thead>
<tr>
<th>Box 64:397</th>
<th>750-C-101 Truck Garden Irrigation at Chula Vista. Method of delivery of water to furrows at Chula Vista, San Diego County under Sweetwater System. 1918 January</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Veihmeyer, Frank J.</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Truck garden of S. Olsi approximately 13 acres under this wooden flume with a variety of vegetables. Duty of water in the neighborhood of 2 acre-feet per acre. Walter sold at following rate: $1 per month for 1st 400 cubic feet; $2.40 for next 1600 cubic feet and 2 cents per 100 cubic feet for remainder. Water metered at curb of property. 3/4 to 2 inch top for a 5-acre tract where the pressure exceeds 40 pounds per square inch is 1 1/4 inches diam. attached to a 1 1/2 inch distributing pipe 2-inch top for 1- acre tract with heads of 10 - 15 cu. ft. per run.</td>
</tr>
<tr>
<td>Box 64:398</td>
<td>750-C-102 Furrow irrigation of orchards undated</td>
</tr>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 64:399</td>
<td>750-C-103 Portion of Ontario Sewage Farm owned by E.A. Parkford. 1918 May 18</td>
</tr>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Picture shows young peach orchard being irrigated from the sewage. Stand pipes were equipped with the ordinary galvanized iron spout, but these clogged and proved themselves useless pouring water over the tops of the stand pipes as shown in the picture.</td>
</tr>
<tr>
<td>Box 64:400</td>
<td>750-C-104 Orchard with furrows undated</td>
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<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 64:401</td>
<td>750-C-107 Furrow irrigation on lands of Arlington Height Fruit Co., Riverside, Calif. undated</td>
</tr>
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<td>Photographer:</td>
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<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Slide no. I-385</td>
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<tr>
<td>Box 64:402</td>
<td>750-C-108 Irrigating sweet potatoes, Portuguese Colony, Merced County, Calif. 1903 August</td>
</tr>
<tr>
<td></td>
<td>Photographer: S.A.</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 64:403</td>
<td>750-C-109 Orange orchard irrigation, Southern Calif. undated</td>
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<td>Photographer:</td>
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<td></td>
<td>Scope and Content Note</td>
</tr>
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<td>Box 64:404</td>
<td>750-C-110 &quot;Checking back&quot; to avoid waste in irrigating, North Pomona, Calif. 1910</td>
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<td>Photographer: Tait, C.E.</td>
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<td>750-C-111 Irrigating Vineyards in Imperial Valley, California. 1914 August</td>
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<td>Photographer: Tait, C.E.</td>
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Scope and Content Note

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Scope and Content Note

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Photographer:  
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Scope and Content Note |
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Photographer: F.W.S.  
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   Scope and Content Note

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   Photographer: Christiansen, Jerald Emmet
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<td>near Santa Ana. 1932</td>
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<td>Photographer: Adams, Frank</td>
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<td>Photographer: Adams, Frank</td>
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<td>Photographer: Adams, Frank</td>
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750-C-216 **Upper end of furrows shown in 750-C-215 (Three furrow irrigation of oranges) 1932**  
Photographer: Adams, Frank  
Scope and Content Note

Box 64:479  
750-C- **Irrigating citrus with galvanized iron distributors, near Santa Ana. 1932 May**  
Photographer: Adams, Frank  
Scope and Content Note  
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Box 64:480  
750-C-217 **Furrow irrigation. Orchard Mesa Irrigation District, Colorado. 1929. 1929**  
Photographer: Adams, Frank  
Scope and Content Note

Box 64:481  
750-C-218 **Furrow irrigation of apples near Yakima, Washington. 1932 May**  
Photographer: Adams, Frank  
Scope and Content Note

Box 64:482  
750-C-219 **Furrow irrigation in orchard near Santa Ana, California 1932**  
Photographer: Adams, Frank  
Scope and Content Note

Box 64:483  
750-C-220 **Furrow irrigation of oranges from capped stands. Property S.E. of intersection of Victoria Ave., and Grace St., Arlington Heights, Calif. 1938 December 6**  
Photographer: Pillsbury, A.F.  
Scope and Content Note  
P-302 Negative at Citrus Experiment Station, Riverside. Used in Irrigation Exhibit, G.G.I. Exposition, San Francisco. Panel 3, upper right.

Box 64:484  
750-C-221 **Furrow irrigation, orange grove, southern California. 1938 December 7**  
Photographer: Pillsbury, A.F.  
Scope and Content Note  
P-309 negative at Citrus Experiment Station, Riverside

Box 64:485  
750-C-222 **Furrow irrigation of oranges from capped stands. Property S.E. of intersection of Victoria Ave. and Grace St., Arlington Heights, Calif. 1938 December 6**  
Photographer: Pillsbury, A.F.  
Scope and Content Note  
P-303 negative at Citrus Experiment Station, Riverside, Calif.

Box 64:486  
750-C-223 **Furrow irrigation in Field S-3, Citrus Experiment Station, Riverside. (Panel 3, picture3, Irrigation Exhibit, San Francisco Fair, 1939) 1938 November 8**  
Photographer: Pillsbury, A.F.  
Scope and Content Note

Box 64:487  
750-C-224 **Furrow irrigation, date grove, Coachella Valley. (Panel 1, lower left. Irrigation Exhibit, San Francisco Fair 1939) undated**  
Photographer: Pillsbury, A.F.  
Scope and Content Note
Box 64:488 750-C-225 (1) C.A.Taylor's broad furrows in walnut orchard at Pomona. (2) Constructing broad furrows. 1939 May
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 64:489 750-C-226 Cache Creek Flood Discharge at Yolo and near Lower Lake 1943 May
   Photographer: C.V.Givan
   Scope and Content Note

Box 64:490 750-C-227 Furrow irrigation - Santa Clara, Calif. undated
   Photographer:
   Scope and Content Note
   The orchard shown is of peaches and it is plain that the land was not prepared for irrigation before trees were planted while furrow irrigation is maintained, the practical result is almost equivalent to flooding. In this case, water is carried 500 to 1,000 feet from a single head ditch and if the slope had not been considerable, the distribution would have been exceedingly uneven.

Box 64:491 750-C-228 Untitled undated
   Photographer:
   Scope and Content Note

Box 64:492 750-D-1 Square Checking, Field of W.A. Scott, Dixon, California. 1916 March 9
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This type of checking system is not so wide spread as the border checking system at Dixon but in the heavier soils it is considered more efficient because it holds back the water and gives it a greater opportunity of penetrating the soil than does the longer border check.

Box 64:493 750-D-2 Irrigating alfalfa Frank, Sacramento Valley Irrigation Experimental Tract, Willows, California. 1915 August 17
   Photographer: Hutchins, Wells A.
   Scope and Content Note
   This experimental work on the Sacramento Valley Irrigation tract was carried on only in 1915 but was a part of water investigations in Sacramento Valley, Covering the years 1913-1915 inclusive.

Box 64:494 750-D-3 Check method, Peaches, Modesto, California. 1916 July
   Photographer: Robertson, Ralph D.
   Scope and Content Note
   On fairly level ground, from 2 to 6 trees are enclosed within a check.

Box 64:495 750-D-4 Peach Orchard, Reedley, California. 1916 June
   Photographer: Robertson, Ralph D.
   Scope and Content Note
   Note lath tube. Two to four trees per check on level land.

Box 64:496 750-D-5 Muscat vineyard, Clovis, California. Sandy soil, level. Two vines per check. 1916 June
   Photographer: Robertson, Ralph D.
   Scope and Content Note
| Box 64:497 | 750-D-6 | **Muscat Vineyard, Fresno County, California.** 1916 June  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:498 | 750-D-7 | **Irrigating a Peach Orchard on Gravelly Soil, by the Small Basin Method, Near Sorosis, California.** 1914  
Photographer: Adams, Frank  
Scope and Content Note  
Another view of basin irrigation as shown in Picture No. 535. |
| Box 64:499 | 750-D-8 | **Another Case of Basin Irrigation in Santa Clara Valley, California.** 1914  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 64:500 | 750-D-9 | **Flooding Peaches in Checks near Parlier, California. White Ash Soil.** 1916 June  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:501 | 750-D-10 | **Flooding one tree per check, Kerman, California.** 1916 June  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:502 | 750-D-11 | **Olive Orchard of A.J. MacDonald, at Corning, California.** 1916 August  
Photographer: H.K.F.  
Scope and Content Note  
Head ditch built in fill with tile outlets into checks. Small wooden check gates are located in the head ditch about 30 feet apart. One may be seen opposite the arrow while the tile outlet is shown in the foreground. The pump used was a No. 1. The checks are 24 feet x 150 feet. Head is divided between two or three checks. |
| Box 64:503 | 750-D-12 | **This and Picture No. 750-D-18 show the turning of a Ten Second-Foot Head into an alfalfa Check, in the Turlock Irrigation District, Cal.** 1914  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 64:504 | 750-D-13 | **Check Method, Peaches, Bowen Orchard, Modesto, Cal.** 1916 July  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:505 | 750-D-14 | **Fig Orchard, Fresno County, California.** 1916 June  
Photographer: Robertson, Ralph D.  
Scope and Content Note  
Four miles west of Sanger. Note arrangement of checks. |
| Box 64:506 | 750-D-15 | **Irrigating Nursery Stock, Madera, California.** 1916 July  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
| Box 64:507 | 750-D-16 | **Trees on Levees, Fresno County, California.** 1916 June  
Photographer: Robertson, Ralph D.  
Scope and Content Note |
Box 64:508  750-D-17 Flooding one tree in a check, Fresno County, Cal. (Parlier) 1916 June
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 64:509  750-D-18 Check Method of Irrigating Peaches, Bowen Orchard, Modesto, California. 1916 July
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 64:510  750-D-19 Flooding two trees per Check, Tulare County, California. 1916 May
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 64:511  750-D-20 Check Method of Irrigating Prunes in Santa Clara Valley, California. 1916 August
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 64:512  750-D-21 Flooding peaches in Checks, Selma, California. One tree per check. 1916 June
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 64:513  750-D-22 Trees on levees, Fresno County, California. 1916 June
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 64:514  750-D-23 Orange Orchard, Fresno County, Cal. Thermal Belt. 1916 June
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 64:515  750-D-24 Peach Orchard, Tulare County, California. Hunt Bros. Note concrete headstands. 1916 May
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 64:516  750-D-25 Border Checks, Peach Orchard, Tulare County, Cal. Hunt Bros. 1916 May
Photographer: Robertson, Ralph D.
Scope and Content Note

Box 64:517  750-D-26 How a Basin Irrigated Orchard Looks a Day or Two After the Water is Turned Off. undated
Photographer: Adams, Frank
Scope and Content Note
This picture well shows one of the great drawbacks to the basin method of applying water. The land is baked and cracked. A very considerable portion of the water applied is lost immediately after irrigation and before cultivation can be started.

Box 64:518  750-D-27 Basin Irrigation, near Yuba City, California. Hindu Irrigator at the Shovel. undated
Photographer: Adams, Frank
Scope and Content Note
Box 64:519 750-D-28 This and Picture No. 750-D-12 Show the Turning of a Ten Second-Foot Head into an alfalfa Check, in the Turlock Irrigation District, Cal. 1914
   Photographer: Adams, Frank
   Scope and Content Note

Box 64:520 750-D-29 A Peach Orchard near Yuba City, California, Shortly After Having Been Irrigated by the Basin Method. 1914
   Photographer: Adams, Frank
   Scope and Content Note
   The picture shows the wetting of the surface and also the weed growth caused by irrigation. The checks were not cultivated down, in this orchard, after applying the water.

Box 64:521 750-D-30 Flooding Peaches in Checks, Bowen Orchard, Modesto, Cal. 1916 July
   Photographer: Robertson, Ralph D.
   Scope and Content Note
   Two to four trees in sandy loam soil.

Box 64:522 750-D-31 Flooding Peaches in Checks, Modesto, California. 1916 July
   Photographer: Robertson, Ralph D.
   Scope and Content Note
   Note levees and location of trees thereto.

Box 64:523 750-D-32 Flooding in large checks, Reedley, California. 1916 May
   Photographer: Robertson, Ralph D.
   Scope and Content Note
   Level ground, sandy soil. Excessive use of water.

Box 64:524 750-D-33 Check Method Irrigating Peaches, Bowen Orchard, Modesto, California. 1916 July
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:525 750-D-34 Flooding 20 trees per check, Alta District, California. Note lath tube in foreground. 1916 June
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 64:526 750-D-35 Basin Irrigation of Peaches, near Yuba City, California. undated
   Photographer: Adams, Frank
   Scope and Content Note
   Water is brought to the basins in slip-joint pipe. The basin levees shown in the picture were made with a disc harrow.

Box 64:527 750-D-36 Flooding Two Trees per Check, Fresno County, Cal. 1916 June
   Photographer: Robertson, Ralph D.
   Scope and Content Note
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<tr>
<td>64:528</td>
<td>750-D-37</td>
<td><strong>Double Basins in a Sloping Gravelly Orchard in the Glendora Region, Los Angeles County, Cal. 1914</strong></td>
<td>Adams, Frank</td>
<td>The land in this grove was not prepared for irrigation to any considerable extent before the trees were set out. Probably if the orchard were to be set out again, the rows would be on contours in order to facilitate water distribution. As it is the grower finds this double checking system on the gravelly soil he has, to be about the best way of getting water over the orchard.</td>
</tr>
<tr>
<td>64:529</td>
<td>750-D-38</td>
<td><strong>Plot No. 5, Muir Peach orchard, Davis. Irrigation at time of blossoming.</strong> Sufficient water applied to raise upper six feet of soil to field capacity. 1918 April 2</td>
<td>F.G.V.</td>
<td></td>
</tr>
<tr>
<td>64:530</td>
<td>750-D-39 (No neg.)</td>
<td><strong>Mulched basin system of irrigation. 1919 February</strong></td>
<td>F.G.V.</td>
<td></td>
</tr>
<tr>
<td>64:531</td>
<td>750-D-40 (No neg.)</td>
<td><strong>Mulched basin system of irrigation used by Office of Biophysical Investigation of the B.P.I. at Chula Vista on the property. 1918 February</strong></td>
<td>F.G.V.</td>
<td></td>
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<tr>
<td>64:532</td>
<td>750-D-41</td>
<td><strong>Irrigating oranges with small basins, Riverside. 1915 July</strong></td>
<td>Tait, C.E.</td>
<td></td>
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<tr>
<td>64:533</td>
<td>750-D-42</td>
<td><strong>Basin system of irrigating apricots in the Santa Clara Valley, Calif. 1903 December</strong></td>
<td>F.A.</td>
<td></td>
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<tr>
<td>64:534</td>
<td>750-D-43</td>
<td><strong>Basin system of orchard irrigation on T.J. Baty's ranch, north side of Cache Creek above Nelson's bridge. Water coming from Cache Creek by means of pump. Calif. 1900</strong></td>
<td>Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>64:535</td>
<td>750-D-44</td>
<td><strong>Basin irrigation of apricot orchard (Santa Clara Valley) undated</strong></td>
<td>Adams, Frank</td>
<td></td>
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<tr>
<td>64:536</td>
<td>750-D-45</td>
<td><strong>Check system, spreading water, Tulare, Calif. 1904</strong></td>
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<tr>
<td>64:537</td>
<td>750-D-47</td>
<td><strong>Peach orchard, Parlier, flooding in checks, one tree per check. 1916</strong></td>
<td>Robertson, Ralph</td>
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| Box 64:538 | 750-D-48 **Check system for irrigating potatoes. 1903 August**  
Photographer: J.E.R.  
Scope and Content Note |
| Box 64:539 | 750-D-50 **Flooding by small checks, Tulare, Calif. 1904**  
Photographer:  
Scope and Content Note |
| Box 64:540 | 750-D-55 **Orchard Irrigation, California. undated**  
Photographer:  
Scope and Content Note |
| Box 64:541 | 750-D-56 **Basin irrigation, Calif. Pumping from Cache Creek on ranch of Robt. Morrison on Cache Creek above Nelson bridge. 1900**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 64:542 | 750-D-57 **Basin irrigation of olive trees, Fresno, Calif. undated**  
Photographer:  
Scope and Content Note |
| Box 64:543 | 750-D-60 **Flooding alfalfa with border method Imperial Water Co. #8. 1913 December**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 64:544 | 750-D-61 **Basin irrigation on Currier Tract near Pomona, Calif. Soil, adobe. undated**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 64:545 | 750-D-62 **Waste water from border irrigation, Imperial Valley, Calif. undated**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 64:546 | 750-D-63 (No neg.) **Irrigation on Richards Ranch, near Holtville, Imperial Valley, California. 1911**  
Photographer: Tait, C.E.  
Scope and Content Note |
| Box 64:547 | 750-D-64 **Irrigating alfalfa on the C.M. Ranch, Below the Line near Calexico, California. 1913**  
Photographer: Tait, C.E.  
Scope and Content Note  
Flood alfalfa in border checks, Imperial Valley, Calif. |
| Box 64:548 | 750-D-65 **Irrigating alfalfa near El Centro, California. 1911**  
Photographer: Tait, C.E.  
Scope and Content Note |
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<td>64:549</td>
<td>1895-1959</td>
<td>Inventory of the Department of Irrigation Photographs</td>
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<td>64:549</td>
<td>750-D-70</td>
<td><em>Winter irrigation of Prune orchard Santa Clara Valley. 1919 February 18</em></td>
<td>Veihmeyer, Frank J.</td>
<td>This is locally called basin method of irrigation when it is really check method of irrigation. Some difficulty would be encountered in irrigating orchards by furrows. Note unevenness in the far end of the check, no preparation of land having been made before the trees were planted.</td>
</tr>
<tr>
<td>64:551</td>
<td>750-D-72</td>
<td><em>Levees and check gate, Cadanassa Field near Madison, California. Rice Duty of Water Investigations in Sacramento Valley, 1917. 1917 May 1</em></td>
<td>Hutchins, Wells A.</td>
<td>This was the first irrigation, season of 1917.</td>
</tr>
<tr>
<td>64:552</td>
<td>750-D-73</td>
<td><em>Water Holding Capacity of Soils. 1920 August</em></td>
<td>Adams, Frank</td>
<td>Basin made in Dr. LeRoy Anderson's prune orchard, Santa Clara, Valley, August 1912. Basin was filled with water and samples taken immediately after water disappeared from surface. Experiment was repeated and data secured as to ultimate field capacity of this type of soil. Work done by W.W. McLaughlin.</td>
</tr>
<tr>
<td>64:553</td>
<td>750-D-74</td>
<td><em>Orchard irrigation Santa Clara Valley. 1920 March</em></td>
<td>Adams, Frank</td>
<td></td>
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<tr>
<td>64:554</td>
<td>750-D-75</td>
<td><em>Land in Santa Clara Valley prepared for winter irrigation, by a rough combination of check and flooding systems. 1918 December</em></td>
<td>Adams, Frank</td>
<td></td>
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<tr>
<td>64:555</td>
<td>750-D-76</td>
<td><em>Mulched basins, San Diego County. 1919 January</em></td>
<td>Veihmeyer, Frank J.</td>
<td></td>
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<tr>
<td>64:556</td>
<td>750-D-77</td>
<td><em>First flooding of a contour border check, Westside Irrigation District undated</em></td>
<td>Adams, Frank</td>
<td>Note excessive contour interval between this and the lower check; also extreme depth of water on levee in the right as compared with levee at the left.</td>
</tr>
<tr>
<td>64:557</td>
<td>750-D-78</td>
<td><em>Henley almond orchard, Davis, Calif. Check system of irrigation, (Print used for ms. &quot;Some suggestions concerning the irrigation of almond orchards.&quot; To be pub &quot;Almond Facts&quot; May 20, 1942 Veihmeyer, Frank J. and A.H. Hendrickson) 1918</em></td>
<td>Veihmeyer, Frank J.</td>
<td></td>
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</table>
| Box 64:558 | 750-D-79 **Irrigation of prunes in Santa Clara Valley 1920**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 64:559 | 750-D-81 **Irrigating prunes. Pollard orchard. Santa Clara Valley. Basin irrigation. 1920**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 64:560 | 750-D-82 **Basin irrigation, University Farm. A tier of trees being irrigated- shows several basins being filled and closed. The middle row of each plot contains the trees from which data are taken upon which to base the conclusions as to the effect of the differential irrigation treatments. These trees are guarded on all sides, but the adjacent guard trees receive the same amount of water as the measured tree. 1923 October 5**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 64:561 | 750-D-83 **Basin irrigation. University Farm. 1923 October 5**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 64:562 | 750-D-85 **Basin irrigation of apricots. Deciduous Fruit Experiment Station, Mountain View, Cal. 1921**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 64:563 | 750-D-86 **Cherry orchard irrigation. Furrow irrigation. undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 64:564 | 750-D-87 **Using short length of canvas hose attached to alfalfa gate - Delhi experimental tract circa 1922**  
Photographer:  
Scope and Content Note |
| Box 64:565 | 750-D-88 **Attaching canvas hose to alfalfa gate, Delhi Experimental tract. 1921 May 7**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 64:566 | 750-D-89 **Appliance to prevent settlement of sand in mulch basin irrigation. 1919 January**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note  
Picture shows appliances set in place in ditch. In order to operate successfully ditches must be well made with the bottom of the ditch on the natural surface of the ground and the sides formed by the basin dykes. |
| Box 64:567 | 750-D-90 **Appliance for prevention of sand settling in mulch basin irrigation 1919 January**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note  
Shows water being turned into basin. Canvas pipe can be thrown into basin on the left without changing the position of the plate. In this picture second appliance has been set in position ready for irrigating the basin above. |
Box 64:568 750-D-91 Apparatus designed by Frank M. Eaton of Chula Vista to prevent the deposit of sand when the mulch basin system of irrigation is used. 1919 January

Photographer: Veihmeyer, Frank J.

Scope and Content Note
Slide no. 758. A plate several inches larger than the irrigation furrow and of approximately the same shape is cut from heavy sheet metal. This plate is reinforced along the upper edge with a strip of angle iron. A 6-inch hole is cut through the center and about 3 inches from the bottom of the plate. Into this hole one end of a canvas tube is secured by means of a metal rim bolted in place over an apron sewed to the end of the tube.

Box 64:569 750-D-92 Delivering water from alfalfa gate to checks through canvas hose. Delhi Irrigation Experimental tract. 1921 May 7

Photographer: Adams, Frank

Scope and Content Note

Box 64:570 750-D-93 Irrigating alfalfa - from alfalfa gate - Delhi. undated

Photographer: Adams, Frank

Scope and Content Note

Box 64:571 750-D-94 Irrigating alfalfa by border check method. Turlock Irrigation District 1929 August

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 64:572 750-D-95 Basin irrigation of apricots in the Santa Clara Valley. Supply ditches in alternate rows. undated

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 64:573 750-D-96 Contour checks in orchard peach. Sutter Basin, Calif. 1932

Photographer: Edlefsen, Niels E.

Scope and Content Note

Box 64:574 750-D-97 Basin irrigation of prunes, Santa Clara Valley. 1934

Photographer: Adams, Frank

Scope and Content Note
This is a duplicate of picture mounted and filed. Used in Irrigation Development Exhibit, Golden Gate Exposition, S.E., 1939. Panel #3, lower center.

Box 64:575 750-D-98 Checking of soils in orchard basins - Davis 1938 August 19

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 64:576 750-D-98 Hilg. 2(6):125-291. Jan., 1927. Some factors affecting the irrigation requirements of deciduous orchards. By Veihmeyer, Frank J. Fig. 3. Irrigation of orchard No. 4, Nov. 1, 1920. The same amount of water is applied in basins around each tree, insuring a uniform distribution of moisture. (See: 116.5.6 Mss., title above, for print) 1920 November 1

Photographer: Veihmeyer, Frank J.

Scope and Content Note
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| 64:577 | 750-D-99 (No neg.) **Irrigating by border strip method. 1938 April**  
Photographer: From Reclamation Era v.28(4):70  
Scope and Content Note  
Slide no. I-1257 |
| 64:578 | 750-D-100 **Irrigating prunes in single basins, Santa Clara Valley investigations by C.V. Givan. Approx. 1934**  
Photographer: Givan, C.V.  
Scope and Content Note |
| 64:579 | 750-D-101 **Basin irrigation of walnuts. Lowest basin in tier filling. Davis farm. 1947 May 14**  
Photographer: Brown, J.B.  
Scope and Content Note |
| 64:580 | 750-D-102 **Basin irrigation of prunes. University Farm, Davis. 1947 May 14**  
Photographer: Brown, J.B.  
Scope and Content Note |
| 64:581 | 750-D-103 **Basin irrigation of walnuts, University Farm, Davis. 1947 May 15**  
Photographer: Brown, J.B.  
Scope and Content Note |
| 64:582 | 750-D-104 **Border irrigation, Jerry Fielder ranch, Dixon, California 1951 May 15**  
Photographer: Marr, J.C.  
Scope and Content Note |
| 64:583 | 750-D-105 **Border irrigation, Jerry Fielder ranch, Dixon, California 1951 May 15**  
Photographer: Marr, J.C.  
Scope and Content Note |
| 64:584 | 750-D-106 **Border irrigation, Jerry Fielder ranch, Dixon, California 1951 May 15**  
Photographer: Marr, J.C.  
Scope and Content Note |
| 64:585 | 750-D-107 **Border irrigation, Jerry Fielder ranch, Dixon, California 1951 May 15**  
Photographer: Marr, J.C.  
Scope and Content Note |
| 64:586 | 750-D-108 **Border irrigation, Jerry Fielder ranch, Dixon, California 1951 May 15**  
Photographer: Marr, J.C.  
Scope and Content Note |
| 64:587 | 750-D-109 **Border Irrigation, Jerry Fielder Ranch, Dixon, California 1951 May 15**  
Photographer: Marr, J.C.  
Scope and Content Note |
| 64:588 | 750-D-111 **Border irrigation, Jerry Fielder ranch, Dixon, California 1951 May 15**  
Photographer: Marr, J.C.  
Scope and Content Note |
Box 64:589  750-D-112 Border irrigation, Hunze ranch, West of Dixon 1950 September
Photographer: Marr, J.C.
Scope and Content Note

Box 64:590  750-D-113 Border irrigation, Hunze ranch, West of Dixon 1950 September
Photographer: Marr, J.C.
Scope and Content Note

Box 64:591  750-D-114 Check levee near Keranz - Australia 1907 December 19
Photographer:
Scope and Content Note

Box 64:592  750-D-115 Woodland, Calif. Flooding alfalfa in Borders 1900
Photographer: Adams, Frank
Scope and Content Note

Box 64:593  750-D-116 Flooding Black Burn Tract, Fresno, Calif. 1907 June
Photographer:
Scope and Content Note

Box 65:1  796-D-c-1 Plots in the erosion experiment, Northwest Erosion Experiment Station, near Pullman, Washington. 1932
Photographer: Adams, Frank
Scope and Content Note

Photographer: Johnston, C.N.
Scope and Content Note

Box 65:3  796-D-c-3 Erosion and runoff studies on burned and unburned experimental plots, Shasta co. 1936 November 20 - 1936 November 21
Photographer: Johnston, C.N.
Scope and Content Note

Box 65:4  796-D-c-4 Erosion and runoff studies on burned and unburned experimental plots, Shasta county. 1936 December 8
Photographer: Johnston, C.N.
Scope and Content Note

Box 65:5  796-D-c-5 Shasta county. Plot 2. Runoff and erosion, burned and unburned areas exp. Silt trap and weir for measuring runoff and erosion on burned and unburned. 1936 December 14
Photographer: Veihmeyer, Frank J.
Scope and Content Note
796-D-c-6 Erosion and runoff studies on burned and unburned experimental plots, Shasta County. 1936 December 8

Scope and Content Note

796-D-c-7 Erosion and runoff studies on burned and unburned experimental plots, Shasta county. 1936 December 8

Scope and Content Note

796-D-c-8 Runoff and erosion studies on burned and unburned areas, Shasta county. Plot 1. Recording rain gauge. 1936 December 14

Scope and Content Note

796-D-c-9 Runoff and erosion studies on burned and unburned areas, Shasta county. Plot 2. Showing method of sampling silt content from over-pour from weir. 1936 December 13

Scope and Content Note

796-D-c-10 Runoff and erosion studies on burned and unburned areas, Shasta county. Plot 2. 1936 December 14

Scope and Content Note

796-D-c-11 Runoff and erosion studies on burned and unburned areas, Shasta county. Plot 3. Showing plots outlined with boards and with runoff and erosion measuring devices installed. 1936 December 14

Scope and Content Note

796-D-c-12 Runoff and erosion studies on burned and unburned areas, Shasta county. Plot 3. Showing detail of surface of burned plot. 1936 December 14

Scope and Content Note

796-D-c-13 Runoff and erosion studies on burned and unburned areas, Shasta county. Plot 3. Showing detail of surface burned and unburned plots. 1936 December 14

Scope and Content Note


Scope and Content Note
| Box 65:15 | 796-D-c-15 Burned and unburned experiments, Shasta county. 1937 January 24 |
| Box 65:16 | 796-D-c-16 Burned and unburned experiment, Shasta county. 1937 January 24 |
| Box 65:17 | 796-D-c-17 Burned and unburned experiment, Shasta county. 1937 January 24 |
| Box 65:18 | 796-D-c-18 Burned area, Plot 1. White spots caused by deer licking ground. Plot 1 contained from 12 to 15 of such spots on this date. 1937 May 15 |
| Box 65:19 | 796-D-c-19 Range management plots, Shasta Co. Attempt to show growth on burned strips which was more noticeable than on the unburned strips, but the photograph does not bring this out clearly. Plot 3 burned area. 1937 March 14 |
| Box 65:20 | 796-D-c-20 Plot 4 B from South edge. Recovery of grass and other small plants. Shasta County. 1938 January 23 |
| Box 65:21 | 796-D-c-21 Plot 2B. Recovery of grass and other small plants. Shasta County. 1938 January 23 |
| Box 65:22 | 796-D-c-22 Plot 1, burned, Sept. 1938. Range Management Experiment, Shasta Co. 1938 September |
| Box 65:23 | 796-D-c-23 Range Management Experiments, Shasta County. 1938 September |
| Box 65:24 | 796-D-c-24 Range Management Experiments, Shasta Co. Plot 3, burned 1938 September |
| Box 65:25 | 796-D-c-25 Range Management Experiment, Shasta Co. Plot 4, burned 1938 September |
| Box 65:26 | 796-D-c-26 Plot 1 Range Management Experiment, Shasta County. View N.W. across burned area. Strip at right-hand side fertilized by Dr. Madsen. 1938 May 21 |
| Box 65:27 | 796-D-c-27 Range Management Experiment, Plot 2, Shasta County. View N.W. across burned area. Shows grass recovery. 1938 May 21 |
| Box 65:28 | 796-D-c-28 Range Management Experiment, Shasta County, Plot 3, burned. Looking along bottom edge of plot northward, shows grass. 1938 May 21 |
| Box 65:29 | 796-D-c-29 Range Management Experiment, Shasta County. Plot 3, burned. View N.W. across plot. Shows grass. 1938 May 21 |
| Box 65:30 | 796-D-c-30A, B Range Plots, Shasta county. 1939 May 1 |
| Box 65:31 | 796-D-c-31B Range plots, Shasta county. 1939 May 1 |
| Box 65:32 | 796-D-c-32 (1) San Dimas Forest and Range Experiment Station lysimeter installation. (2) Small lined silt detention reservoir and measuring station for measuring runoff and silt loss from watersheds. 1939 May |
| Box 65:33 | 796-D-c-33 (1)(2) General views of San Dimas Forest and Range Experiment Station. 1939 May |
| Box 65:34 | 796-D-c-34 Ono Range Experiment. A area. Burned Sept. 1938. Looking south toward Plot 4 which is cleared space in the background. 1939 April 23 |
| Box 65:35 | 796-D-c-35 Ono Range Experiment. In A area, showing growth of grasses following removal of competition of chamise. 1939 April 23  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:36 | 796-D-c-36 Ono Range Experiment. In A area burned Sept. 1938. East slope of Duncan Creek. Sprouts from burned chamise and soap weed. 1939 April 23  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:37 | 796-D-c-37 Ono Range Experiment. Burned part of Plot 2. Grasses and soap weed. Note absence of chamise. 1939 April 23  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:39 | 796-D-c-39 Ono Range Experiment. In area A. Burned Sept. 1938. B.A. Madson standing in growth of wild oats which came in following burn. 1939 April 23  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:40 | 796-D-c-40 Ono Range Experiments. Looking north from Plot 4, Area A burned in Sept. 1938 on left. Area B burned in 1933 on right. 1939 April 23  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:41 | 796-D-c-41 Ono Range Experiment. In area A. Burned Sept. 1938. Looking north from open grassy area near top of trail. 1939 April 23  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:42 | 796-D-c-42 Ono Range Experiment. Area A burned Sept. 1938. 1939 April 23  
Photographer: 1939 April 23  
Scope and Content Note |
| Box 65:43 | 796-D-c-43 Ono Range Experiments. A area burned 1938, September on left, and B area burned 1933 on right. North fence of experimental area is along ridge. Taken from near top of trial area A, looking north. 1939 April 23  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:44 | 796-D-c-44 Ono Range Experiment. In area burned Sept. 1938. A area. Looking north from open grassy area near top of trail. 1939 April 23  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:45 | 796-D-c-45 Ono Range Experiments. Plot 4. Looking south. 1939 April 23  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
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<tr>
<td>65:46</td>
<td><strong>Ono Range Experiment. Plot 3 -- taken from Plot 1. 1939 April 23</strong></td>
<td>Veihmeyer, Frank J.</td>
<td>1939 April 23</td>
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<td>65:47</td>
<td><strong>San Dimas Experimental Forest. 1938 December 18</strong></td>
<td>Veihmeyer, Frank J.</td>
<td>1938 December 18</td>
<td>a. One of the Fern canyon watersheds b. One of the Fern triple watersheds. (No. 2?) c. Compete burn. One of Fern triple watersheds. d. Showing burned area. Fern triple watershed (No. 2?)</td>
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<td>65:49</td>
<td><strong>San Dimas Experimental Forest 1938 December 20</strong></td>
<td>Veihmeyer, Frank J.</td>
<td>1938 December 20</td>
<td>(a) River of white coarse sand and rocks. (b) removing debris following slide on highway, San Dimas Experimental Forest. M. P. O'Brien, C. V. Givan, Charles Kraebel.</td>
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<td>65:51</td>
<td><strong>Intermountain Forest and Range Experiment Station, Wasatch National Forest. 1939 July 28</strong></td>
<td>Veihmeyer, Frank J.</td>
<td>1939 July 28</td>
<td>a. Terraces for erosion control. b. Headwaters of Linn Creek near Francis Mountain. c. View from top of Francis Mt. showing terraces after erosion control. d. Looking from top of Francis Mt. into Salt Lake valley.</td>
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<td>65:53</td>
<td><strong>Range studies. Cold Fork plots, Tehama county/ Pettijohn ranch, 30.2 mi. west of Red Bluff. Chamise with a little manzanita. Type of soil not known. 1940 September 14</strong></td>
<td>F.J.Veighmeyer</td>
<td>1940 September 14</td>
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Box 65:54  796-D-c-54 Range studies. Cold Fork plots, Tehama county/Pettijohn ranch, 30.2 mi. west of Red Bluff. First set of samples on bare plot just after clearing. Paul R. Day. 1940 September 25
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 65:58  796-D-c-58 Range studies. Plum Creek manzanita plots, Tehama county. Volcanic soil. Manzanita thicket. Mr. Apple’s ranch. 1940 September 14
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 65:59  796-D-c-59 Range studies. Plum Creek Ceanothus plots, Tehama county. On hill on which Inskip Lookout Station is located. “Gleason” soil, almost Aiken but lighter. Manzanita and Ceanothus cuneatus. 1940 September 14
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 65:60  796-D-c-60 Range studies. Holland plots, Shasta county, 3.1 miles east of Igo. Holland soil. Manzanita, oak, and pine. Oak in upper left corner is on southwest corner of brushed area. 1940 September 15
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 65:61  796-D-c-61 Range studies. Oregon oak Aiken plots, east of Reddings, Shasta county. 1940 September 15
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 65:62  796-D-c-62 Range studies. Vail Ranch, Riverside county, Calif. 1939 April 4
   Photographer: Thom Jr., Neil
   Scope and Content Note
   a. Area to be burned. Granite formation. b. Looking over 1938 burn from top of Mesa. c. 1935 burn on Vail ranch.

Box 65:63  796-D-c-63 Range studies. Vail Ranch, Riversides county, Calif. 1939 April 14
   Photographer: Thom Jr., Neil
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<td>a. Lysimeter plot. b. Lysimeter plot. Taken from top of ridge at road junction.</td>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<th>796-D-c-69 Range Management studies. Shasta and Tehama counties. 1940 November 16</th>
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<td>Photographer: Madson, B.A., Veihmeyer, Frank J.</td>
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<td>Photographer: Madson, B.A., Veihmeyer, Frank J.</td>
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<td>Photographer: Madson, B.A., Veihmeyer, Frank J.</td>
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<td>Photographer: Veihmeyer, Frank J.</td>
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Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:74  796-D-c-75  Plot No. 3 Ono April 4, 1941 Range Studies 1941 April 4
Photographer: Veihmeyer, Frank J.
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Box 65:75  796-D-c-76  Range Studies Plot No. 4 Ono April 4, 1941 1941 April 4
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Box 65:76  796-D-c-77  Range Studies Corning Plot East of Redding April 4, 1941 1941 April 4
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Box 65:77  796-D-c-78  Oregon Oak Plot April 4, 1941 Range Studies Neal Derrick, Frank Viets, Dean Hutchison, Dean Ryerson 1941 April 4
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Scope and Content Note

Box 65:78  796-D-c-79  Range Studies Redding Plot East of Redding April 4, 1941 G. Hart, B. Madson, Lester Berry, Neal Derrick, Dean Hutchison 1941 April 4
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:79  796-D-c-80  Inskip Plot East of Red Bluff April 5, 1941 Range Studies Dean Hutchison, B.A. Madson, K.A. Ryerson, Frank Viets 1941 April 5
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:80  796-D-c-81  Range Studies Gleason Ceanothus Plot East of Red Bluff April 5, 1941 1941 April 5
Photographer: Veihmeyer, Frank J.
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Box 65:81  796-D-c-82  Manzanita Gleason Plot East of Red Bluff April 4, 1941 Range Studies 1941 April 5
Photographer: Veihmeyer, Frank J.
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Box 65:82  796-D-c-83  Inskip Plot June 24, 1941 Range Studies 1941 June 24
Photographer: Veihmeyer, Frank J.
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Box 65:83  796-D-c-84  Range Studies Manzanita Gleason 1941 June 24
Photographer: Veihmeyer, Frank J.
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Box 65:84  796-D-c-85  Range Studies Manzanita Leason Plot 1941 June 24
Photographer: Veihmeyer, Frank J.
Scope and Content Note
796-D-c-87 Range Studies Profile for Corning soil looking across out from top of hill where Corning plot is located. 1941 June 24
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

796-D-c-88 Range Studies Menzel South Plot 1941 June 25
   Photographer: Veihmeyer, Frank J.
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   (b) Menzel North Plot

796-D-c-89 (a) Range Studies Cleared path for Pole line--near Begum grass growing where Chamise bushes have been removed--looking west. (b) Growth of grass in cleared area for power line Begum in distance Chamise cover--looking east. 1941 June 25
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

796-D-c-90 Range Studies Gleason Ceanothus Plot 1941 June 24
   Photographer: 1941 June 24
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796-D-c-91 Range Studies Ono Plot 1 Burned plot left; unburned plot right; shows lack of grass due to competition of chamise. 1941 June 25
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

796-D-c-92 Range Studies Ono Plot No. 1 1941 June 25
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

796-D-c-93 Range Studies Mountain Lotus growing in burned plot No. 1 Ono 1941 June 25
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

796-D-c-95 Range Studies Button Canyon Plot 1941 June 25
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

796-D-c-96 Range Studies Diamond Range Plot 1941 June 25
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

796-D-c-97 Range Studies Holland Plot 1941 June 25
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

796-D-c-98 Range Studies. Cold Fork, Tehama county. 1941 September 25
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| Box 65:96  | 796-D-c-103 | Range Studies. Menzel south plots, Shasta county. 1941 September 26  
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| Box 65:99  | 796-D-c-107 | Range studies. Ceanothus Gleason plots, Tehama County. 1941 September 27  
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| Box 65:100 | 796-D-c-108 | 1 cu. ft. tilt bucket constructed by C.N. Johnston for range studies. 1941 October 5  
Photographer: Johnston, C.N.  
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| Box 65:101 | 796-D-c-109 | 5 cu. ft. tilt bucket constructed by C.N. Johnston for range studies. 1941 October 5  
Photographer: Johnston, C.N.  
Scope and Content Note |
| Box 65:102 | 796-D-c-110 | (a) Button Canyon burned: Shows clean area for runoff and runoff assembly to S.E. of plot. (b) Shows surge tank and water meter. Latter 3/4" left of border of picture and a 1 1/4" from top. (c) Button Canyon Covered: Shows runoff assembly. View W. Water meter below tank to left. 1941 December 6  
Photographer: Johnston, C.N.  
Scope and Content Note |
| Box 65:103 | 796-D-c-111 | (a) Holland unburned. Shows runoff set-up 2nd at R.H. density of cover. Water meter below tank. (b) Holland unburned. Shows 10” Hume and settling box at low corner of plot. Also shows rain gauge in upper center of picture behind underbrush. View S.W. 1941 December 6  
Photographer: Johnston, C.N.  
Scope and Content Note |
| Box 65:104 | 796-D-c-112 | (a) Holland burned: shows clean runoff area as well as take off units for runoff recording assembly. View W. (b) Holland burned. Shows runoff assembly complete. Water meter below tank. 1941 December 6  
Photographer: Johnston, C.N.  
Scope and Content Note |
| Box 65:105 | 796-D-c-117 | Redding Plot, East of Redding. Range Studies. 1941 December 20  
Photographer: Hutchings, R.  
Scope and Content Note |
| Box 65:106 | 796-D-c-118 **Range Studies. Manzanita Gleason Plot, East of Red Bluff. 1941 December 23**  
|           | Photographer: Hutchings, R.  
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| Box 65:107 | 796-D-c-119 **Range Studies. Ceano, Gleason Plot, Tehama County. 1941 December 23**  
|           | Photographer: Hutchings, R.  
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| Box 65:108 | 796-D-c-120 **Range Studies. Inskip Plot, East of Red Bluff. 1941 December 23**  
|           | Photographer: Hutchings, R.  
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|           | Photographer: Hutchings, R.  
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| Box 65:110 | 796-D-c-122 **Range Studies. Menzel South Plot, Shasta County. Vegetation removed in Sept. and Oct. 1941 December 22**  
|           | Photographer: Hutchings, R.  
|           | Scope and Content Note |
| Box 65:111 | 796-D-c-124 (a) **The head board on one of the runoff and erosion plots, Vaile Ranch, Riverside county.**  
|           | (b) **Pillsbury standing at edge of clearing next to runoff and erosion areas indicating height of brush, Vaile Ranch. 1942 January 15**  
|           | Photographer: Veihmeyer, Frank J.  
|           | Scope and Content Note |
| Box 65:112 | 796-D-c-125 (a) **View from road looking at hillside towards runoff and erosion plots. Notice J.E. Christiansen and Pillsbury at the corners of the plots.**  
|           | (b) **Cleared plot for soil sampling. Pillsbury in background, Vaile Ranch Riverside County. 1942 January 15**  
|           | Photographer: Veihmeyer, Frank J.  
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| Box 65:113 | 796-D-c-126 **One of the silt collecting boxes on runoff and erosion plots, Vaile Ranch, Riverside, Calif. 1942 January 15**  
|           | Photographer: Veihmeyer, Frank J.  
|           | Scope and Content Note |
| Box 65:114 | 796-D-c-127 **Runoff and erosion plots. Inskip plot. Tehama County. 1942 April 23**  
|           | Photographer: Veihmeyer, Frank J.  
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| Box 65:115 | 796-D-c-128 **Runoff and erosion studies. Manzanita Gleason, east of Red Bluff. 1942 April 23**  
|           | Photographer: Veihmeyer, Frank J.  
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| Box 65:116 | 796-D-c-129 **Runoff and erosion studies. Ceanothus Gleason plots, Tehama County. 1942 April 23**  
|           | Photographer: Veihmeyer, Frank J.  
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Box 65:117  796-D-c-130 Runoff and erosion studies. Ono plot 1. 1942 April 24  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note

Box 65:118  796-D-c-132 Runoff and erosion plots. Menzel South Plot, Shasta County. 1942 April 24  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note

Box 65:119  796-D-c-133 Runoff and erosion studies. Button Canyon Plot, showing runoff assembly. 1942 April 24  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note

Box 65:120  796-D-c-137 Runoff and erosion studies. Diamond Range Plot. 1942 April 24  
Photographer: Veihmeyer, Frank J.  
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Box 65:121  796-D-c-139 Range Experimental plot. Diamond Range, 8/13/42. 1942 August 13  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note

Box 65:122  796-D-c-140 Range Experimental Plot. Redding 1942 August 14  
Photographer: Veihmeyer, Frank J.  
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Box 65:123  796-D-c-141 Range Experimental Plot. Manzanita Gleason, 8/14/42. 1942 August 14  
Photographer: Veihmeyer, Frank J.  
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Box 65:124  796-D-c-142 Range Experimental Plot. Manzanita Gleason 1942 August 14  
Photographer: Veihmeyer, Frank J.  
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Box 65:125  796-D-c-143 Range Experimental Plots. Diamond Range, West watershed. 1943 January 7  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note

Box 65:126  796-D-c-144 Range Experimental Plots. Manzanita Gleason No. 3. 1943 January 8  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note

Box 65:127  796-D-c-145 Range Experimental Plot. Holland. 1943 January 7  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note

Box 65:128  796-D-c-146 Range Experimental Plot. Ono, No. 1. 1943 January 7  
Photographer: Veihmeyer, Frank J.  
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<td>a. <strong>One of the small drainage areas, Vaile Ranch, Riverside County.</strong> b. <strong>Plot on Vaile Ranch, Riverside County, burned in 1941. c. Plot established by Pillsbury, Feb. 1943, on Vaile Ranch in area burned Oct. 1942. 1943 March 2</strong></td>
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Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:142 796-D-c-160 Range Experimental Plot. Diamond Range. 1943 April 23
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:143 796-D-c-161 Range Experimental Plot, Button Canyon, covered. Regulating tank for water meter to measure runoff from covered plot. Notice water meter in lower right-hand corner. View from below. 1943 April 23
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:144 796-D-c-162 Range Experimental Plot, Button Canyon, covered. Regulating tank for water meter to measure runoff from covered plot. View from above. 1943 April 23
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:145 796-D-c-163 Range Experimental Plot, Button Canyon. Burned plot on right. Notice effect of competition by the brush on growth of grass. Compare with 796-D-223 and 796-D-224 views of burned plots. 1943 April 23
Photographer: Veihmeyer, Frank J.
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Box 65:146 796-D-c-164 Range Experimental Plot. Button Canyon. 4/23/43. See 796-D-222. 1943 April 23
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:147 796-D-c-165 Range Experimental Plot. Button Canyon. See 796-D-222. 1943 April 23
Photographer: Veihmeyer, Frank J.
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Box 65:148 796-D-c-166 a. Plot No. 1, Ono, showing lack of growth of grass due to competition. b. Plot No. 2; c. Plot No. 3, looking north from No. 1; d. Plot No. 4. 1943 June 11
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:149 796-D-c-167 a. Bare plot, Holland, 6/11/43 b. Diamond Range, 6/13/43 1943 June 11, 1943 June 13
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:150 796-D-c-168 a. Range Experimental Plot, Ono No. 1, 10/13/43 b. Ono No. 4. 1943 October 13
Photographer: Veihmeyer, Frank J.
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Box 65:151 796-D-c-169 Range Experimental Plot, burning Diamond Range 1943 October 13
Photographer: Veihmeyer, Frank J.
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<td><strong>Range Management Investigations. Ono plot #3 just after burning, 1943 October 13</strong></td>
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<td>Veihmeyer, Frank J.</td>
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<td>65:156</td>
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<td><strong>Range management investigations. Oregon Oaks Plot just after burning, 1943 October 14</strong></td>
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<td>Veihmeyer, Frank J.</td>
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<td>65:158</td>
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<td><strong>Range management investigations. Button Canyon plot at time infiltration tests made, 1944 March 8</strong></td>
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<td>Veihmeyer, Frank J.</td>
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<td><strong>Range management investigations. Holland plot just after burning, 1943 October 13</strong></td>
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<td>Range management investigations. Holland Plot. 1944 May 10</td>
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<td>Range management investigations. Button Canyon Plot. 1944 May 9</td>
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<td>Veihmeyer, Frank J.</td>
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<td>Range management investigations. Lake Plot #1. 1944 October 26</td>
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<td>Box 65:173</td>
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<td>Range management investigations. Lake Plot #1. 1944 October 26</td>
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Photographer: Veihmeyer, Frank J.
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Photographer: Veihmeyer, Frank J.
Scope and Content Note

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Photographer: Veihmeyer, Frank J.
Scope and Content Note

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Photographer: Veihmeyer, Frank J.
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1946 March 22
Photographer: Veihmeyer, Frank J.
Scope and Content Note

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Photographer: Veihmeyer, Frank J.
Scope and Content Note

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October 1
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:185  796-D-c-203 Range management investigations. Madera No. 1 1947 January 7
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:186  796-D-c-204 Range management investigations. Madera No. 1. 1947 January 7
Photographer: Veihmeyer, Frank J.
Scope and Content Note

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Scope and Content Note

Box 65:190 796-D-c-209 Equipment used in measuring runoff and erosion from burned and covered plots. Preliminary trials before cutting and burning one of the pairs of troughs. Picture taken south of the Irrigation and Hydraulics Laboratory. 1947 April 29
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Photographer: V.H.S.
Scope and Content Note

Box 65:192 796-D-c-211b,c Range Management Investigations. Monterey No. 3, Plot B. 1947 April 25
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:193 796-D-c-212 Madera No. 1 Plot B 1947 September 26
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:194 796-D-c-213 Madera No. 1 Plot B 1947 September 26
Photographer: Veihmeyer, Frank J.
Scope and Content Note

November 10
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Before burning. 1947 November 10
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:197 796-D-c-216 Range management investigations. Lake No. 1, Plot A. November 10, 1947
Showing regrowth. 1947 November 10
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:198 796-D-c-217 Range management investigations. Lake No. 1, Plot A. 1947 November 10
Photographer: Veihmeyer, Frank J.
Scope and Content Note
| Box 65:199 | 796-D-c-218 Range management investigations. Lake No. 1, Plot B. 1947 November 10 |
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:212  796-D-c-231 **Range management investigations. Lake No. 1, Plot B. January 22, 1948. 1948 January 22**
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:214  796-D-c-233 **Button Canyon, Sterilized Plot. 1947 November 6**
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:215  796-D-c-234 **Sterilized Plot, Button Canyon. 1947 November 6**
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:216  796-D-c-235 **Madera 1 B Plot. Looking up the slope. 1948 Summer**
Photographer: Biswell, Harold H.
Scope and Content Note

Box 65:217  796-D-c-236 **Lake No. 1 Plot A 1949 January 22**
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:218  796-D-c-237 **Lake No. 1 1949 January 22**
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:219  796-D-c-238 **Lake No. 1 Plot B looking downhill 1949 January 22**
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:220  796-D-c-239 **Ukiah Plot B looking northeast. Lack of vegetation. 1949 January 22**
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:221  796-D-c-240 **Ukiah Plot B looking southeast. Note lack of vegetation. 1949 January 22**
Photographer: Veihmeyer, Frank J.
Scope and Content Note
| Box 65:222 | 796-D-c-241 | **Ukiah B plot looking East. 1949 January 22**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:223 | 796-D-c-242 | **Ukiah Plot B. No vegetation looking southwest. 1949 January 22**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:224 | 796-D-c-243 | **Ukiah Plot B from S.W. view looking Northeast. Lack of vegetation. 1949 January 22**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:225 | 796-D-c-244 | **Madera 1 B 1949 February 12**  
Photographer: Chevalier, J.  
Scope and Content Note |
| Box 65:226 | 796-D-c-245 | **Monterey No. 2 Plot B looking northeast. Nothing growing at this time. 1949 February 12**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:227 | 796-D-c-246 | **Monterey No. 1 B Plot Nothing growing at this time. Looking east. 1949 February 12**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:228 | 796-D-c-247 | **Madera No. 1 A Plot. 1948 October 23**  
Photographer: Miller, M.  
Scope and Content Note |
| Box 65:229 | 796-D-c-248 | **Monterey Watersheds - A and B. "A" on right (Southeast) "B" on left (Northwest) 1949 February 12**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:230 | 796-D-c-249 | **Monterey Watersheds A and B. A on right (Southeast) B on left (Northwest) 1949 February 12**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:231 | 796-D-c-250 | **Monterey Plot No. 4. 1949 February 12**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 65:232 | 796-D-c-251 | **Monterey Plot #4. 1949 February 12**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
Box 65:233 796-D-c-252 (No neg) **Ono plot No. 3.** This area was burned annually since 1936, except for the past two years. Note that the area supports a uniform stand of grasses. This has been an unfavorable growing season for grasses, yet the yield here is very good. **1949 June 28**

Photographer: Biswell, Harold H.
Scope and Content Note

Box 65:234 796-D-c-253 **Ono Plot No. 2, plot A,** showing the depth of erosion between chamise clumps. The chamise was cut and burned November 19, 1948. **1949 June 28**

Photographer: Biswell, Harold H.
Scope and Content Note

Box 65:235 796-D-c-254 **Holland, B plot, Shasta County.** Note the good stand of grasses, even during this season unfavorable to plant growth. **1949 June 28**

Photographer: Biswell, Harold H.
Scope and Content Note

Box 65:236 796-D-c-255 **Ono plot No. 4.** **1949 June 28**

Photographer: Biswell, Harold H.
Scope and Content Note

Box 65:237 796-D-c-256 (No neg) **Menzel North plot, Shasta County, Aiken soil.** **1949 June 28**

Photographer: Biswell, Harold H.
Scope and Content Note

Box 65:238 796-D-c-257 **Portion of plot in Shasta County located on Holland B soil in area of chamise. This area has been burned over annually for 8 yrs.** **1949 June 28**

Photographer: Biswell, Harold H.
Scope and Content Note
Slide No 796-D-c-62

Box 65:239 796-D-c-258 **Ono plot No. 1.** The grass is in the middle of the 50x50 ft. square plot. Around the borders for a distance of 15 ft. or so the area is kept bare from competition from the chamise brush for soil moisture. **1949 June 28**

Photographer: Biswell, Harold H.
Scope and Content Note
Slide No. 796-D-c-63

Box 65:240 796-D-c-259 **Madera No. 1, Plot B.** **1948 December 23**

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:241 796-D-c-260 **Bulkhead at flume entrance, Tulare watershed A.** **1949 December 29**

Photographer: Scott, Verne H.
Scope and Content Note

Box 65:242 796-D-c-261 **Tulare Plot A. Catch trough at lower side of plot.** **1950 October**

Photographer: Burgy, Robert H.
Scope and Content Note
Box 65:243  796-D-c-262 Tulare Plot A. Border boards and cans to catch rainfall from trough gages. 1950 October
   Photographer: Burgy, Robert H.
   Scope and Content Note

Box 65:244  796-D-c-263 Spring Dell, San Benito County. Upper right brush area Plot E, Uncovered area Plot D, left burned area Plot C. 1950 March 9
   Photographer: Sparks, John P.
   Scope and Content Note

Box 65:245  796-D-c-264 Spring Dell Plots, San Benito County. Brush area in upper picture Plot E, open area in Plot E shows rain gages, uncovered area on hill Plot D. 1950 March 9
   Photographer: Sparks, John P.
   Scope and Content Note

Box 65:246  796-D-c-265 Tulare Range A. Taken from lower west ridge of watershed, center of watershed in center of picture, fence line running over hill. 1950 March 9
   Photographer: Sparks, John P.
   Scope and Content Note

Box 65:247  796-D-c-266 Tulare Range B, taken from west ridge across watershed to east ridge. Rock outcrop in upper right. 1950 March 9
   Photographer: Sparks, John P.
   Scope and Content Note

Box 65:248  796-D-c-267 Tulare Range B, tilt bucket, tank, and flume. Water stage recorder on side of tank. 1950 March 9
   Photographer: Sparks, John P.
   Scope and Content Note

Box 65:249  796-D-c-268 Tulare Range A. Tilt bucket, tank and flume. Water stage recorder on side of tank. 1950 March 9
   Photographer: Sparks, John P.
   Scope and Content Note

Box 65:250  796-D-c-269 Tulare Range B. Taken from west ridge up trough of watershed. Rock outcrop in center. 1950 March 9
   Photographer: Sparks, John P.
   Scope and Content Note

Box 65:251  796-D-c-270 Spring Dell, San Benito County. Left burned area Plot C, right Plot B, upper right Plot A. 1950 March 9
   Photographer: Sparks, John P.
   Scope and Content Note

Box 65:252  796-D-c-271 Ukiah Range B 1952 March
   Photographer: Sparks, John P.
   Scope and Content Note

Box 65:253  796-D-c-272 Ukiah Range B 1952 March
   Photographer: Sparks, John P.
   Scope and Content Note
Box 65:254  796-D-c-273 **Ono Range A 1952 March**  
Photographer: Sparks, John P.  
Scope and Content Note

Box 65:255  796-D-c-274 **Ono Range B 1952 March**  
Photographer: Sparks, John P.  
Scope and Content Note

Box 65:256  796-D-c-275 **Burning Tulare Plot B 1951 October 16**  
Photographer: Sparks, John P.  
Scope and Content Note

Box 65:257  796-D-c-276 **Ahwahnee Range B. Recording Rain gage and thermograph. 1952 March**  
Photographer: Sparks, John P.  
Scope and Content Note

Box 65:258  796-D-c-277 **Ono Range D. 1952 March**  
Photographer: Sparks, John P.  
Scope and Content Note

Box 65:259  796-D-c-278 **Ukiah Range A 1952 March**  
Photographer: Sparks, John P.  
Scope and Content Note

Box 65:260  796-D-c-279 **Ahwahnee Range B. 1952 March**  
Photographer: Sparks, John P.  
Scope and Content Note

Box 65:261  796-D-c-280 **Ono Plot 1. Thermograph, recording rain gage, standard rain gage 1952 March**  
Photographer: Sparks, John P.  
Scope and Content Note

Box 65:262  796-D-c-281 **Ono Plot 3. Deer feeding on plot. 1952 March**  
Photographer: Sparks, John P.  
Scope and Content Note

Box 65:263  796-D-c-282 **Location of experimental plots and watersheds for hydrological studies. 1952 January**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note  
Slide No. 796-D-c-44

Box 65:264  796-D-d-13 **This number used for slide negative, "Differences in Minimum Soil-moisture Contents Between Burned and Unburned Plots in the Fall of 1941." Range Management Investigations. 1941 Fall**  
Photographer:  
Scope and Content Note  
Slide No. 796-D-d-18
Box 65:265
796-D-d-16 Rainfall, runoff and interception by vegetation, Range Management plots undated
Photographer: Veihmeyer, Frank J.
Scope and Content Note
796-D-d-16

Box 65:266
796-D-d-17 Erosion record, Range Management plots. undated
Photographer: Veihmeyer, Frank J.
Scope and Content Note
796-D-d-17

Box 65:267
796-D-f-1 From unburned area, Range Management Experiment. Shasta Co. 1934 June 30
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:268
796-D-f-2 From unburned area, Range Management Experiment. Shasta Co. 1934 June 30
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:269
796-D-f-3 From unburned area, Range Management Experiment. Shasta Co. 1934 June 30
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:270
796-D-f-4 From unburned area, Range Management Experiment. Shasta Co. 1934 June 30
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:271
796-D-f-5 From burned area, Range Management Experiment. Shasta Co. 1934 June 30
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:272
796-D-f-6 Cattle from burned area, Range Management Experiment. 1934 June 30
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:273
796-D-f-7 From burned area, Range Management Experiment Shasta Co. 1934 June 30
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:274
796-D-f-8 Cows on unburned area, Range burning experiment, Shasta Co. (3 views) 1935 March 23
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 65:275
796-D-f-9 Cows placed on burned area, Range burning experiment, Shasta County. (3 views) undated
Photographer: Veihmeyer, Frank J.
Scope and Content Note
Box 65:276 796-D-f-10 Cattle on unburned area. Range management studies, Duncan Creek area, Shasta county, Calif. 1936 June 14
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 65:277 796-D-f-11 Cattle on unburned area. Range management studies, Duncan Creek area, Shasta county, Calif. 1936 June 14
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 65:278 796-D-f-12 Cattle on unburned area. Range management studies, Duncan Creek area, Shasta county, Calif. 1936 June 14
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 65:279 796-D-f-13 Cattle on unburned area. Range management studies, Duncan Creek area, Shasta county, Calif. 1936 June 14
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 65:280 796-D-f-14 Cattle on burned area. Range management studies, Duncan Creek area, Shasta county, Calif. 1936 June 15
   Photographer: Hart, G.H.
   Scope and Content Note

Box 65:281 796-D-f-15 Cattle on burned area. Range management studies, Duncan Creek area, Shasta county, Calif. 1936 June 15
   Photographer: Hart, G.H.
   Scope and Content Note

Box 65:282 796-D-f-16 Cattle on burned area. Range management studies, Duncan Creek area, Shasta county, Calif. 1936 June 15
   Photographer: Hart, G.H.
   Scope and Content Note

Box 65:283 796-D-g-1 a. Roosevelt Highway, Santa Monica. Hills burn in Fall, 1942. No evidence of eroded material back of debris dam. Side of hills in foreground burned. b. Ditch along Roosevelt Highway to catch eroded material from hills to east. Burned in Fall of 1942. Note absence of erosion. 1943 March 1
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 65:284 796-D-g-2 c. Burned hills east of and along Roosevelt Highway. Looking upstream from debris, note absence of erosion. d. Ditch built for debris; note absence of eroded material. e. Closeup of ditch to intercept silt from burned area to left, but note lack of eroded material. 1943 March 1
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 65:285 796-D-g-3 Burned (Oct. 1942) area in Los Flores Canyon. Both sides of Canyon burned. Burned houses may be seen in both pictures. This area above Roosevelt Highway. See pictures 796-D-209a-e for lack of eroded material in ditches. 1943 March 1
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
Box 65:286  
797-A-1 (no print) *Average annual temperature(F), Period 1799-1938.* Taken from the Yearbook of Agriculture, 1941 p.703. J.B. Kincer. 1942 January
Photographer: Weston
Scope and Content Note

Box 65:287  
797-A-2 (no print) *Average July wet-bulb temperature(degrees F).* Taken from the Yearbook of Agriculture, 1941 p. 710. J.B. Kincer. 1942 January
Photographer: Weston
Scope and Content Note

Box 65:288  
797-A-3 (no print) *Temperature departure from normal, in F for a period of maximum circulation. The index at this time was 12.5 millibars.* Taken from the 1941 Yearbook of Agriculture p.630 C.G. Rossby 1942 January
Photographer: Weston
Scope and Content Note

Box 65:289  
797-A-4 (no print) *Temperature departure from normal, in F, for a period of minimum circulation. The index at this time was -1.4 millibars.* Taken from the 1941 Yearbook of Agriculture, p.630 C.G. Rossby. 1942 January
Photographer: Weston
Scope and Content Note
Slide no P 1402

Box 65:290  
797-B-1 (no print) *Average warm season precipitation, (period 1899-1938) April to Sept. inc.* Taken from the Yearbook of Agr. 1941 p.712. J.B.Kincer. 1942 January
Photographer: Weston
Scope and Content Note
Slide 797-B-4

Box 65:291  
797-B-2 (no print) *Supplementary climatic notes for California, average annual precipitation, inches.* Taken from the Yearbook of Agriculture, 1941 p.795. J.B.Kincer. 1942 January
Photographer: Weston
Scope and Content Note
797-B-5

Box 65:292  
797-B-3 (no print) *Average annual precipitation, (inches) Period, 1899-1938.* Taken from the Yearbook of Agriculture, 1941 p.711. J.B. Kincer. 1942 January
Photographer: Weston
Scope and Content Note
Slide 797-B-4

Box 65:293  
Photographer: Weston
Scope and Content Note
Slide No. P 1392
Box 65:294 797-B-5 (no print) Valley and mountain precipitation by months at Yakima, Wash., Salt Lake City, Utah, and Phoenix, Ariz. Taken from the Yearbook of Agriculture 1941, p. 191 R.W. Bailey. 1942 January
   Photographer: Weston
   Scope and Content Note
   Slide no. 797-B-6

Box 65:295 797-B-6 (no print) Annual precipitation in relation to mountains and valleys along a course between San Francisco and Denver. Taken from the 1941 Yearbook of Agriculture. R.W. Bailey p.192. 1942 January
   Photographer: Weston
   Scope and Content Note

Box 65:296 797-C-1 (no print) Convective circulation. Taken from Yearbook of Agriculture for 1941, p.603 C.G. Rossby. 1942 January
   Photographer: Weston
   Scope and Content Note

Box 65:297 797-C-2 (no print) Meriodional (North and South) circulation. Taken from the Yearbook of Agriculture, 1941 p. 603 C.G. Rossby. 1942 January
   Photographer: Weston
   Scope and Content Note

Box 65:298 797-C-3 (no print) The three hemispheric circulation cells. The final cellular meridional circulation on a rotating earth. Taken from the Yearbook of Agriculture for 1941 p. 611, C.G. Rossby. 1942 January
   Photographer: Weston
   Scope and Content Note

Box 65:299 797-C-4 (no print) Influence of the earth's rotation. Taken from the 1941 Yearbook of Agriculture p.607 C.G. Rossby. 1942 January
   Photographer: Weston
   Scope and Content Note

Box 65:300 797-C-5 (no print) Normal seal-level pressure distribution (millibars) over the Southern hemisphere in July. Taken from the 1941 Yearbook of Agriculture p.614 C.G. Rossby. 1942 January
   Photographer: Weston
   Scope and Content Note

Box 65:301 797-C-6 (no print) Normal seal-level pressure distribution (millibars) over the Northern hemisphere in January. Taken from the 1941 Yearbook of Agriculture. p.615 C.G. Rossby 1942 January
   Photographer: Weston
   Scope and Content Note

Box 65:302 797-C-7 (no print) Polar-front waves. Taken from the 1941 Yearbook of Agriculture. p.632 C.G. Rossby. 1942 January
   Photographer: Weston
   Scope and Content Note
Box 65:303
797-D-1 (no print) **Climates of the earth, showing the extent of regions dominated by cold, dry and wet climates unfavorable to settlement. Taken from the 1941 Yearbook of Agriculture p.230 Jan. O.M. Broek. 1942 January**
  
  Photographer: Weston
  
  Scope and Content Note

Box 65:304
797-D-2 (no print) **World population showing concentration of settlement in regions of more favorable climates. Taken from the Yearbook of Agriculture. p.229 Jan O.M. Broek. 1942 January**
  
  Photographer: Weston
  
  Scope and Content Note

Box 65:305
800-A-1 **Ladino Clover Seed Production Plot 1954**
  
  Photographer: Hogan, L. Jones, H. Groves
  
  Scope and Content Note
  
  Slide no 75K2. Abstract - Effect of Irrigation Treatment on Seed Production of Ladino Clover Pub. 1957

Box 65:306
800-A-2 **Ladino Clover Plot 1954**
  
  Photographer: Hagan, Robert Mower
  
  Scope and Content Note
  
  Davis

Box 65:307
800-A-3 **Ladino Clover Plot 1954**
  
  Photographer: Hagan, Robert Mower
  
  Scope and Content Note

Box 65:308
800-A-4 **Ladino Clover Plot 1954**
  
  Photographer: Hagan, Robert Mower
  
  Scope and Content Note

Box 65:309
800-A-5 **Ladino Clover Plot B 6" 1954**
  
  Photographer: Hagan, Robert Mower
  
  Scope and Content Note

Box 65:310
800-A-6 **Ladino Clover Plot B 9" 1954**
  
  Photographer: Hagan, Robert Mower
  
  Scope and Content Note

Box 65:311
800-A-7 **Ladino Clover Plot C 6" 1954**
  
  Photographer: Hagan, Robert Mower
  
  Scope and Content Note

Box 65:312
800-A-8 **Ladino Clover Plot C 9" 1954**
  
  Photographer: Hagan, Robert Mower
  
  Scope and Content Note

Box 65:313
800-A-9 **Ladino Clover Plot D 6" 1954**
  
  Photographer: Hagan, Robert Mower
  
  Scope and Content Note
Box 65:314  800-A-10 **Ladino Clover Plot D 9" 1954**  
Photographer: Hagan, Robert Mower  
Scope and Content Note

Box 65:315  800-A-11 **Ladino Clover Plot D 12" 1954**  
Photographer: Hagan, Robert Mower  
Scope and Content Note

Box 65:316  800-A-12 **Ladino Clover Plot E 3" 1954**  
Photographer: Hagan, Robert Mower  
Scope and Content Note

Box 65:317  800-A-13 **Ladino Clover Plot E 9" 1954**  
Photographer: Hagan, Robert Mower  
Scope and Content Note

Box 65:318  800-A-14 **Ladino Clover 1953-1957**  
Photographer: Hagan, Robert Mower  
Scope and Content Note

Box 65:319  800-A-15 **Ladino Clover Plot 2C 12" 1953**  
Photographer: Hagan, Robert Mower  
Scope and Content Note

Box 65:320  800-A-16 **Ladino Clover 1953**  
Photographer: R. Hogan  
Scope and Content Note

Box 65:321  800-A-17 **Ladino Clover 3E 8" 1953**  
Photographer: Hagan, Robert Mower  
Scope and Content Note

Box 65:322  800-A-18 **Ladino Clover Comparison of Plots B, C, D, E 1953**  
Photographer: Hagan, Robert Mower  
Scope and Content Note

Box 65:323  800-A-19 **Ladino Clover Plot B 1953**  
Photographer: Hagan, Robert Mower  
Scope and Content Note

Box 65:324  800-A-20 **Ladino Clover Plot B 1953**  
Photographer: Hagan, Robert Mower  
Scope and Content Note

Box 65:325  800-A-21 **Ladino Clover Plot C 1953**  
Photographer: Hagan, Robert Mower  
Scope and Content Note

Box 65:326  800-A-22 **Ladino Clover Plot C 1953 Davis**  
Photographer: Hagan, Robert Mower  
Scope and Content Note
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| Box 65:352 | 800-A-48 **Ladino Clover 1954**  
Photographer: Hagan, Robert Mower  
Scope and Content Note |
|-------------|--------------------------------------------------|
| Box 65:353 | 800-A-49 **Ladino Clover 1954**  
Photographer: Hagan, Robert Mower  
Scope and Content Note |
| Box 65:354 | 800-A-50 **Ladino Clover 1952 Data 1954**  
Photographer: Hagan, Robert Mower  
Scope and Content Note |
| Box 65:355 | 800-A-51 **Ladino Clover 1952 Field Data 1954**  
Photographer: Hagan, Robert Mower  
Scope and Content Note |
| Box 65:356 | 800-A-52 **Ladino Clover 1952 Field Data 1954**  
Photographer: Hagan, Robert Mower  
Scope and Content Note |
Photographer: Hagan, Robert Mower  
Scope and Content Note |
| Box 65:358 | 800-A-a **See waterlogged tanks. 800-L-a-58, 59, 60, 61, 62. undated**  
Photographer:  
Scope and Content Note |
| Box 65:359 | 800-A-a **Tanks and weighing equipment used in alfalfa studies undated**  
Photographer:  
Scope and Content Note  
See 800-M-a-21 |
| Box 65:360 | 800-A-a-1 **Use of water by alfalfa grown in tanks, University Farm, Davis. Tanks covered with celotex to reduce evaporation 1928**  
Photographer: >Huberty, Martin R.  
Scope and Content Note |
| Box 65:361 | 800-A-b-1 **Sacramento Valley Irrigation Experimental Tract, Willows, Cal. 1915 May 06**  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This is the first cutting of alfalfa in May, 1915. This tract was placed at the disposal of Irrigation Investigations, by the Sacramento Valley Irrigation Co., for the purpose of applying varying quantities of water to individual checks, and for applying equivalent total amounts of water at varying times. This was a part of the general study made in 1913, 1914 and 1915, of the economic duty of water for alfalfa in the Sacramento Valley. |
| Box 65:362 | 800-A-b-2 **Newly planted alfalfa checks with rye on borders - Delhi Irrigation Experimental Tract 1921 Spring**  
Photographer: Adams, Frank  
Scope and Content Note |
Box 65:363 800-A-b-3 *Irrigated alfalfa Frank, Sacramento Valley Irrigation Experimental Tract, Willows, Cal. 1915 August 27*

Photographer: Hutchins, Wells A.

Scope and Content Note
This experimental work on the Sacramento Valley Irrigation tract was carried on only in 1915, but was a part of the general alfalfa duty of water investigations in the Sacramento Valley covering the years 1913 to 1915 inclusive.

Box 65:364 800-A-b-4 *Irrigation of alfalfa plots. Dr. Doneen and irrigator 1938 August 20*

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 65:365 800-A-c-1 *Weighing Hay Shocks, Willows, Cal. 1916 May 7*

Photographer: Hutchins, Wells A.

Scope and Content Note
Where it was not possible in the Sacramento Valley alfalfa duty of water work to obtain weights of hay from any cutting, or to obtain the weight of a load of hay, the yield was usually ascertained by weighing a number of the hay shocks in the field, counting the shocks, and averaging the result. The apparatus shown in this picture was a collapsible frame consisting on a wooden beam with 4 pipes to support it. From the beam a differential pulley was suspended. To the pulley was hooked a 200 lb. steelyard scale and to the scale was attached a rope net wrapped around the shock. The procedure was to carry the apparatus over a field, throw the net over a shock of hay, turn this shock upside down on the net, bring the ends of the net together, set up the frame over the shock, hold it up on the pulley, and weigh it. Two men were required for satisfactory work.

Box 65:366 800-A-c-2 *Mucking ditch above weir, Imperial Valley, 1915 alfalfa investigations. 1915*

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 65:367 800-A-c-3 *Scalding alfalfa on lower ends of checks, 1915, Imperial Valley. 1917*

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 65:368 800-A-c-4 *alfalfa field Palo Verde Valley. 1929*

Photographer: Adams, Frank

Scope and Content Note

Box 65:369 800-A-c-5 *alfalfa field, experimental plot, Delhi, Calif. 1921 May*

Photographer: Huberty, Martin R.

Scope and Content Note
Experimental tract, Delhi, pumping plant in foreground

Box 65:370 800-B-a-1 *Rice field - Cortena Station. Looking northwest. 1919*

Photographer:

Scope and Content Note

Box 65:371 800-B-a-2 *Showing changing water vs. stagnant water - Stagnant plot on left: changing on right. 1919*

Photographer: Dunshee, Carroll F.

Scope and Content Note
| Box 65:372 | 800-B-a-3  | **Rice Experiments - depth of submergence 1919**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 65:373 | 800-B-a-4  | **Changing water - Plot D-10. Experiment Station - Spaulding Ranch. 1919**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 65:374 | 800-B-a-5  | **Plots A-7 and A-8 - Norman. Land too strong in alkali for rice production. 1919**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 65:375 | 800-B-a-6  | **University of California temporary rice experiment station, Cortena, California. Sept. 29, 1922. View of Plot #1 seeded and submerged April 15, 1922. Rice seed broadcasted at rate of 150 pounds per acre prior to submergence. undated**  
Photographer:  
Scope and Content Note |
| Box 65:376 | 800-B-a-7  | **View of Plot 60. Broadcasted at rate of 150 lbs per acre and submerged continuously. Submerged April 25, 1922. 1922 September 29**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 65:377 | 800-B-a-8  | **View of rice head just beginning to fill. Most of head in blossom. Plot 60. 9-14-22. 1922 September 14**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 65:378 | 800-B-a-9  | **Cortena. Check plot drilled at rate of 150 lbs. per acre. Irrigated 5 times to germinate seed and bring plants 4-5 inches high. Plants were submerged 30 days after emergence from the soil. 1922 September 29**  
Photographer:  
Scope and Content Note |
| Box 65:379 | 800-B-a-10 | **View of Plot #18 at Cortena. This plot was not plowed. The plot was submerged 6 inches and seeded in water at rate of 150 lbs. per acre. Note poor stand of rice and heavy growth of cat tails. 1922 September 29**  
Photographer:  
Scope and Content Note |
| Box 65:380 | 800-B-a-11 | **Univ. of Calif. Rice Experiment Station, Cortena. 1922 September 29**  
Photographer: Adams, Frank  
Scope and Content Note  
This rice was drilled 1 inch deep and irrigated 5 times to germinate seed and bring plants to height of 4 to 6 inches. Submergence began 30 days after plant emerged from the soil. Note the poor stand of rice and heavy growth of weeds resulting from this method. |
| Box 65:381 | 800-B-a-12 | **Submerging rice plots at Cortena, 1922. undated**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 65:382 | 800-B-a-13 **Rice, Cortena 1922**  
Photographer:  
Scope and Content Note |
| --- | --- |
| Box 65:383 | 800-B-a-14 **Rice at Cortena 1922**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 65:384 | 800-B-a-15 **Rice, Cortena. 1922**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 65:385 | 800-B-a-16 **Rice, Cortena 1922**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 65:386 | 800-B-a-17 **Rice field east of Williams 1922**  
Photographer:  
Scope and Content Note |
| Box 65:387 | 800-B-a-18 **Rice at Cortena, 1922. Plots submerged 30 days after plants emerged from soil. 1922**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 65:388 | 800-B-a-19 **Effect of sedge in Plot 56, Cortena. 1923 July 26**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 65:389 | 800-B-a-19 **1/5 acre plot, rice experiment station, Biggs, on which submergence was started 30 days after emergence of plants. undated**  
Photographer:  
Scope and Content Note |
| Box 65:390 | 800-B-a-20 **View of field crops at Cortena. 1923 September 5**  
Photographer:  
Scope and Content Note |
| Box 65:391 | 800-B-a-21 **View of field crops at Cortena, California. 1923 September 5**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 65:392 | 800-B-a-22 **View across check plot at University Rice Experiment Station, Cortena undated**  
Photographer: Adams, Frank  
Scope and Content Note  
Seed was drilled and irrigated 5 times prior to submergence. Submergence began 30 days after plants emerged from the soil. Note foul growth and rather poor stand of rice. |
| Box 65:393 | 800-B-a-23 **View of plants seeded and submerged at different dates. Left to right - submerged April 15, May 1, May 15, June 1. undated**  
Photographer: Adams, Frank  
Scope and Content Note |
Box 65:394 800-B-a-24 **Univ. of Calif. temporary Rice Experiment Station, Cortena, Calif. Plot 50.**

  undated  
  
  Photographer: Dunshee, Carroll F.  
  Scope and Content Note

Box 65:395 800-B-a-25 **Plot 6-a Cortena. Results from continuous 4-inch submergence. 1924**

  Photographer:  
  Scope and Content Note

Box 65:396 800-B-a-26 **1924 rice. 1924**

  Photographer: Adams, Frank  
  Scope and Content Note

Box 65:397 800-B-a-27 **Rice in Plot 61 - Cortena 1924**

  Photographer: Adams, Frank  
  Scope and Content Note

Box 3:398 800-B-a-28 **Beginning submergence of plots at University of California Rice Experiment Station, Cortena, California. 1922 April 26**

  Photographer: Adams, Frank  
  Scope and Content Note

Box 65:399 800-B-a-29 **Rice, Cortena 1922**

  Photographer:  
  Scope and Content Note

Box 65:400 800-B-a-30 **Group of rice growers attending demonstration at Cortena. 1922 September**

  Photographer: Adams, Frank  
  Scope and Content Note

Box 65:401 800-B-a-31 **Rice plots, Cortena. 1923**

  Photographer: Adams, Frank  
  Scope and Content Note

Box 65:402 800-B-a-32 **View of Plot 60, Cortena. Submerged continuously to depth of 8 inches. 1922 September**

  Photographer: Dunshee, Carroll F.  
  Scope and Content Note

Box 65:403 800-B-a-33 **Plot 61, Cortena. Rice submerged continuously to depth of 8 inches. 1924**

  Photographer: Adams, Frank  
  Scope and Content Note

Box 65:404 800-B-a-34 **Plat experiments - rice. Willows. 1919**

  Photographer: Dunshee, Carroll F.  
  Scope and Content Note

Box 65:405 800-B-a-35 **Variety tests, B.P.I. Station, California. 1916 September**

  Photographer: Robertson, Ralph D.  
  Scope and Content Note
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| 65:406 | View of flooded rice field at Cortena Rice Station showing manner in which the tops of young rice plants float on water surface for several days when they first reach the surface. 1929  
Photographer: Huberty, Martin R.  
Scope and Content Note |
| 65:407 | Experimental rice plots, Biggs, Calif. undated  
Photographer:  
Scope and Content Note |
| 65:408 | Table - rice yields in field plots below water warming basins of various depths. Wyhe Ranch, Glem Co. 1954-1955  
Photographer: Raney, F.  
Scope and Content Note |
| 65:409 | View of rice tanks at Cortena 1922 September  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| 65:410 | View of tank #9. Just after transplanting rice 1923 June 18  
Photographer:  
Scope and Content Note |
| 65:411 | General view of tanks just after installation. Cortena, Calif. 1923 June 18  
Photographer:  
Scope and Content Note |
| 65:412 | General View of Rice tanks at Cortena. 1923 July 10  
Photographer:  
Scope and Content Note |
| 65:413 | General view of Rice tanks. 1923 July 10  
Photographer:  
Scope and Content Note |
| 65:414 | General view of rice tanks, Cortena. 1923 September 3  
Photographer:  
Scope and Content Note |
| 65:415 | View of tank #9 at Cortena, top and bottom sealed. 1923 September 3  
Photographer:  
Scope and Content Note |
| 65:416 | View of tank #9, Cortena, California. Top and bottom sealed. 1923 September 3  
Photographer:  
Scope and Content Note |
| 65:417 | Tank #6, Cortena 1923  
Photographer:  
Scope and Content Note |
| Box 65:418 | 800-B-b-57 **Tank #1 - Cortena. 1923**  
Photographer:  
Scope and Content Note |
| Box 65:419 | 800-B-b-58 **View of tank #5, Cortena, California. Just after transplanting rice. Tank #9 in background. undated**  
Photographer:  
Scope and Content Note |
| Box 65:420 | 800-B-b-59 **Tank #9, Cortena. Top covered, bottom sealed. 1924**  
Photographer:  
Scope and Content Note |
| Box 65:421 | 800-B-b-60 **Rice tanks at Cortena. 1924**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 65:422 | 800-B-b-61 **Evaporation studies, Cortena 1924**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 65:423 | 800-B-b-62 **Use of water by rice tank studies conducted at Cortena, Calif. 1924**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 65:424 | 800-B-b-63 (3 negs.) **Rice growing in covered tank. Use of Water by rice studies, Cortena. 1924 July**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 65:425 | 800-B-b-64 **Type of rice tank used at Biggs Rice Field Station 1926**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 65:426 | 800-B-b-64a **Another view of rice tank used at Biggs Rice Field Station 1926**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 65:427 | 800-B-b-65 **Type of cylinder used for rice tanks at Biggs Rice Field Station 1926**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 65:428 | 800-B-b-66 **Installing rice tank at Biggs Rice Field Station 1926**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 65:429 | 800-B-b-67 **Installing rice tanks at Biggs 1926**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
Box 65:430  800-B-b-68 (2 neg.) **View of tank with sealed bottom, Biggs Rice Field Station 1926 April**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:431  800-B-b-69 **Tank layout after installation, Biggs Rice Field Station. Use of water by rice studies. 1926 April**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:432  800-B-b-70 **Plot on which tank experiments on use of water by rice are conducted at Biggs Rice Field Station, 1927**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:433  800-B-b-71 **General view of tank yard, Biggs Rice Field Station 1927 September**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:434  800-B-b-72 **Uncovered rice tank - use of water by rice studies at Biggs Rice Field Station 1927 July**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:435  800-B-b-73 **Covered rice tank - used of water by rice studies at Biggs Rice field station 1927 July**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:436  800-B-b-74 **Use of water by rice studies, Biggs Rice Field Station, Covered tank 1927 July**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:437  800-B-b-75 **Use of water by rice studies at Biggs Rice Field Station, Covered tank. 1927 July**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:438  800-B-b-76 **Fertilizer studies at the Biggs Rice Field Station. Rice is being grown in garbage cans. 1927 August**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:439  800-B-b-77 **Rice growing in 6" of water - depth of water studies, Biggs Rice field Station 1927 September**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:440  800-B-b-78 **Effect of depth of submergence on yield of rice, Biggs, Rice Field Station 1927 August**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note
Box 65:441 800-B-b-79 **Studies on Use of Water by Rice. 1928 October**
Photographer: Dunshee, Carroll F.
Scope and Content Note
Rice Field Station, Biggs, California. Tank 13, top open, bottom sealed.

Box 65:442 800-B-b-80 **Studies on Use of Water by Rice. 1928 October**
Photographer: Dunshee, Carroll F.
Scope and Content Note
Rice Field Station, Biggs, Calif. Tank 13, top open bottom sealed.

Box 65:443 800-B-b-81 **Studies on Use of Water by Rice. 1928 October**
Photographer: Dunshee, Carroll F.
Scope and Content Note
Rice Field Station, Biggs, Cal. Tank 7, top and bottom sealed.

Box 65:444 800-B-b-82 **Studies on Use of Water by Rice. 1928 October**
Photographer: Dunshee, Carroll F.
Scope and Content Note
Rice Field Station, Biggs, California Tank 8, top and bottom open.

Box 65:445 800-B-b-83 (2 neg.) **Studies on Use of Water by Rice. Rice Field Station, Biggs, California. Fertilizer tanks. 1928 September 10**
Photographer: Dunshee, Carroll F.
Scope and Content Note

Box 65:446 800-B-b-84 **Studies on Use of Water by Rice. Rice Field Station, Biggs, California. Depth of water tanks. 1928 September 10**
Photographer: Dunshee, Carroll F.
Scope and Content Note

Box 65:447 800-B-b-85 **Studies on Use of Water by Rice. Rice Field Station, Biggs, California. Screened enclosure. 1928 September 10**
Photographer: Dunshee, Carroll F.
Scope and Content Note

Box 65:448 800-B-b-86 **Transpiration, evaporation, and seepage investigations with rice grown in tanks at Dos Palos, showing tanks before rice was transplanted. 1931 June 1**
Photographer: L.N.Brown
Scope and Content Note

Box 65:449 800-B-b-87 **Transpiration, evaporation, and seepage investigations with rice grown in tanks at Dos Palos showing tanks after transplanting. Rice has been sowed in plot but growth showing is water grass. 1931 June 9**
Photographer: L.N.Brown
Scope and Content Note

Box 65:450 800-B-b-88 **Transpiration, evaporation, and seepage investigations with rice grown in tanks at Dos Palos. View showing tank no. 1 after water has been drained from field. 1931 September**
Photographer: L.N.Brown
Scope and Content Note
Box 65:451 800-B-b-80 Transpiration, evaporation, and seepage investigations with rice grown in tanks at Dos Palos. View showing rice tanks after water was drained off of field. 1931 September
   Photographer: L.N. Brown
   Scope and Content Note

Box 65:452 800-B-c-1 "Slender Aster" - rice weeds 1922 August 10
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:453 800-B-c-2 Echinochloa - crus galli - Cortena 1922 August 1
   Photographer:
   Scope and Content Note

Box 65:454 800-B-c-3 Water plantain grows in open spaces in rice fields and in ditches. Not particularly harmful. 1922
   Photographer:
   Scope and Content Note

Box 65:455 800-B-c-4 (Echinochloa crusgalli) - Rice weeds 1922 September 15
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:456 800-B-c-5 "Slender Aster" - rice weeds. 1922 September 20
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:457 800-B-c-6 (Echinochloa - crus galli) rice weeds 1922 August
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:458 800-B-c-7 Umbrella plant (Cyperus difformis) - sometimes known as "annual sedge". This weed was very troublesome at Cortena and several other places in the rice area in 1922. It was exceptionally thick in places where the stand of rice was thin. Seldom grows over 18 inches high. Can probably be held in check by heavy seeding. Seed matures by Aug. 1. Not controlled by continuous submergence. undated
   Photographer:
   Scope and Content Note

Box 65:459 800-B-c-8 Sprangle top - Spalding Ranch - (rice weeds) 1922 June 26
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:460 800-B-c-9 Cat tail (Typha latifolia) - sometimes confused with "tule". This perennial plant is becoming a more serious pest each year. The plant grows from four to twelve feet high. Seed matures the latter part of September. Summer fallow has proven helpful as a means of control. undated
   Photographer: Dunshee, Carroll F.
   Scope and Content Note
Box 65:461 800-B-c-10 Crab grass (Synotherisma Sanguinalis) This is a common grass on ditch banks and eves. It grows one to two feet high. The seed matures the latter part of August. Not especially troublesome in the rice fields. undated
  Photographer: Dunshee, Carroll F.
  Scope and Content Note

Box 65:462 800-B-c-11 Echinochloa crus galli - Cortena undated
  Photographer: Dunshee, Carroll F.
  Scope and Content Note

Box 65:463 800-B-c-12 Spike rush, also known as wire grass, (Eleocharis palustris). Found in corners of checks, ditches, and fields not properly plowed. Grows twelve to eighteen inches high. Matures seed in July. Not controlled by continuous submergence. undated
  Photographer: Dunshee, Carroll F.
  Scope and Content Note

Box 65:464 800-B-c-13 Umbrella plant, perennial form (Cyperus virens). This form of the cyperus family is seldom harmful except in unplowed places near the rice fields. Grows from one to two feet high. The seed matures the latter part of August. Can be satisfactorily controlled by plowing. undated
  Photographer: Dunshee, Carroll F.
  Scope and Content Note

Box 65:465 800-B-c-14 Red-stem (Ammania coccinea). Found in rice fields generally where there is a thin stand of rice. Grows from six inches to two feet high. Various types mature seed from June 25 to October 25. Not controlled by continuous submergence. undated
  Photographer: Dunshee, Carroll F.
  Scope and Content Note

Box 65:466 800-B-c-15 Tules (Scirpus occidentalis). Not especially thick in rice fields. Often found in irrigation and rain ditches. Grows four to fifteen feet high. Seed matures latter part of August. Difficult to control although many growers have been successful with summer-fallow. undated
  Photographer: Dunshee, Carroll F.
  Scope and Content Note

Box 65:467 800-B-c-16 "Sprangle top" (Leptochloa fasicularis) in Rathbun Bros. & Eckles rice field. Rice seed germinated by intermittent flooding. undated
  Photographer: Dunshee, Carroll F.
  Scope and Content Note

Box 65:468 800-B-c-17 "Erigeron Canadensis" found in rice which have not been plowed and which have not been continuously submerged. Usually found growing out of the water on damp soil, as on levees, etc. undated
  Photographer: Dunshee, Carroll F.
  Scope and Content Note

Box 65:469 800-B-c-18 Arrowhead (Sagittaria latifolia) among rice plants submerged continuously to depth of 10 inches after broadcasting. Taken in Plot 60. undated
  Photographer: Dunshee, Carroll F.
  Scope and Content Note
Box 65:470  800-B-c-19 Jussiaea Californica - “California water weed” found in the rice fields growing in all depths of water. Not serious where there is a good stand of rice. undated
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:471  800-B-c-20 Smart weed (Polygonium lapathifolium). This weed is not particularly troublesome in the rice fields at present. It is often seen in the irrigation drain ditches. Grows about two feet high. Matures seed the latter part of August. undated
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:472  800-B-c-21 (Echinochloa crus-galli) - early maturing variety (about July 1). Worst pest in rice fields. undated
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:473  800-B-c-22 "Joing grass" in ditch at Cortena. 8-5-23. 1923 August 5
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:474  800-B-c-23 Sprangle top taken in Rathbun Bros. & Eckler rice field. Rice seed germinated by intermittent flooding. 1923 August 15
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:475  800-B-c-24 Jessica California - California water weed in rice field, Cortena 1924
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:476  800-B-c-25 Picture of joint grass (Raspalum distchum) 1923 September
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:477  800-B-c-26 View of intermediate maturing type of water grass - (Echinochloa crus galli) Cortena 1922
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:478  800-B-c-27 Joing grass (Paspalun distchum) 1923 September
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:479  800-B-c-29 View of late type or white water grass (Echinochloa crus-galli) 1923 September
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:480  800-B-c-30 Picture showing growth of sedge (Cyperus deformis) in rice field - Cortena. 1923 July
   Photographer: Dunshee, Carroll F.
   Scope and Content Note
Box 65:481  800-B-c-31 **Arrowhead (Sagittaria latifolia) in Cortena rice plots 1925**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:482  800-B-c-32 **Arrowhead (Sagittaria latifolia) in Cortena rice plots 1925**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:483  800-B-c-33 **Joint Grass (Paspalum distichum) in Cortena rice plots 1925**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:484  800-B-c-34 **Sedge (Cyperus difformis) in Cortena rice plots 1925**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:485  800-B-c-35 (2 neg.) **Water plantain (Alisima plantage) at Cortena undated**  
Photographer:  
Scope and Content Note

Box 65:486  800-B-c-36 (2 neg.) **Jussica Californica - California water weed - in rice plots at Cortena. 1925**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:487  800-B-c-37 (2 neg.) **White water grass control studies at Biggs Rice Field Station, 1927. Series at right of rice is 10 inches deep. 1927 August**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:488  800-B-c-38 **Water plantain (Alisima plantage) at Cortena 1925**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:489  800-B-c-39 (3 neg.) **A foul rice field west of Plainfield, Yolo County. Water was drained several times before the field was continuously submerged. 1927**  
Photographer:  
Scope and Content Note

Box 65:490  800-B-c-56 **Artichoke experiment, D. Conti Ranch, Castroville. Artichoke plants not ditched during winter of 1939-1940 on right. Ditched area on left. No negative. 1940 March 1**  
Photographer:  
Scope and Content Note

Box 65:491  800-B-e-1 **Weir and water register E.L. Adams rice field used in experiments - 1914-18 1916**  
Photographer: Adams, Frank  
Scope and Content Note  
Slide no 75H141
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<tr>
<th>Box 65:492</th>
<th>800-B-e-2</th>
<th>First Irrigation on Adams No. 2 Rice Field Biggs, California. Rice Duty of Water Investigations in Sacramento Valley, 1917. 1917 April 27</th>
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<td>Photographer: Hutchins, Wells A.</td>
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<td>Box 65:493</td>
<td>800-B-e-3</td>
<td>Submerged orifices and registers at Bruggman rice field intake 1924</td>
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<td>Photographer: Adams, Frank</td>
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<td>Box 65:494</td>
<td>800-B-e-4</td>
<td>Double 2-foot adjustable submerged orifices - measuring water to Jones rice field near Willows. 1924</td>
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<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<td>Box 65:495</td>
<td>800-B-e-5</td>
<td>Two-foot adjustable submerged orifice on Bruggman drain, near Maxwell. 1924</td>
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<td>Photographer: Adams, Frank</td>
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<td>Box 65:496</td>
<td>800-B-e-6</td>
<td>Water register and weir on drain from Husted rice field, near Williams, California. 1924</td>
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<td>Photographer: Wadsworth, H.A.</td>
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<td>Scope and Content Note</td>
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<td>Box 65:497</td>
<td>800-B-e-7</td>
<td>8-inch rectangular weir on drain from Minton rice field - east of Willows. 1924</td>
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<td>Photographer:</td>
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<td>Scope and Content Note</td>
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<td>Box 65:498</td>
<td>800-B-e-8</td>
<td>Two-foot adjustable submerged orifice on intake to Husted rice field near Willows. 1924</td>
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<td>Photographer: Adams, Frank</td>
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<td>Box 65:499</td>
<td>800-B-e-9</td>
<td>Weir and register at drain from Husted rice field, near Williams 1924</td>
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<td>Photographer: Wadsworth, H.A.</td>
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<td>Scope and Content Note</td>
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<td>Box 65:500</td>
<td>800-B-e-10</td>
<td>Double 2-foot adjustable submerged orifice on Jones rice field near Willows. 1924</td>
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<td>Photographer: Adams, Frank</td>
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<td>Box 65:501</td>
<td>800-B-e-11</td>
<td>Two-foot adjustable submerged orifice on Minton intake east of Willows. 1924</td>
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<td>Photographer: Adams, Frank</td>
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<td>Box 65:502</td>
<td>800-B-e-12</td>
<td>Two-foot adjustable submerged orifice on Geopf intake - Minor farm near Willows. 1924 Summer</td>
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<td>Photographer: Adams, Frank</td>
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Box 65:503
800-B-e-13 Two-foot adjustable submerged orifice on intake to Bruggman rice field, near Maxwell, California 1934
   Photographer: Adams, Frank
   Scope and Content Note

Box 65:504
800-B-e-14 Two-foot rectangular weir on Jones drain, near Willows, Calif. 1924
   Photographer: Adams, Frank
   Scope and Content Note

Box 65:505
800-B-e-15 (No neg) Weir and Water Register on Dodge rice field. Butte County, Cal. 1916 September
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 65:506
800-B-e-16 Weir measuring drainage from Yarborough rice field, Maxwell. 1924 June
   Photographer: Wadsworth, H.A.
   Scope and Content Note

Box 65:507
800-B-e-17 Weir measuring drainage from Bruggman rice field east of Maxwell. 1924 June
   Photographer: Wadsworth, H.A.
   Scope and Content Note

Box 65:508
800-B-e-18 Submerged orifice measuring water at intake to Yarborough rice field 1924 June
   Photographer: Wadsworth, H.A.
   Scope and Content Note

Box 65:509
800-B-e-19 Measuring drainage from Rathbun rice field, northeast of Williams, Calif. 1924
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:510
800-B-e-20 Weir on drain, Anderson rice field, south of Cortena 1925
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:511
800-B-e-21 (2 neg.) Two foot submerged orifice at intake to Anderson field, Cortena 1925
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:512
800-B-e-22 Rectangular weir and register measuring water to E.L. Adams rice field. 1924
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:513
800-B-z-1 A Rice Field Near Biggs, California, During Irrigation. 1914
   Photographer: Adams, Frank
   Scope and Content Note
   The line of one of the levees can be plainly seen in the picture.
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<th>Box 65:514</th>
<th>800-B-z-2 Rice Field near Gridley, California. - Badly Infested with Weeds. 1915</th>
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<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<td>Box 65:515</td>
<td>800-B-z-3 Rice Binder, Madison, California. 1915 November 1</td>
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<td>Photographer: Hutchins, Wells A.</td>
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<td>Scope and Content Note</td>
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<td>Box 65:516</td>
<td>800-B-z-4 H.C. Malone Rice Field, Colusa, Cal. 1915 June 4</td>
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<td>Photographer: Hutchins, Wells A.</td>
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<td>Box 65:517</td>
<td>800-B-z-5 Flooding Land to Germinate Seed of Water Grass Biggs, California. 1916 August</td>
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<td>Photographer: Robertson, Ralph D.</td>
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<td>Scope and Content Note</td>
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<td>Box 65:518</td>
<td>800-B-z-6 Harvesting Rice on Baker Tract, Biggs, California. 1916 October 25</td>
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<td>Photographer: Robertson, Ralph D.</td>
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<td>Scope and Content Note</td>
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<td>Box 65:519</td>
<td>800-B-z-7 Effect of Excessive Grading of Land on Growth of Rice, Biggs, Cal. 1916 October</td>
</tr>
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<td></td>
<td>Photographer: 1916 October</td>
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<td>Scope and Content Note</td>
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<td>Rank growth of straw with blank heads on area filled in. Rice in portion of field scraped is stunted in growth.</td>
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<td>Box 65:520</td>
<td>800-B-z-8 Threshing Rice on Phelan Ranch, Butte County, California. 1916 October 31</td>
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<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
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<td>Scope and Content Note</td>
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<td>Box 65:521</td>
<td>800-B-z-9 Threshing Rice on Phelan Ranch, Butte County California. 1916 October 31</td>
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<td>Photographer: Robertson, Ralph D.</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box 65:522</td>
<td>800-B-z-10 Levee and levee Gate, Evans Rice Field, Rice Duty of Water Investigations in Sacramento Valley, 1917. 1917 August 8</td>
</tr>
<tr>
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<td>Photographer: Hutchins, Wells A.</td>
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<td>Scope and Content Note</td>
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<tr>
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<td>The rice shown in this picture is in its first season and is consequently very clean.</td>
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<td>Box 65:523</td>
<td>800-B-z-11 Harvesting Rice near Gridley, California. 1917 November</td>
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<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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800-B-z-12 Rice field west of Biggs during early irrigation prior to submergence. 1918 May 31
   Photographer: Adams, Frank
   Scope and Content Note
   The stand is shown drilled in the immediate foreground. This is one of the several fields farmed in 1918 by E.L. Adams, formerly of the Rice Experiment Station at Biggs, and shows some of the best preparation and levee construction to be found in Sacramento Valley.

800-B-z-13 Berry and Adams Rice Field near Marysville. 1918 November
   Photographer: Adams, Frank
   Scope and Content Note

800-B-z-14 Plat in Norman Experimental Rice Field. 1918 November
   Photographer: Adams, Frank
   Scope and Content Note

800-B-z-15 Newly prepared Rice Levee near Nelson. 1920 March
   Photographer: Adams, Frank
   Scope and Content Note

800-B-z-16 Newly prepared Rice Levee near Nelson. 1920 March
   Photographer: Adams, Frank
   Scope and Content Note

800-B-z-17 Newly prepared rice check receiving first flooding after seeding east of Maxwell. 1920 May
   Photographer: Adams, Frank
   Scope and Content Note

800-B-z-18 View of Payne and Dozier ranch, near Princeton, Calif. 1921 September
   Photographer: Adams, Frank
   Scope and Content Note
   This field was submerged continuously from time of seeding. Note freedom of foul growth between levees.

800-B-z-19 Rice field at U.S. Rice Field Station, Biggs, Calif. One-fifth acre plot at U.S. Rice Field Station Biggs on which submergence was begun 30 days after emergence of plants. undated
   Photographer: 
   Scope and Content Note

800-B-z-20 View of rice field just before maturity of crop. Note drooping of heads. undated
   Photographer: 
   Scope and Content Note

800-B-z-21 Rice Field, Marysville, Calif. (Owned by F. Adams) undated
   Photographer: 
   Scope and Content Note
Box 65:534 800-B-z-22 **Harvesting rice on Baker Field, near Biggs October 26**
   Photographer: Robertson, Ralph D.
   Scope and Content Note

Box 65:535 800-B-z-23 **Drooping Heads in a Rice Field near Biggs, at the Time Water was Turned Off. Background purposely out of focus. undated**
   Photographer: Adams, Frank
   Scope and Content Note

Box 65:536 800-B-z-24 **Rice Field Near Biggs, California, Showing Drooping of Heads, at the Time Irrigation Water is Turned Off. undated**
   Photographer: Adams, Frank
   Scope and Content Note

Box 65:537 800-B-z-25 **Rice Field under Irrigation, near Gridley, California. undated**
   Photographer: Adams, Frank
   Scope and Content Note
   The lines of the levees are very clearly shown. This picture was taken before the rice had begun to head out.

Box 65:538 800-B-z-26 **Section of Experimental Irrigation Plat, Rice Experiment Station, Biggs, Cal. undated**
   Photographer: Adams, Frank
   Scope and Content Note

Box 65:539 800-B-z-27 **A Sacramento Valley rice field showing drooping of heads at the ripening period when irrigation water is drawn off. undated**
   Photographer:
   Scope and Content Note

Box 65:540 800-B-z-28 **Wild ducks - Spaulding Ranch 1919**
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:541 800-B-z-29 **Submerging rice checks - Jones rice field, near Willows. undated**
   Photographer: Adams, Frank
   Scope and Content Note

Box 65:542 800-B-z-30 **Group of rice growers at University of California temporary rice experiment station. 1922 September 29**
   Photographer:
   Scope and Content Note

Box 65:543 800-B-z-31 **Group of rice growers at Univ. of Calif. temporary Rice Exp. Sta., Cortena, Calif. Listening to Professor Charles F. Shaw. 1922 September 29**
   Photographer:
   Scope and Content Note

Box 65:544 800-B-z-32 **Group of rice growers at Cortena 1922 September 29**
   Photographer:
   Scope and Content Note
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<th>Box 65:545</th>
<th>800-B-z-33 Group of rice growers at Cortena. 1922 September 29</th>
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<tbody>
<tr>
<td></td>
<td>Photographer:</td>
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<tr>
<th>Box 65:546</th>
<th>800-B-z-34 Group of rice growers at University of California temporary 1922 September 29</th>
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<td>Photographer:</td>
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<tr>
<th>Box 65:547</th>
<th>800-B-z-35 Group of rice growers around rice tanks at Cortena 1923 September</th>
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<tbody>
<tr>
<td></td>
<td>Photographer:</td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<th>Box 65:548</th>
<th>800-B-z-36 Untitled undated</th>
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<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 65:549</th>
<th>800-B-z-37 (neg broken) Binder and team - Spalding Ranch rice field. 1919</th>
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<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<th>Box 65:550</th>
<th>800-B-z-38 Variation in striping or rice leaves. Leaf on left has normal green color. 1927 August 15</th>
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<tbody>
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<td></td>
<td>Photographer: Dunshee, Carroll F.</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 65:551</th>
<th>800-B-z-39 F.P.Wray rice field. New land-Schmeiser Ranch west of Davis. 1927 August 9</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: Dunshee, Carroll F.</td>
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<td>Scope and Content Note</td>
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<td></td>
<td>R.P.Wray rice field. New land, Scheiser Ranch west of Davis</td>
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<th>Box 65:552</th>
<th>800-B-z-40 Foul rice field west of Plainfield, Yolo County. 1927 August 9</th>
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<tr>
<td></td>
<td>Photographer: Dunshee, Carroll F.</td>
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<td></td>
<td>Scope and Content Note</td>
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<td></td>
<td>Foul rice field west of Plainfield, Yolo Co. Field drained several times prior to continuous submergence.</td>
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<th>Box 65:553</th>
<th>800-B-z-41 (2 neg.) Foul rice field west of Plainfield, Yolo County 1927 August 9</th>
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<td></td>
<td>Photographer: Dunshee, Carroll F.</td>
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<th>Box 65:554</th>
<th>800-B-z-42 General Views. Rice field east of Sutter By-Pass. 1928 May</th>
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<td></td>
<td>Photographer: Dunshee, Carroll F.</td>
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<td>Scope and Content Note</td>
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<th>Box 65:555</th>
<th>800-B-z-43 (2 neg.) General Views. Rice field east of Sutter By-Pass. undated</th>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 65:556</th>
<th>800-B-z-44 General views. Rice field west of Williams. 1926 September</th>
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<tr>
<td></td>
<td>Photographer: Dunshee, Carroll F.</td>
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<td>Scope and Content Note</td>
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Box 65:557 800-B-z-45 General views. Rice Field west of Williams, Lambert Field. 1925
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:558 800-B-z-46 General Views. Lifting water for rice irrigation, Williams Extension, Glenn-Colusa Irrigation District. 1925
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:559 800-B-z-47 General Views. Rice Experiment Station, Cortena, California. Reeding Shed. (Cost, $325.00) 1928 September
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:560 800-B-z-48 General Views. Rice Experiment Station, Cortena, California, Rice meeting, September 14, 1928. 1928 August 14
   Photographer: Adams, Frank
   Scope and Content Note

Box 65:561 800-B-z-49 General Views. Rice Experiment Station, Cortena, California. Rice meeting, Sept. 14, 1928. 1929 August 14
   Photographer: Adams, Frank
   Scope and Content Note

Box 65:562 800-B-z-50 (2 neg.) General Views. Sutter Basin Rice Field. Note absence of weeds. 1927 September
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:563 800-B-z-51 General Views. Foul rice field near Plainfield. 1927 July
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:564 800-B-z-52 General Views. 1928 April
   Photographer: Dunshee, Carroll F.
   Scope and Content Note
   Rice Experiment Station, Cortena, Cal. Soil at Cortena after plowing. Cattail growth turned up to sun.

Box 65:565 800-B-z-53 General Views. Rice Experiment Station, Cortena, Calif. 1928. Effect of 3 Disc and Drag. undated
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:566 800-B-z-54 General Views. Rice Field Station, Biggs, Calif. 1928. "Crowder" for making rice levees. 1928 April
   Photographer: Dunshee, Carroll F.
   Scope and Content Note
<p>| Box 65:567 | 800-B-z-55 | General Views. Rice Field Station, Biggs, Calif. &quot;Crowder&quot; for making rice levees. 1928 April |
| Box 65:568 | 800-B-z-56 | Rice field showing levees, Gucy Jones, Willows, Calif. 1925 July |
| Box 65:569 | 800-B-z-57 | Broadcasting rice on flooded land near Nelson, Calif. 1928 May |
| Box 65:570 | 800-B-z-58 | Binding at Cortena. 1928 October |
| Box 65:571 | 800-B-z-59 | Binding at Cortena. 1928 October |
| Box 65:572 | 800-B-z-60 | Discing and dragging, Cortena. 1928 April |
| Box 65:573 | 800-B-z-61 | Rice in shock, Cortena. 1928 |
| Box 65:574 | 800-B-z-62 | Threshing rice, Cortena. 1928 October |
| Box 65:575 | 800-B-z-63 | Binding at Cortena. Plot 1. 1928 October |
| Box 65:576 | 800-B-z-64 | Plowing at Cortena. 1928 April |
| Box 65:577 | 800-B-z-65 | Rice. Plowing at Cortena. 1928 April |
| Box 65:578 | 800-B-z-66 | Rice. Plowing at Cortena. 1928 April |</p>
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<th>Box</th>
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<td>65:580</td>
<td>800-B-z-68</td>
<td>Sutter Basin rice. 1928 September 17</td>
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<td>Dunshee, Carroll F.</td>
<td>Slide No 75H137</td>
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<td>65:581</td>
<td>800-B-z-69</td>
<td>Building levee in rice field. 1928</td>
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<td>Dunshee, Carroll F.</td>
<td>Slide No 75H138</td>
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<td>65:582</td>
<td>800-B-z-70</td>
<td>Rice irrigation near Butte City in east side of Sacramento Valley 1929</td>
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<td>Huberty, Martin R.</td>
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<td>65:583</td>
<td>800-B-z-71</td>
<td>Garland rice field in &quot;boot&quot;, Willows, Calif. 1916</td>
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<td>65:584</td>
<td>800-B-z-72</td>
<td>Harvesting rice, Willows, Calif. 1916</td>
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<tr>
<td>65:585</td>
<td>800-B-z-73</td>
<td>Rice field showing excellent stand of rice undated</td>
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<td>Dunshee, Carroll F.</td>
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<tr>
<td>65:586</td>
<td>800-B-z-74</td>
<td>Rice field showing excellent stand of rice undated</td>
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<td>Dunshee, Carroll F.</td>
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<td>65:587</td>
<td>800-B-z-75</td>
<td>Harvesting rice, Nicholaus, Calif. 1916</td>
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<td>Robertson, Ralph D.</td>
<td>Slide No 75H135</td>
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<td>65:588</td>
<td>800-B-z-76</td>
<td>Rice harvest 1916</td>
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<td>Robertson, Ralph D.</td>
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<td>65:589</td>
<td>800-B-z-77</td>
<td>Rice threshing on Pholon Ranch 1916</td>
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<td>Robertson, Ralph D.</td>
<td>Slide No 75H132</td>
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<td>65:590</td>
<td>800-B-z-78</td>
<td>Threshing rice on Spaulding Ranch 1919</td>
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*Inventory of the Department of Irrigation Photographs*
Box 65:591  800-B-z-79 (No neg.) **Broadcasting rice, South of Durham, Calif. on E.L. Adams’ place**
1928 April
   Photographer: Huberty, Martin R.
   Scope and Content Note

Box 65:592  800-B-z-80 **Effect of spotted soil on yield. Plants taken from same plot**
1919
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:593  800-B-z-81 **Untitled**
1919
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:594  800-C-a-1 **Trench and apparatus for study of water requirements of Cotton. 1927**
March 7
   Photographer: Adams, Frank
   Scope and Content Note
   U.S. Cotton Experiment Station, Shafter, Calif.

Box 65:595  800-C-a-2 **Trench and apparatus for study of water requirements of cotton. 1927**
March 7
   Photographer: Adams, Frank
   Scope and Content Note
   U.S. Cotton Experiment Station, Shafter, California.

Box 65:596  800-C-a-3 **Trench Installation. U.S. Cotton Experiment Station, Shafter, California.**
1927 April
   Photographer: Beckett, Samuel H.
   Scope and Content Note

Box 65:597  800-C-a-4 **Tank Installation. 1927 September**
   Photographer: Dunshee, Carroll F.
   Scope and Content Note
   U.S. Cotton Experiment Station, Shafter, California.

Box 65:598  800-C-a-5 **Tank Installation, U.S. Cotton Experiment Station, Shafter, Cal. 1928 July 10**
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:599  800-C-a-6 **Tank Installation. U.S. Cotton Experiment Station, Shafter, California. 1928 July 10**
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 65:600  800-C-a-7 **Tank Installation. U.S. Cotton Experiment Station, Shafter, California. 1928 July 10**
   Photographer: Dunshee, Carroll F.
   Scope and Content Note
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<th>Box 65:601</th>
<th>800-C-a-8 Irrigation in place. U.S. Cotton Experiment Station, Shafter, California. 1927 April</th>
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<tr>
<td>Photographer: Dunshee, Carroll F.</td>
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<td>Scope and Content Note</td>
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<td>Box 65:602</td>
<td>800-C-a-9 Cotton. Underground irrigation for tanks. U.S. Cotton Experiment Station, Shafter, California. 1927 May</td>
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<td>Photographer: Dunshee, Carroll F.</td>
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<td>Scope and Content Note</td>
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<td>Box 65:603</td>
<td>800-C-a-10 Cotton. Tank #1. Soil moisture studies. 1927 August 1</td>
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<tr>
<td>Photographer: Dunshee, Carroll F.</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Tank #1 continuously moist. Soil moisture never allowed to reach wilting point. U.S. Cotton Experiment Station, Shafter, California.</td>
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<td>Box 65:604</td>
<td>800-C-a-10a Cotton. Soil moisture studies. Tank #1. Soil moisture kept above wilting point all season. 1927 September</td>
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<tr>
<td>Photographer: Dunshee, Carroll F.</td>
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<tr>
<td>Scope and Content Note</td>
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<td>U.S. Cotton Experiment Station, Shafter, California.</td>
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<td>Box 65:605</td>
<td>800-C-a-11 Cotton. Tank #2. Plants not irrigated until they showed wilt at 4:00 p.m. Soil moisture studies. 1927 September</td>
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<tr>
<td>Photographer: Dunshee, Carroll F.</td>
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<td>Scope and Content Note</td>
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<td>U.S. Cotton Experiment Station, Shafter, California.</td>
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<td>Box 65:606</td>
<td>800-C-a-12 Cotton. Tank #2. Plants not irrigated until they wilted at 4:00 p.m. Soil moisture studies. 1927 September 1</td>
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<td>Photographer: Dunshee, Carroll F.</td>
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<td>Scope and Content Note</td>
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<td>Box 65:607</td>
<td>800-C-a-13 Cotton. Tank #3. Plants not irrigated until they wilted at 9:00 a.m. Soil moisture studies. undated</td>
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<td>Photographer: Dunshee, Carroll F.</td>
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<td>Scope and Content Note</td>
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<td>U.S. Cotton Experiment Station, Shafter, California.</td>
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<td>Box 65:608</td>
<td>800-C-a-14 Cotton. Tank #3. Cotton was not irrigated until it showed wilt at 9:00 a.m. Soil moisture studies. 1927 August</td>
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<tr>
<td>Photographer: Dunshee, Carroll F.</td>
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<td>Scope and Content Note</td>
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<td>U.S. Cotton Experiment Station, Shafter, California.</td>
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<td>Box 65:609</td>
<td>800-C-a-15 Cotton. Tank #4. Soil moisture never allowed to reach the wilting point. 1927 September</td>
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<td>Photographer: Dunshee, Carroll F.</td>
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<tr>
<td>Scope and Content Note</td>
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<tr>
<td>U.S. Cotton Experiment Station, Shafter, California.</td>
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</table>
Box 65:610  800-C-a-16  **Cotton. Plants not irrigated until they wilted at 4:00 p.m. Soil moisture studies. 1927 September**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note  
U.S. Cotton Experiment Station, Shafter, California.

Box 65:611  800-C-a-17  **Cotton. Tank #7. U.S. Cotton Experiment Station, Shafter, Cal. Soil moisture studies. 1927**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:612  800-C-a-18  **Cotton. Tank #7. Studies on Soil moisture. 1928 July 10**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:613  800-C-a-19  **Cotton. Tank #8. U.S. Cotton Experiment Station, Shafter, Cal. Soil moisture studies. 1927 September**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:614  800-C-a-20  **Cotton. Tank #9. U.S. Cotton Experiment Station, Shafter. Cal. Soil moisture studies. 1927 September**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note

Box 65:615  800-C-a-21  **Cotton. Tank #9. Soil moisture studies. 1928 July 10**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note  
U.S. Cotton Experiment Station, Shafter, California. Cotton irrigated when plant wilted at 9:00 a.m. Next irrigation on July 15. This picture taken at 12:00 noon. (Tank #9)

Box 65:616  800-C-a-22  **Cotton. Tank #11. Soil moisture studies. 1928 July 10**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note  
U.S. Cotton Experiment Station, Shafter, California. Plants not irrigated until they wilted at 4:00 p.m. (Tank 11)

Box 65:617  800-C-a-23  **Cotton. Tank #14. Soil Moisture studies. 1928 July 10**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note  
U.S. Cotton Experiment Station, Shafter, California. Irrigated when plant wilted at 4:00 p.m. Next irrigation on July 12. This picture taken at 12:00 noon. (Tank #14)

Box 65:618  800-C-a-24  **Cotton. Water table studies. Tank #1. U.S. Cotton Experiment Station, Shafter, California. 1928**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note
Box 65:619  800-C-a-25  **Cotton. Tank #2. Water table studies. 1928 July 28**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note  
U.S. Cotton Experiment Station, Shafter, California. Water table maintained at 30 inches below surface. Tank #2.

Box 65:620  800-C-a-26  **Cotton. Water table studies. 1927 September 10**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note  
U.S. Cotton Experiment Station, Shafter, California. Tank #10, cotton plants growing in tank in which water table has been maintained 30 inches below soil surface throughout season.

Box 65:621  800-C-a-27  **Cotton. Water table studies. 1927 September 1**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note  
U.S. Cotton Experiment Station, Shafter, California. Tank #7. Cotton growing in tank in which water table was maintained 30 inches below soil surface.

Box 65:622  800-C-a-28  **Cotton. Water table studies. 1928 September 1**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note  
U.S. Cotton Experiment Station, Shafter, California. Tank #8. 30-inch water table.

Box 65:623  800-C-a-29  **Cotton. Water table studies. 1927 September 1**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note  
U.S. Cotton Experiment Station, Shafter, California. Tank #9. 30-inch water table.

Box 65:624  800-C-a-30  **Cotton. Water table studies. 1927 September 1**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note  

Box 65:625  800-C-a-31  **Cotton. Water table studies. 1927 September**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note  
U.S. Cotton Experiment Station, Shafter, California. Tank #12. 30-inch water table.

Box 65:626  800-C-a-32  **Cotton. Water table studies. 1927 September**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note  
U.S. Cotton Experiment Station, Shafter, California. Tank #12. 30-inch water table tank.

Box 65:627  800-C-a-33  **View of cotton grown in tanks at U.S. Cotton Field Station, Shafter, showing weighing device for tanks and atmometers. 1930**  
Photographer: Schultz, L.C.  
Scope and Content Note  

Box 65:628  800-C-a-34  **View of cotton grown in tanks, U.S. Field Station, Shafter, Calif. 1927**  
Photographer: Dunshee, Carroll F.  
Scope and Content Note
Box 65:629  800-C-a-35 Water table studies with cotton in tanks, U.S. Cotton Field Station, Shafter, Calif. 1927
Photographer: Dunshee, Carroll F.
Scope and Content Note

Box 65:630  800-C-b-1 Measuring irrigation water applied to cotton plots. 20" weir. U.S. Cotton Experiment Station, Shafter, California. 1926 August
Photographer: Dunshee, Carroll F.
Scope and Content Note

Box 65:631  800-C-b-2 Cotton. Looking across plots at Shafter. U.S. Cotton Experiment Station, Shafter, Cal. 1927 July
Photographer: Dunshee, Carroll F.
Scope and Content Note

Box 65:632  800-C-b-3 Cotton. View across station from irrigation plots. 1927 July
Photographer: Dunshee, Carroll F.
Scope and Content Note
U.S. Cotton Experiment Station, Shafter, Cal.

Box 65:633  800-C-b-4 Cotton. View of station, U.S. Cotton Experiment Station, Shafter. 1927 September
Photographer: Dunshee, Carroll F.
Scope and Content Note

Box 65:634  800-C-b-5 Cotton plots. U.S. Cotton Experiment Station, Shafter, Cal. 1927 September
Photographer: Dunshee, Carroll F.
Scope and Content Note

Box 65:635  800-C-b-6 Cotton. Lateral supplying cotton plots. 1928 July 10
Photographer: Dunshee, Carroll F.
Scope and Content Note
U.S. Cotton Experiment Station, Shafter, California.

Box 65:636  800-C-b-7 General view of cotton plots used in irrigation investigation at U.S. Cotton Field Station, Shafter, Calif. 1930
Photographer: Schultz, L.C.
Scope and Content Note

Box 65:637  800-C-b-8 Cotton growing in plot experiments, U.S. Cotton Field Station, Shafter. 1930
Photographer: Schultz, L.C.
Scope and Content Note

Box 65:638  800-C-b-9 Roguing cotton plants at U.S. Cotton Field Station, Shafter, Calif. 1930
Photographer: Schultz, L.C.
Scope and Content Note

Box 65:639  800-C-b-10 Applying water to a portion of the irrigation field plots, U.S. Cotton Field Station, Shafter. 1930
Photographer: Schultz, L.C.
Scope and Content Note
| Box 66:1 | 800-C-c-1 **Kern Lake Cotton Field. (J.S. Townsend)** 1927 August 29  
Photographer: Camp, W.B.  
Scope and Content Note |
| Box 66:2 | 800-C-c-2 **Kern Lake Cotton Field.** 1927 September  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 66:3 | 800-C-c-3 **Kern Lake Cotton Field. W.B. Camp.** 1927 September  
Photographer: Dunshee, Carroll F.  
Scope and Content Note |
| Box 66:4 | 800-C-c-4 **Cotton field experiment showing growth of plants at time of second irrigation with canal water. Biancucci tract, Firebaugh.** 1931 July 14  
Photographer: Schultz, L.C.  
Scope and Content Note |
| Box 66:5 | 800-C-c-5 **Cotton field experiment showing condition of crop on July 14, 1931. Irrigated with well water. Biancucci tract, Firebaugh.** 1937 July 14  
Photographer: Schultz, L.C.  
Scope and Content Note |
| Box 66:6 | 800-C-c-6 **Cotton field experiment showing condition of crop on July 16, 1931. Irrigated with well water. Biancucci tract, Firebaugh.** 1931 July 16  
Photographer: Schultz, L.C.  
Scope and Content Note |
| Box 66:7 | 800-C-c-7 **Cotton field experiment showing condition of crop on July 14. Irrigated with canal water. Hotchkiss ranch, Firebaugh.** 1931 July 14  
Photographer: Schultz, L.C.  
Scope and Content Note |
| Box 66:8 | 800-C-c-8 **Cotton field experiment showing condition of crop on July 14. Irrigated with well water. Hotchkiss ranch, Firebaugh.** 1931 July 14  
Photographer: Schultz, L.C.  
Scope and Content Note |
| Box 66:9 | 800-C-c-9 **Cotton field experiment showing condition of crop on July 13. Irrigated with well water. Fawcett area, Los Banos.** 1931 July 13  
Photographer: Schultz, L.C.  
Scope and Content Note |
| Box 66:10 | 800-C-c-10 **Cotton field experiment showing measurement of water for first irrigation at Fawcett ranch. Typical installation.** 1931 June 18  
Photographer: Schultz, L.C.  
Scope and Content Note |
| Box 66:11 | 800-C-c-11 **Cotton field experiment showing conditions of crop on August 19. Irrigated with well water. Fawcett area, Los Banos.** 1931 August 19  
Photographer: Schultz, L.C.  
Scope and Content Note |
| Box 66:12 | 800-C-c-12 | Cotton field experiment, showing condition of crop on August 19. Irrigated with well water. McClarren area, Los Banos. 1931 August 19  
Photographer: Schultz, L.C.  
Scope and Content Note |
| Box 66:13 | 800-C-c-13 | Cotton field experiment showing condition of crop on August 24. Irrigated with canal water. Biancucci area, Firebaugh. 1931 August 24  
Photographer: Schultz, L.C.  
Scope and Content Note |
| Box 66:14 | 800-C-c-14 | Cotton field experiment showing condition of crop on August 19. Irrigated with well water. Biancucci area, Firebaugh. 1931 August 19  
Photographer: Schultz, L.C.  
Scope and Content Note |
| Box 66:15 | 800-C-c-15 | Cotton field experiment showing condition of crop on August 19. Irrigated with canal water. Hotchkiss area, Firebaugh. 1931 August 19  
Photographer: Schultz, L.C.  
Scope and Content Note |
| Box 66:16 | 800-C-c-16 | Cotton field experiment showing condition of crop on August 19. Irrigated with well water. Hotchkiss area, Firebaugh. 1931 August 19  
Photographer: Schultz, L.C.  
Scope and Content Note |
| Box 66:17 | 800-C-c-17 | View showing contrast in growth of cotton area adjacent to the Fawcett area south of Los Banos in West side of San Joaquin Valley. 1931 September  
Photographer: Schultz, L.C.  
Scope and Content Note  
High cotton on right growing at ends of rows where water backed up; low cotton on left growing further up rows where grade was too steep. Small cotton is 12 to 18 inches high with much bare ground showing. |
| Box 66:18 | 800-C-c-18 | General view showing condition of cotton grown on Fawcett area, south of Los Banos on the west side of San Joaquin in Valley. 1931 September  
Photographer: Schultz, L.C.  
Scope and Content Note  
Note the extensive weed growth. The great contrast in growth on this area is plainly seen. The lighter area in the near background is short cotton fully matured. This is shown better in picture 800-C-c-19. The darker parts of the picture show the greener cotton. |
| Box 66:19 | 800-C-c-19 | The Fawcett area as seen from the opposite end from which picture 800-C-c-18 was taken. 1931 September  
Photographer: Schultz, L.C.  
Scope and Content Note  
Note the small growth generally and the extensive weed growth. The darker areas in the background are those viewed in the foreground of preceding picture. |
| Box 66:20 | 800-C-c-20 | View showing extent of cotton growth by late September planted on very poor land. 1931 September  
Photographer: Schultz, L.C.  
Scope and Content Note  
Was pre-irrigated, planted and chopped normally, and had one irrigation. Part of cotton field on Hotchkiss ranch in the Firebaugh subdivision. |
Box 66:21 800-C-c-21 **View showing close-up of Hotchkiss ranch, cotton field shown in picture 800-C-c-20. 1931 September**

Photographer: Schultz, L.C.

Scope and Content Note
Note mature cotton with each plant averaging about 1 1/2 bolls.

Box 66:22 800-C-c-22 **General view of cotton plants on Hotchkiss area irrigated by well water. 1931**

Photographer: Schultz, L.C.

Scope and Content Note
Note uniformity but smallness of stand. Firebaugh, Calif.

Box 66:23 800-C-c-23 **Showing close-up of cotton plants on Hotchkiss area, irrigated from well. 1931**

Photographer: Schultz, L.C.

Scope and Content Note
Note the bare appearance of the top parts of the plants, the prematurely forced open bolls, and the general condition fo the soil. The soil is of the heavy clay type, but on drying feels porous and light, which presumably is an effect of the long continued use of saline well water. Firebaugh, Calif.

Box 66:24 800-C-c-24 **General view of the plants on the Hotchkiss area irrigated by canal water. 1931 September**

Photographer: Schultz, L.C.

Scope and Content Note
Note the general appearance of uniformity over the area, Firebaugh, Calif.

Box 66:25 800-C-c-25 **Close-up view of cotton plants on the Hotchkiss area, irrigated by canal water, Firebaugh, California. 1931 September 29**

Photographer: Schultz, L.C.

Scope and Content Note
Note the extensive new leaf growth on tops of plants, lack of top crop bolls, prematurely forced open bolls, and general lack of cracking of surface soil. Plants are about 2 feet high.

Box 66:26 800-C-c-26 **View showing general condition of cotton crop on the McClarren area. 1931**

Photographer: Schultz, L.C.

Scope and Content Note
Crop planted May 2, 1931, after being pre-irrigated. It was irrigated on June 23 to 29th, and on July 22. Soil is clay loam type, fairly uniform, becoming sandy in the 5th and 6th foot. South of Los Banos.

Box 66:27 800-C-c-27 **General view of cotton plants on Biancucci area, Firebaugh, irrigated with well water. 1931 September 29**

Photographer: Schultz, L.C.

Scope and Content Note
Note the generally uniform height of the plants and the matted condition existing between the rows.
Box 66:28  800-C-c-28 Close-view of cotton plants, Biancucci area, irrigated by well water. 1931 September 29
Photographer: Schultz, L.C.
Scope and Content Note
Note generally prostrate nature and how the overhanging top parts of the plants are closing up the space between the rows. The heavy set of top crop bolls is very apparent. Cracked condition of the ground can also be seen.

Box 66:29  800-C-c-29 General view showing cotton field, Biancucci area, irrigated by canal water 1931 September 29
Photographer: Schultz, L.C.
Scope and Content Note

Box 66:30  800-C-c-30 Close-up view of cotton plants on the Biancucci area, irrigated by canal water 1931 September 29
Photographer: Schultz, L.C.
Scope and Content Note
Note the large amount of small terminal leaf growth, relatively large number of flowers, general lack of top crop bolls, and the moderate amount of cracking of the surface soil

Box 66:31  800-C-c-31 View showing effect of not irrigating cotton plants after the first of August. 1931 September 24
Photographer: Schultz, L.C.
Scope and Content Note
Note lack of top crop and naked nature of plants. Part of a cotton field on the Stiendorf ranch, west side San Joaquin Valley.

Box 66:32  800-C-c-32 View showing typical soil cracks as seen on adobe soils that crack badly. 1931 September
Photographer: Schultz, L.C.
Scope and Content Note
Stiendorf Ranch, West side San Joaquin Valley. The cotton boll and leaves lying on the ground give an idea of the dimensions of these cracks. The widest measured about 2 1/4 inches. One can look down into the cracks about 10 or 12 inches.

Box 66:33  800-C-c-33 View showing nature and depth of cracks below soil surface in cotton field. 1931 September 21
Photographer: Schultz, L.C.
Scope and Content Note
McLarren ranch south of Los Banos. Depth of hole is a little less than 2 feet. Note pruned ends of roots in cracks and also how many roots are able to gap cracks.

Box 66:34  800-C-c-34 Surface view of soil cracks on cotton field on Biancucci area, canal irrigated. This is heavy soil (Panoche adobe). Narrow furrows for irrigation were used, less than 12 inches wide. Some of the cracked portion is no doubt the washed-in part of the furrow. 1931 September 17
Photographer: Schultz, L.C.
Scope and Content Note
Box 66:35  800-C-c-35 View of area shown in picture no. 800-C-c-34, Biancucci cotton field, canal irrigated. Cracks were about 3 inches deep. Below this depth the earth was solid and moist and on close scrutiny it was seen to be filled with tiny, white living rootlets which must have been in contact with larger lateral roots which were functioning normally for the plant. 1931 September 17

   Photographer: Schultz, L.C.
   Scope and Content Note

Box 66:36  800-C-c-36 View showing face of earth with loose ends of roots and entire lateral made by cutting a cross-section through the excavated furrow shown in picture 800-C-c-35 and into the cotton row. Many cut off loose ends of roots can be seen. Biancucci area. 1931 September 17

   Photographer: Schultz, L.C.
   Scope and Content Note

Box 66:37  800-C-c-37 Close-up view of cross section shown in preceding picture 800-C-c-37. Numerous roots indicate that serious root pruning was not caused by the cracking of the soil in this area of heavy soil which was irrigated with narrow furrows. Biancucci area. 1931 September 17

   Photographer: Schultz, L.C.
   Scope and Content Note

Box 66:38  800-C-c-38 General appearance of excavation in cotton row in root penetration studies after soil has been washed away from roots with pressure sprayer. 1931 September

   Photographer: Schultz, L.C.
   Scope and Content Note

Box 66:39  800-C-c-39 Equipment used in making root penetration studies in cotton investigations. Portable pressure spray outfit shown in lower left of picture. 1931 September

   Photographer: Schultz, L.C.
   Scope and Content Note

Box 66:40  800-C-c-40 Showing generally cracked condition of soil surface on Biancucci area. 1931

   Photographer: Schultz, L.C.
   Scope and Content Note

   Irrigated by well water. Cracks are approximately 2 inches wide and 9 to 12 inches deep. Same area as shown in picture 800-C-c-28.

Box 66:41  800-C-c-41 Showing nature and general depth of surface cracks as seen in the first excavation on the Biancucci area, irrigated by well water. 1931

   Photographer: Schultz, L.C.
   Scope and Content Note

Box 66:42  800-C-c-42 Showing general appearance and depth of the surface cracks as the face of the trench shown in picture 800-C-c-41 is peeled away. 1931 October 20

   Photographer: Schultz, L.C.
   Scope and Content Note

   Note the hard surface layer, the more flakey layer beneath, the extent of the major cracks, and the very large number of very small salt deposits found in the very small disconnected cracks deep in the soil. Biancucci area, irrigated by well.
Box 66:43  800-C-c-43  Showing general appearance and depth of the surface cracks as more of the face of the trench shown in preceding picture is peeled away. 1931 October 20

Photographer: Schultz, L.C.

Scope and Content Note

Note the major crack going down two feet, the very thin scattered salt deposit at the base of this crack, and the ability of the major lateral roots to survive this cracking. Biancucci area, well irrigated.

Box 66:44  800-C-c-44  View showing the first face as seen in a trench cut across a cotton row on the McClaren area, south of Los Banos, irrigated by well water. 1931

Photographer: Schultz, L.C.

Scope and Content Note

Note the thin layer of hardened earth on the surface and the generally coarse nature of the cracks.

Box 66:45  800-C-c-45  View showing general nature and depth of the cracks when more of the face shown in preceding picture, 800-C-c-44, is peeled off. 1931

Photographer: Schultz, L.C.

Scope and Content Note

Note the major crack going down almost 3 feet. Notice the ever-present, very thin and small salt deposits in the small disconnected cracks rather far below the surface. McClaren area irrigated by well water.

Box 66:46  800-C-c-46  View showing general depth and morphology of cotton roots growing on heavy soil with a hard pan a little less than 3 feet below the surface. 1931

Photographer: Schultz, L.C.

Scope and Content Note

Note the depth of root between one and a half and three feet. Trench dug on Biancucci ranch where canal and well water have been used.

Box 66:47  800-C-c-47  View showing roots found across the row from those shown in preceding picture, 800-C-c-46. 1931

Photographer: Schultz, L.C.

Scope and Content Note

Notice the generally shallow development and the extensive development of the lateral roots.

Box 66:48  800-C-c-48  View showing the trench dug on Sam Hamburg’s ranch, 8 miles south of Los Banos, Calif. tracing down cotton roots. In this location, on a sandy, more loamy soil, the tap roots penetrated 10 feet. The roots are in place, but cannot be seen all the way down in the picture. 1931 October

Photographer: L.C. Schultz

Scope and Content Note

Box 66:49  800-C-c-49  Equipment used to get the picture shown in preceding picture. 1931 October

Photographer: Schultz, L.C.

Scope and Content Note

Box 66:50  800-C-c-50  Showing some of the cotton plant roots taken from the trench dug on the San Hamburg ranch, south of Los Banos. Trench shown in picture 800-C-c-48. 1931

Photographer: Schultz, L.C.

Scope and Content Note
Box 66:51 800-C-c-51 Showing method used in getting the soil samples to determine the moisture conditions in one foot increments in the excavation shown in picture 800-C-c-48. 1931 October

Photographer: Schultz, L.C.

Scope and Content Note

Box 66:52 800-C-c-52 These six bolls were picked for a tall, rank growing cotton plant. Upper three near top of plant not moldy; lower three from near bottom are moldy. Bolls a and b show about the maximum opening that bolls so growing will attain. Boll c has cotton removed, showing bottom of the boll. Boll d never did open. This very common for moldy bolls. Note modly appearance of boll and cotton. Boll e has been broken open. Note darkened color of cotton. Boll f shows about the maximum opening that these moldy bolls will make. Cotton irrigation studies, season of 1931, west side of San Joaquin Valley. 1931 October 31

Photographer: Schultz, L.C.

Scope and Content Note

Box 66:53 800-C-c-53 Collection soil samples on cotton irrigation area at Firebaugh (Fig. 33, Proj. 918, page 283) 1932

Photographer: L.C. Schultz

Scope and Content Note

Box 66:54 800-C-c-54 Showing the location of all the sampling points in a plot. The two stakes close together in the center mark the location of the points from which soil for moisture equivalent and permanent wilting percentage determinations were taken. The four other points marks the locations from which samples will be taken from time to time during the summer. Firebaugh. Figure 34, Proj. 918, page 283. Cotton irrigation investigations. 1932?

Photographer: Schultz, L.C.

Scope and Content Note

Box 66:55 800-C-c-55 Territory west of Firebaugh 1932

Photographer: Brown, L.N.

Scope and Content Note

Box 66:56 800-C-c-56 Territory west of Firebaugh 1932

Photographer: Brown, L.N.

Scope and Content Note

Box 66:57 800-C-c-57 Firebaugh Cotton irrigation experiment. Plot 49, treatment 10. Plants 2 weeks after first irrigation. 1932 August 5

Photographer: Brown, L.N.

Scope and Content Note


Photographer: Brown, L.N.

Scope and Content Note
| Box 66:59 | 800-C-c-59 Firebaugh Cotton Irrigation Experiment. Plot 29, Treatment 7. Irrigated every week. Plants appear to be well loaded with fruit, but show no indication of overgrowth. 1932 August 19  
Photographer: Brown, L.N.  
Scope and Content Note |
| Box 66:60 | 800-C-c-60 Firebaugh Cotton Irrigation Experiment. Sign showing plot numbers and treatments. The upper number indicates plots and the lower, treatments. The spread eagle shows a plot from which soil samples are taken. 1932 July 15  
Photographer: Brown, L.N.  
Scope and Content Note |
| Box 66:61 | 800-C-c-61 Firebaugh. Alfalfa field next to cotton plots. Dark areas are where the alfalfa has started to grow, while light areas are where the growth has not started. Examination of the soil showed that the soil under the light areas was wet down about 3 ft. while that under the dark, or growing, was wet 6'. 1932 July 15  
Photographer: Brown, L.N.  
Scope and Content Note |
Photographer: Brown, L.N.  
Scope and Content Note |
| Box 66:63 | 800-C-c-63 Firebaugh Cotton Irrigation Experiment. Cotton in plot 32, treatment 2. 1932 July 15  
Photographer: Brown, L.N.  
Scope and Content Note |
| Box 66:64 | 800-C-c-64 Cotton irrigation experiments, Mr. Fawcett's ranch, near Los Banos. Cotton at upper end of the row. These plants apparently suffered from lack of water. 1932 September 28  
Photographer: Brown, L.N.  
Scope and Content Note |
| Box 66:65 | 800-C-c-65 Cotton irrigation experiment, Mr. Fawcett's ranch, near Los Banos. Cotton at low section of the rows shown in the previous picture. This area being in a swale, gets a good supply of moisture each time either end of the rows is irrigated. Cotton is very much overgrown. 1932 September 28  
Photographer: Brown, L.N.  
Scope and Content Note |
| Box 66:66 | 800-C-c-66 Cotton irrigation experiment, Mr. Fawcett's ranch, near Los Banos. Picture of plants taken from area shown in previous pictures. One on left is an outside plant, while other two grew near white stake. 1932 September 28  
Photographer: Brown, L.N.  
Scope and Content Note |
| Box 66:67 | 800-C-c-67 to 83 Cotton irrigation experiments, Firebaugh and Los Banos area, 1932. 1932 June to September  
Photographer: Brown, L.N.  
Scope and Content Note |
Box 66:68  800-C-c-84 Cotton irrigation experiment, Firebaugh. Irrigating plots. Note small white stakes locating sampling points. 1932 June 17
   Photographer: Brown, L.N.
   Scope and Content Note

Box 66:69  800-C-c-85 The two plants on the left are typical for treatment 5 while the two on the right are typical for treatment 10. One plant of each treatment had the leaves stripped off to show the development of the bolls and squares. It is evident that the potential crop is about the same for each treatment. Treatment 5 was irrigated on July 15 and August 11; treatment 10 on Aug. 8. 1933
   Photographer: Brown, L.N.
   Scope and Content Note

Box 66:70  800-C-c-86 Plot 3, treatment 7, irrigated July 13 and 25 and August 1, 8, and 15. Note how the water still stands on the surface, although irrigated five days previously. Surface evaporation would probably account for a very large percentage of the loss. (No picture. See negative file or Page 350 in Project 918.) 1933
   Photographer: Brown, L.N.
   Scope and Content Note

Box 66:71  800-C-c-87 September 1. Treatment 1. Plot 20. The plants pictured here are about 30 inches high. These plants appear healthy and vigorous and compare will with these in commercial plantings. They were irrigated on July 13 and August 10 and soon will receive another irrigation. (no picture) 1933
   Photographer: Brown, L.N.
   Scope and Content Note

Box 66:72  800-C-c-88 September 1. Treatment 7. Plot 3. The plants pictured here are about 38 inches high and were irrigated on July 13 and 25 and August 1, 8, 15, 22, and 29. At this time it is doubtful if the crop on these plants will be significantly larger than that from the plants shown. (No picture.) 1933
   Photographer: Brown, L.N.
   Scope and Content Note

   Photographer: Brown, L.N.
   Scope and Content Note

   Photographer: Brown, L.N.
   Scope and Content Note

   Photographer: Brown, L.N.
   Scope and Content Note

Box 66:76  800-C-c-92 Firebaugh cotton experiment. S.E. corner plot 3/25 looking north across 2/19 and 1/12. Treatment 1, 2, and 3. 1934 July 11
   Photographer: Brown, L.N.
   Scope and Content Note
| Box 66:77 | 800-C-c-93 Firebaugh cotton experiment. West side of 3/20 looking west across 2/19. Treatment 2. 1934 July 30 |
| Box 66:78 | 800-C-c-94 Firebaugh cotton experiment. S.E. corner 2-25 looking north across 2/19 and 1/12. Treatment 3, 2, and 1. 1934 July 30 |
| Box 66:84 | 800-C-c-100 Firebaugh cotton experiment. West side of 1/21 looking across 3/20. Treatment. 3. 1934 November 6 |

Photographer: Ashkar, M.

Scope and Content Note


Photographer: Ashkar, M.

Scope and Content Note


Photographer: Ashkar, M.

Scope and Content Note


Photographer: Ashkar, M.

Scope and Content Note


Photographer: Ashkar, M.

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Scope and Content Note
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<td>Photographer: Dunshee, Carroll F.</td>
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<td>Defoliated cotton plant due to thrips. Kern Lake, Aug. 29, 1927.</td>
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<td>Photographer: Blaney, H.L.</td>
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<td>Photographer: Adams, Frank</td>
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<td>Photographer: Adams, Frank</td>
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<td>800-D-a-4 Chunks of peat as removed from the pits dug around tanks - barley transpiration studies at Medford Island. A detail of peat as shown at the side of the open pits in another picture. 1925 May</td>
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| | Photographer: Brown, L.N.  
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| Box 66:116 | 800-D-a-16 *Tank experiment with beans, use of water studies, Reclamation Dist. 999 1927*  
| | Photographer: Brown, L.N.  
| | Scope and Content Note  
| Box 66:117 | 800-D-a-17 *Beans from tanks in Reclamation District 999, use of water studies. 1927*  
| | Photographer: Brown, L.N.  
| | Scope and Content Note  
| Box 66:118 | 800-D-a-18 *Tank experiment with beans, Delta of Sacramento-San Joaquin rivers, use of water by field crop studies. 1927*  
| | Photographer: Brown, L.N.  
| | Scope and Content Note  
| Box 66:119 | 800-D-a-19 *Sugar beets growing in tanks in Reclamation District 999. Use of water studies. 1927*  
| | Photographer: Brown, L.N.  
| | Scope and Content Note  
| Box 66:120 | 800-D-a-20 *Moisture requirement tanks installed in the lower unit of Reclamation District No. 999. Frame partially loaded. Tank about half down. 1926*  
| | Photographer: Brown, L.N.  
| | Scope and Content Note  
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| | Photographer: Brown, L.N.  
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   Photographer: Doneen, L.D.
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   Photographer: Doneen, L.D.
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   Photographer: Doneen, L.D.
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800-D-b-14 Watermelon irrigation investigations, plot 10. Size of the plants at the time of the sixth soil moisture sampling (fig. 40), Aug. 30, 1935. No irrigation water applied. Print used for fig. 46, Proj. 918F, p. 59. (See print 800-D-b-23) 1935 August
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Box 66:165 800-D-b-31 Baby lima beans, Davis. 1944 June 19
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Box 66:166 800-D-b Soil moisture. Dry plots. Tomatoes. 1934. undated
  Photographer:
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  Photographer: Adams, Frank
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Box 66:170 800-D-c-4 Experimental Irrigation, University Farm, Davis, California, Season of 1918. 1918 June 06
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  Harvesting barley June 6. Yield of grain 2539 pounds per acre.

Box 66:171 800-D-c-6 Measuring water to field crops - Field 7 - Davis 1922
  Photographer:
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Box 66:178  800-D-c-15 Field experiments at Davis to study variability in yields from plots receiving identical treatment. 1931
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Field of barley growing in Field 2A, University Farm, Season 1931. In the strip where the good barley is growing, no crop was grown the preceding year. It is drawing on moisture stored from the previous season.

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   Photographer: Veihmeyer, Frank J.
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   Photographer: Veihmeyer, Frank J.
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   Photographer: Veihmeyer, Frank J.
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Box 66:191 800-D-c-34 Beans. Soledad Ranch Co., Soledad, Calif. Plot 5, on left. Irrigate every other furrow, alternate furrows each irrig. Irrigations - 6/15, 7/13, 8/1, 8/20. Plot 6, on right. Irrigate every other furrow, alternate furrow each irrig. Irrigations - 7/7, 8/3, 8/20. 1939 September 6
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Box 66:192 800-D-c-37 Artichokes. D. Conte ranch, Castroville, Calif. Blocking out field for irrigations. 1939 September 06
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800-D-c-53a Lettuce irrigation experiment, Speigl Ranch, Castroville. 5/9 - small stream furrow irrigation. 5/18 - harrowed and planted. 7/2 - furrow irrigation. 7/23 - furrow irrigation. 1940 July 29

Photographer: Bardin, Roy

Scope and Content Note

Box 66:204


Photographer: Washburn, H.L.

Scope and Content Note

Box 66:205


Photographer: Washburn, H.L.

Scope and Content Note

Box 66:206

800-D-c-55 Bean irrigation experiment, Soledad Ranch Co. Plots 20-D and 21-A. D plots heavily irrigated on 6/21, 7/18, and 8/1. A plots irrigated 8/1. 1940 August 16

Photographer: Washburn, H.L.

Scope and Content Note

Box 66:207

800-D-c-55a Bean irrigation experiment, Soledad Ranch Co. Plots 17-A and 18-B. A plots irrigated 8/1. B plots irrigated 7/18. 1940 August 16

Photographer: Washburn, H.L.

Scope and Content Note

Box 66:208

800-D-c-55b Bean irrigation experiment, Soledad Ranch Co. Plots 19-C and 20-D. D plots, heavy irrigation, 6/21, 7/18, and 8/1. C plots, irrigated, 6/25, 7/18, and 8/1. 1940 August 16

Photographer: Washburn, H.L.

Scope and Content Note

Box 66:209

800-D-c-55c Bean irrigation experiment, Soledad Ranch Co. Plots 18-B and 19-C. C plots irrigated 6/26, 7/18, and 8/1. B plots irrigated 7/18. 1940 August 16

Photographer: Washburn, H.L.

Scope and Content Note

Box 66:210

800-D-c-56a Lettuce, Spieggl Ranch, Chular. Shows the difference between regular furrow and shallow furrow in experimental plot. See page 409 of 1940 lettuce report. 1940 October 16

Photographer: Holland, A.H.

Scope and Content Note

Box 66:211

800-D-c-56b Lettuce, Spieggl Ranch, Chular. Shows the difference between regular furrow and shallow furrow in experimental plot. See page 409 of 1940 lettuce report. 1940 October 16

Photographer: Holland, A.H.

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<td><strong>800-E-c-4 Looking west in Muir Peach Orchard - Delhi Experimental tract 1921 May</strong></td>
<td>1921 May</td>
<td>F.A.</td>
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Box 66:223  800-E-c-5 *Northwest corner of orchard - Delhi experimental tract. Showing a Delhi wind. 1923 Spring*
  
  Photographer: Veihmeyer, Frank J.
  
  Scope and Content Note

Box 66:224  800-E-c-6 *Muir peach orchard, Delhi. undated*
  
  Photographer: Adams, Frank
  
  Scope and Content Note

Box 66:225  800-E-c-7 *View of mature Elberta peach orchard on Week's ranch, Antelope Valley, where duty of water studies were conducted in 1927. Distance between tree rows, 21.5 feet. 1927*
  
  Photographer: Huberty, Martin R.
  
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  Photographer: Huberty, Martin R.
  
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  Photographer: Huberty, Martin R.
  
  Scope and Content Note

Box 66:228  800-E-c-10 *View of 6-year old peach orchard at Doane ranch, Antelope Valley, used in duty of water studies in 1927. Distance between tree rows 24 feet. 1927*
  
  Photographer: Huberty, Martin R.
  
  Scope and Content Note

Box 66:229  800-E-c-11 *Filed plot used in duty of water studies, 1928. Seven-year old Elberta peach orchard on Doane Ranch, Antelope Valley, near Red Bluff, Calif. 1928*
  
  Photographer: Huberty, Martin R.
  
  Scope and Content Note

Box 66:230  800-E-c-12 *Experimental irrigation of peach orchard, Delhi. 1921*
  
  Photographer: Adams, Frank
  
  Scope and Content Note

Box 66:231  800-E-c-13 *Plan of Frietas #1, Santa Clara Valley. Water requirement studies. undated*
  
  Photographer: Veihmeyer, Frank J.
  
  Scope and Content Note

Box 66:232  800-E-c-14 *Prune orchard, District 10, (Ellis Orchard) about 5 miles north of Marysville, Calif. Trees growing on hard pan land. Each tree site blasted before planting. 1924*
  
  Photographer: Huberty, Martin R.
  
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| Box 66:233 | 800-E-c-15  | Experimental plots in prune orchard, irrigation studies. Branch of the College of Agriculture, Davis, Calif. 1923 October 5  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:234 | 800-E-c-16  | Experimental irrigation plots, prune orchard, Davis, Calif. (Branch of the College of Agriculture) 1923 October 5  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note  
Slide No. 75A27 |
| Box 66:235 | 800-E-c-17  | Irrigation of one of plots in treatment "C" Experimental Prune Orchard, Davis. Beginning to fill checks, cross levees not closed. 1932 August 10  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:236 | 800-E-c-18  | Irrigation of one of the plots in treatment "C", Experimental Prune Orchard, Davis, Calif. Checks have been filled and cross levees closed. 1932 August 10  
Photographer: Veihmeyer, Frank J.  
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Slide No. 75A28 |
| Box 66:237 | 800-E-c-19  | Soil-moisture investigations. Apple Trees at Rowe's place. Watsonville, California. Row 6 T7 Wet. 1934 August 31  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:238 | 800-E-c-20  | Soil-moisture investigations at Rowe's place in Watsonville, Calif. Wet plots. Row 6 T2 1934 August 31  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:239 | 800-E-c-21  | Soil-moisture investigations on Rowe place, Watsonville Row 9 T3. Dry plots. 1934 August 31  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:240 | 800-E-c-22  | Soil-moisture investigations, Rowe's place, Watsonville, Calif. Apple orchard. Row 9 T3 Dry plots. 1934 August 31  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:241 | 800-E-c-23  | Hilgardis v. 2(6): 125-291. Jan. 1927. Fig. 1, p. 131. Orchard No. 2 on Oct. 4, 1920, showing condition of soil and trees. (See: 116.5.6 Some factors affecting the irrigation requirements of deciduous orchards. F.J. Veihmeyer for print) 1920 October 4  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:242 | 800-E-c-24 | Hilgardia v. 2(6): 125-291. Jan. 1927. Some factors affecting the irrigation requirements of deciduous orchards. By F.J. Veihmeyer. Fig.2 Orchard no. 5 on Nov. 1, 1920. (See: 116.5.6 Mss., title above, for print.) 1920 November 1  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:243 | 800-E-c-25 | A typical French prune tree at Davis at 2 yrs. of age. Fig. 1a. Calif. Agr. Exp. Sta. Bul. 573. 1934. (Row 1, tree 7) Irrigation experiments with prunes. By A. H. Hendrickson and F. J. Veihmeyer. 1918  
Photographer: Pomology Division  
Scope and Content Note |
| Box 66:244 | 800-E-c-26 | (Pomology Div. has negative) A typical French prune tree (row 1, tree 7) at Davis at 3 yrs. of age. Fig. 1b. Calif. Agr. Exp. Sta. Bul. 573. 1934 Irrigation experiments with prunes. By A.H. Hendrickson and F.J. Veihmeyer. 1919  
Photographer: Pomology Division  
Scope and Content Note |
| Box 66:245 | 800-E-c-27 | (Pomology Div. has negative) A typical French prune tree (row 1, tree 7) at Davis at 4 yrs. of age. Fig. 1c. California Agr. Experiment Station Bul. 573. 1934 Irrig. exper. with prunes. By A.H. Hendrickson and F.J. Veihmeyer. 1920  
Photographer: Pomology Division  
Scope and Content Note |
| Box 66:246 | 800-E-c-28 | (Pomology Div. has negative) A typical French prune tree (row 1, tree 7) at Davis at 7 yrs. of age. Fig. 1d. Calif. Agr. Exp. Sta. Bul. 573. 1934 Irrig. exper. with Prunes. By A.H. Hendrickson and F.J. Veihmeyer. 1923  
Photographer: Pomology Division  
Scope and Content Note |
| Box 66:247 | 800-E-c-29 | The same French prune tree as shown in Fig. 1., left, during the summer of the 16th year. Fig 2. Calif. Agr. Exp. Sta. Bul. 573. 1934 Irrig. Exp. with Prunes. By A.H. Hendrickson and F.J. Veihmeyer. 1932  
Photographer: Pomology Division  
Scope and Content Note |
| Box 66:248 | 800-E-c-30 | The same French prune tree as shown in Fig. 1., right, during the winter of the 16th year. Fig 2. Calif. Agr. Exp. Sta. Bul. 573. 1934 Irrig. Exp. with Prunes. By A.H. Hendrickson and F.J. Veihmeyer. 1933  
Photographer: Pomology Division  
Scope and Content Note |
Photographer: Pomology Division  
Scope and Content Note |
| Box 66:250 | 800-E-c-32 | Plan of experiment prune orchard in Santa Clara Valley. Water requirements of deciduous orchards study. Bowden and Pollard orchards. circa 1919  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
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<td>Leaves on tree yellow and burned. Effect of spraying for red spider. Prune orchard Field 7, Row 15, Plot 5, Tree 1 in foreground. Treatment A. Looking south. 1939 August 2</td>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<td>Box 66:252</td>
<td>800-E-c-34</td>
<td>Leaves on tree yellow and burned. Effect of spraying for red spider. Prune orchard, Field 7, Treatment D, Row 1, Plot 1, Tree 1. Looking northeast. 1939 August 02</td>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<td>Looking west from Horticulture Building (in foreground) with poultry buildings beyond. Pomology orchard in upper right of photograph. Altitude about 800 feet. View taken from Goodyear airship &quot;Volunteer,&quot; Branch of the College of Agriculture, Davis, Calif. 1936 March 26</td>
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<td>Contour irrigation - Lemon Experimental plot. Cruickshank Grove, Vista. 1926</td>
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<td>Photographer: Beckett, Samuel H.</td>
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<td>Box 66:255</td>
<td>800-F-b-2</td>
<td>Key tree on experimental plot in duty of water studies. Treat avocados. 1927 April 21</td>
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<td>Photographer: Beckett, Samuel H.</td>
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<td>Box 66:256</td>
<td>800-F-b-3</td>
<td>Key tree on experimental plot. Treat grove. Lemons. 1927 April 21</td>
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<td>Photographer: Beckett, Samuel H.</td>
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<td>Box 66:257</td>
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<td>Key tree of experimental plot, Navel oranges, 30 years old. Red Mt. Ranch, Fallbrook, Cal. 1926</td>
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<td>Photographer: Beckett, Samuel H.</td>
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<td>Navel oranges. Red Mountain Ranch. Plot B. 1926</td>
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<td>Photographer: Beckett, Samuel H.</td>
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<td>Box 66:259</td>
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<td>Key tree to plot. Red Mountain Grove. Oranges. Duty of water studies in Southern California. 1927 April 22</td>
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<td>Photographer: Beckett, Samuel H.</td>
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<td>Key tree, experimental plot, Valencia oranges. Hinrichs grove. 1927 March 15</td>
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<td>Photographer: Beckett, Samuel H.</td>
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  Photographer: Beckett, Samuel H.
  Scope and Content Note

Box 66:262 800-F-b-9 General view showing citrus grove at the Citrus Experiment Station, Riverside, planted for irrigation studies. Trees planted May, 1930. 1930 December
  Photographer: Beckett, Samuel H.
  Scope and Content Note

Box 66:263 800-F-c-1 (a) View near selected plot in grapefruit, Hoyt Ranch. 1 mile North of Myoma, Coachella Valley. (b) New planting of tangerines at Hoyt Ranch. 1 mile North of Myoma (Use of water studies in Coachella Valley) 1932 April 28
  Photographer: Pillsbury, A.F.
  Scope and Content Note

Box 66:264 800-F-c See atmometer views used in use of water studies in Coachella Valley under 800-L-a-48-549-50. See - 800-L-e-8-9-10 Views of soil sampling in plots used for use of water studies in Coachella Valley. undated
  Photographer: Scope and Content Note

Box 66:265 800-G-a-1 First irrigation of Thompson Seedless vineyard, Delhi Irr. Exp. tract. 1921 May
  Photographer: Adams, Frank
  Scope and Content Note

Box 66:266 800-G-a-2 Vineyard experimental tract at Delhi. 1921 May
  Photographer: Adams, Frank
  Scope and Content Note

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  Photographer: Huberty, Martin R.
  Scope and Content Note

Box 66:268 800-H-c-1 Portion of Postlewaite Date Garden used for soil moisture studies, Coachella Valley. 1932 February 29
  Photographer: Adams, Frank
  Scope and Content Note

Box 66:269 800-H-c-2 (20) Looking east from water tower, Gov't Date Gardens, Indio. (21) Looking south west from water tower, Gov't Date Gardens, Indio. 1932 June
  Photographer: Pillsbury, A.F.
  Scope and Content Note

Box 66:270 800-H-c-3 (19) Looking north from water tower, Gov't Date Gardens, Indio. (19) Looking west from water tower, Gov't Date Gardens, Indio. 1932 June
  Photographer: Pillsbury, A.F.
  Scope and Content Note
Box 66:271

800-H-c-4 (a) Cowgill Date Gardens during sand storm. June 2, 1932, 4 mi. so. of west of Thermal, Calif. (b) Irrigating in Cowgill Date gardens. June 2, 1932. Use of water studies in Coachella Valley. 1932 June

Photographer: Pillsbury, A.F.
Scope and Content Note

Box 66:272

800-H-c-5 Irrigation of dates in Hoyt Ranch, Coachella Valley. Use of water studies in Coachella Valley. 1932 April 28

Photographer: Pillsbury, A.F.
Scope and Content Note

Box 66:273

800-H-c-6 (a) Irrigation of Bruce S. Boyer’s dates, Coachella Valley. (b) Sampling in Bruce S. Boyer date gardens, Coachella Valley. 1932 May 17

Photographer: Pillsbury, A.F.
Scope and Content Note
Use of water studies in Coachella Valley.

Box 66:274

800-H-c: See 700-M-b-145 for view of measuring water onto plots at Boyer Date Gardens, Coachella Valley, 1932. undated

Photographer:
Scope and Content Note

Box 66:275

800-H-c: See views of atmometer set-up used in use of water studies in Coachella Valley by A.F. Pillsbury. 800-L-a-48-49-50 undated

Photographer:
Scope and Content Note

Box 66:276

800-I-b Soil moisture. Dry plots. Sugar beets. 1934. See 800-M-a-73. See picture lantern slide and negative. undated

Photographer: Veihmeyer, Frank J.
Scope and Content Note
Slide No. S1173

Box 66:277

800-I-c-1 Root distribution of sugar beets by extraction of moisture at various dates during season before irrigation. 1934 May 15

Photographer: Doneen, L.D.
Scope and Content Note
Slide No. S1166

Box 66:278

800-I-c-2 Root distribution of sugar beets by extraction of moisture at various dates during season before irrigation. 1934

Photographer: Doneen, L.D.
Scope and Content Note
Slide No. S1167

Box 66:279

800-I-c-3 Sugar beet growth and soil-moisture study, 1941. Dry treatment. 1941

Photographer: Doneen, L.D.
Scope and Content Note
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| 800-I-c-4    | 388                 | Sugar beet leaf growth and percent nitrogen and ash for 1941. Sugar beets, pounds of nitrogen per acre. Roots and leaves, 1941. 1941  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note  
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| 800-I-c-7    | 388                 | Sugar beet growth and soil moisture study, 1941. Average weight of beets. Negative only. 1941  
Photographer: Edlefsen, Niels E.  
Scope and Content Note  
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| 800-L-a-1    | 388                 | Irrigation of plots at Delhi. Loss of water studies. 1921 July 7  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
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Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| 800-L-a-3    | 388                 | Sampling plots, Delhi. Loss of water studies. 1921 August  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| 800-L-a-4    | 388                 | Prune tree on soil with a water table 2 1/2 feet from the surface. Fall, 1926. Hilgardia. Fig. 23. 1926  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| 800-L-a-5    | 388                 | Soil sampling, plots, Santa Clara Valley. 1921 June 1  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| 800-L-a-6    | 388                 | Soil sampling, Santa Clara Valley. 1921 June 1  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| 800-L-a-7    | 388                 | Soil Sampling, Santa Clara Valley. 1921 June 1  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| 800-L-a-8    | 388                 | Mulching plots. Santa Clara Valley. 1921 June  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| 800-L-a-9    | 388                 | Cultivation of mulched plots. Santa Clara Valley. 1921  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| 800-L-a-10   | 388                 | Evaporation and cultivation experiments near Mountain View. circa 1922  
Photographer:  
Scope and Content Note |
Box 66:292  800-L-a-11 Evaporation from the soil surface. Condition of the Yolo clay soil in the cultivated plots at Whittier, two months after irrigation. (Hilgardia, Vol. 2, No. 6, Fig. 37.) 1924
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:293  800-L-a-12 Condition of the uncultivated Yolo clay soil in the uncultivated plots at Whittier, two months after irrigation. The place of sampling is indicated by the stake in the foreground and the special tube used to take samples in 4-inch depths is shown. (Hilgardia, Fig. 38.) 1924
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:294  800-L-a-13 The manner of spacing the holes around the stake indicating the place of sampling for moisture determinations in the field plots used in the evaporation trials. Photograph taken in one of the uncultivated plots at Mountain View two months after irrigation. (Hilgardia, Fig. 39) 1924
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:295  800-L-a-14 Evaporation from the soil surface. Irrigation plots in mulching experiment at Whittier, July, 1921. 1921 July
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:296  800-L-a-15 Evaporation from the soil surface. Irrigation of Whittier Tract. 1921 July 15
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note
  Leffingwell Rancho. Four plots arranged in tandem, cross levees, 6 in each plot to insure even distribution of irrigation water.

Box 66:297  800-L-a-16 Evaporation from the soil surface. Leffingwell Rancho, Whittier Tract. Plots after irrigation. 1921 July 15
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:298  800-L-a-17 Evaporation from the soil surface. Whittier Tract. Plots after irrigation. 1921 July 15
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:299  800-L-a-18 Irrigated plots at Whittier for loss of water studies. (48 hours after irrigation.) 1921 July 15
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:300  800-L-a-19 Evaporation from soil surface studies. Imperial Tract first irrigation. 1921 July
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note
| Box 66:301 | 800-L-a-20 **Evaporation from soil surface. Imperial Tract. 1921 July**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 9:302 | 800-L-a-21 **Evaporation from soil surface. Imperial Tract. 1921 July**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:303 | 800-L-a-22 **Irrigating plots in Imperial Valley. Silt soil. 1921 July**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:304 | 800-L-a-23 **Irrigation of Imperial Valley plots. 1921 July**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:305 | 800-L-a-24 **Evaporation from soil surface studies. Sampling Imperial Valley plots. 1921 August**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:306 | 800-L-a-25 **Evaporation from soil surface. Imperial Valley. 1921 August**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:307 | 800-L-a-26 **Evaporation from soil surface studies. Sampling mulched and unmulched plots, Imperial Valley. Manner of spacing holes. 1921**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:308 | 800-L-a-27 **Irrigation of mulched and unmulched plots. Loss of water from soil studies. Imperial Valley. 1921 August**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:309 | 800-L-a-28 **Evaporation from soil surface. Irrigation of mulched and unmulched plots. Imperial Valley. 1921 July**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:310 | 800-L-a-29 **Barley and vetch plants growing in tanks irrigated 80 days before the seeds were planted. Rain was prevented from wetting the tanks by means of the wooden frame and a canvas cover. 1922 March 10**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:311 | 800-L-a-30 **Evaporation from soil surface studies. Vetch plants growing in tanks #36 on soil which had been exposed to evaporation for a period of 80 days after irrigation and before the seeds were planted. The soil in this tank was uncultivated during this period, being in the same conditions that in Fig. 33. (Higardia, Vol. 2, No. 6, Fig. 32.) 1922 May 6**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
Box 66:312 800-L-a-31 Evaporation from the soil surface studies. Vetch plants growing in tank #30 on soil which had been exposed to evaporation for a period of 80 days after irrigation and before the seeds were planted. The soil in tank #30 was cultivated during this period and was in the same condition as that in tank #35, (left in fig. 32.) (Hilgardia, Vol. 2, No. 6, Fig. 33.) 1922 May 06
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:313 800-L-a-32 Evaporation from soil surface studies. Tank 26, containing morning glory (Convolvulus arvensis) plants. (Hilgardia, Vol. 2, No. 6, Fig. 35.) 1924 August 19
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:314 800-L-a-33 Evaporation from the soil surface studies. Mt. View. Vetch and barley in tanks. Long exposure to evaporation, without additional water being added to soil. 1922
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:315 800-L-a-34 Evaporation from soil surface studies. Vetch and barley in mulched and unmulched tanks, Mt. View. 1922 March 10
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:316 800-L-a-35 Evaporation from soil surface studies. Vetch and barley in tanks. 1922
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:317 800-L-a-36 Evaporation from soil surface studies. Vetch in tank. 1922
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:318 800-L-a-37 Evaporation from soil surface studies. Vetch growing in tank. 1922
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:319 800-L-a-38 Evaporation from soil surface studies. Vetch and barley in tanks. 1922
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:320 800-L-a-39 Evaporation from soil surface studies. Vetch and barley in tanks. 1922
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:321 800-L-a-40 Evaporation from soil surface studies. Barley in tanks. 1922
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:322 800-L-a-41 Evaporation from soil surface studies. Vetch in tank. 1922
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
Experiments to determine losses of moisture from irrigated soils due to evaporation directly from the surface of cultivated and uncultivated soil. Plots in the Santa Clara Valley immediately after irrigation, cross levees used to insure even distribution of moisture. 1921 June

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Lund tract, Santa Clara Valley. Four plots 20 feet by 90 feet.

Box 66:324

Mixing soil for loss-of-water-by-evaporation from water-logged soil experiments, University Farm, Davis. 1931 August 29

Photographer: J.E.C.

Scope and Content Note

Box 66:325

Filling tanks for loss-of-water-by-evaporation from water-logged soil experiments. University Farm, Davis. 1931

Photographer: Christiansen, Jerald Emmet

Scope and Content Note

Box 66:326

Fig. 30 - Hilgardia Vol. 2, No. 6 - Veihmeyer, Frank J. Loss of water by evaporation directly from the surface of bare soils in tanks at Mountain View, 1921. 1926

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 66:327

Hilgardia Vol. 2, No. 6 - Veihmeyer, Frank J. 1926

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 66:328

Fig. 36 - Hilgardia Vol. 2, No. 6 1926

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 66:329


Photographer: Pillsbury, A.F.

Scope and Content Note

Box 66:330

(a) Atmometer at Hoyt ranch - 1 mile North of Myoma (b) Atmometer in Menakher Gardens of R. H. Postlethwaite, Coachella Valley. Use of water studies in Coachella Valley. 1932 April 26

Photographer: Pillsbury, A.F.

Scope and Content Note

Box 66:331

Atmometers at Government Date Gardens, April 28, 1932. Coachella Valley. Use of water studies. 1932 April

Photographer: Pillsbury, A.F.

Scope and Content Note

Box 66:332

Wheat tanks 2-7 mc. Tulare wheat experiment 1905, showing effects of varying amounts of water. 1905

Photographer:

Scope and Content Note
800-L-a-51 Tank installations, evaporation, and transpiration experiments, Fort Collins, Colorado. 1932
Photographer: Adams, Frank
Scope and Content Note

800-L-a-52 Soil moisture studies. Fort Collins at 1915. 1915
Photographer: Veihmeyer, Frank J.
Scope and Content Note

800-L-a-52 Rate of drying curve. F.S. soil over 44% sulphuric acid solution. undated
Photographer: Veihmeyer, Frank J.
Scope and Content Note
Slide No. 786

800-L-a-53 Soil moisture studies. Fort Collins. 1915
Photographer: Veihmeyer, Frank J.
Scope and Content Note

800-L-a-53 Rate of drying curve. F.S. soil over 10% sulphuric acid solution. undated
Photographer: Veihmeyer, Frank J.
Scope and Content Note
Slide No. 787

800-L-b-1 Distribution of water from furrows; Madera sand, after 30 minute run. John Quail, Farm Advisor, Merced County. 1923
Photographer: Brown, J.B.
Scope and Content Note

800-L-c-1 Filling capillary soil columns for studies of the effect of cross sectional area upon capillary rise. 1924 November 24
Photographer: Wadsworth, H.A.
Scope and Content Note

800-L-c-2 Quantitative columns used in capillary rise observation showing extent of rise after 16 days. The columns are square inches reading from left to right. 1924 November 8
Photographer: Wadsworth, H.A.
Scope and Content Note

800-L-c-3 Battery of soil columns used to determine the effect of size of container upon capillary rise. Constant level bottle shown in the foreground. 1925 November 26
Photographer: Adams, Frank
Scope and Content Note

800-L-c-4 Battery of capillary soil columns used in determining the effect of container upon capillary rise. Small sizes in the foreground. 1925 November 26
Photographer: Adams, Frank
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Box 66:343  800-L-c-5 Determining the effect of cultivation upon the rate of absorption of irrigation water. 1925 November 13
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:344  800-L-c-6 Determining the effect of cultivating upon the rate of absorption of irrigation water. 1925 November 13
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:345  800-L-c-7 Effect of subsoiling in alfalfa plots at Davis. 1920 September
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:346  800-L-c-8 Effect of subsoiling in Alfalfa plots at Davis, Calif. Subsoiled to depth of 28 inches with different distances in different plots. Plots all irrigated with 1 to 1.5 acres-inches depth immediately and every two days for four or five irrigations. Beckett’s work at Davis. Determination of percolation made after each irrigation and noted improvement of permeability a short distance away from subsoil strip due to greater penetration at this place. Illustrates lack of lateral movement. Irregular spots - gopher holes. 1920 September
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:347  800-L-c-9 Movement of moisture from moist soil to drier soil. Packed column with central section of soil wet. Picture taken before glass front was put in position. 1922 October
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:348  800-L-c-10 Movement of moisture from moist soils to drier soils. Deciduous Fruit Experiment Station, Mountain View. 1923 January 13
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:349  800-L-c-11 Movement of soil moisture from moist soils to drier soils. Deciduous Fruit Experiment Station, Mountain View. 1923 January
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:350  800-L-c-12 Movement of soil moisture from moist soils to drier soils. 1923 January
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:351  800-L-c-13 Movement of soil moisture from moist soils to drier soils. 1923 January 13
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 66:352  800-L-c-14 Movement of soil moisture from moist to drier soils. 1922
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note
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**Box 66:353**

800-L-c-15 *Movement of soil moisture from moist soils to drier soils. 1923 January 13*

Photographer: Veihmeyer, Frank J.

Scope and Content Note

**Box 66:354**

800-L-c-16 *Movement of soil moisture. Weighing columns for studies. Irrigated middle section for study of movement of moisture. Mt. View. 1922 August*

Photographer: Veihmeyer, Frank J.

Scope and Content Note

**Box 66:355**

800-L-c-17 *Field demonstration in soil moisture distribution for boys club convention. 1925 October 23*

Photographer: Veihmeyer, Frank J.

Scope and Content Note

**Box 66:356**

800-L-c-18 *Field demonstration in soil moisture distribution for Boys Club Convention. 1925 October 23*

Photographer: Veihmeyer, Frank J.

Scope and Content Note

**Box 66:357**

800-L-c-19 *Hilgardia Vol. 2, No. 6 - Movement of moisture upward and downward. 1926*

Photographer: Veihmeyer, Frank J.

Scope and Content Note

**Box 66:358**

800-L-c-23 *Fig. 44 - Hilgardia Vol. 2, No. 6 - Movement of moisture upward and downward. 1926*

Photographer: Veihmeyer, Frank J.

Scope and Content Note

**Box 66:359**

800-L-c-24 *Soil permeability to water studies. Plot on Pomology tract, Davis. 1933 February 2*

Photographer: Edlefsen, Niels E.

Scope and Content Note

**Box 66:360**

800-L-c-25 *Rate of penetration studies at Davis conducted by S.H. Beckett, F.J. Veihmeyer, and K.B. Tester. 1926 June 7*

Photographer:  
Scope and Content Note  
Mulched plot is on the left; unmulched plot at the right.

**Box 66:361**

800-L-c-26 *Rate of penetration studies at Davis, conducted by S.H. Beckett, F.J. Veihmeyer, and K.B. Tester. 1926*

Photographer:  
Scope and Content Note  
Mulched plot is on left; unmulched plot at the right.

**Box 66:362**

800-L-c-27 *Quantity of water expressed in surface inches in various parts of the soil mass. Permeability of soil to water studies buy N.E. Edlefsen and G.B. Bodman. 1933 November 4*

Photographer: Edlefsen, Niels E.

Scope and Content Note
Box 66:363
800-L-c-28 Transmission of water through saturated sands and soils. Pressure potential gradient may be written in full as gram centimeters per gram. Note: Pressure potential gradient may be written in full as gram centimeters per gram of water per centimeter of column of soil. Multiply horizontal scale by 5 for all soils. Divide vertical scale by 10 for soils YOL (Yolo Clay Loam) and YFSL (Yolo fine sandy loam). Divide vertical scale by 50 for soil ACL (Aiken Clay Loam). 1933 November 10
   Photographer: Edlefsen, Niels E.
   Scope and Content Note

Box 66:364
800-L-c-29 Quantity of water transmitted through soil planes in surface inches per day as related to depth and time. Soil permeability to water studies. 1933 November 10
   Photographer: Edlefsen, Niels E.
   Scope and Content Note

Box 66:365
800-L-c-30 Capillary conductivity curves for, A--a sandy soil, B--Greenville loam soil and C--Preston clay. (After Richards) undated
   Photographer:
   Scope and Content Note

Box 66:366
800-L-c-31 Curves showing the relation between capillary potential and moisture content for, A--B ennet sandy soil, B--Greenville loam soil and C--Preston clay. (after Richards) undated
   Photographer:
   Scope and Content Note

Box 66:367
800-L-c See: 790-18 - Diagram showing wet area and moisture contents on Dec. 16, 1925. 790-19 - Diagram showing wet area and moisture contents on Oct. 22, 1925. 790-13 - Diagram showing extent of moisture movement from irrigation furrows. Sandy loam soil. 1, 4, 8, 26, 48, and 72 hrs. after beginning irrig., University Farm. 1925. undated
   Photographer:
   Scope and Content Note

Box 66:368
800-L-d-1 (Pomology negative 4034) Soil sampling in face of trench dug across field capacity plots, Yuba City. undated
   Photographer: Hendrickson, A.H.
   Scope and Content Note

Box 66:369
800-L-d-2 (Pom. Neg. 4035) Field capacity tests at Yuba City on Madera and Gridley loam. 1928 September 21
   Photographer: Hendrickson, A.H.
   Scope and Content Note
   One plot is exposed for sampling, the other is covered with canvas.

Box 66:370
800-L-d-3 (Pom. Neg. 4033) Field capacity tests at Yuba City. 1928
   Photographer: Hendrickson, A.H.
   Scope and Content Note
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800-L-d-4 Moisture equivalent as a measure of the field capacity of soils. Field capacity plot at Yuba City on Madera and Gridley loam 4 days after a depth of 4 inches of water was applied. The hatched area represents the wetted portion of the soil and the numbers are the relative wetness or the ratio of moisture content to the moisture equivalent. (Fig. 1. Soil Sci. 32(3):181-193) 1928
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. 706

Box 66:372
800-L-d-5 Field capacity plot at Yuba City on Madera and Gridley loam, 4 days after a depth of 8 inches of water was applied. The hatched area represents the wetted portion of the soil and the numbers are the relative wetness of the ratio of moisture content to the m.e. M.G. soil, (Soil Sci. 32(3):181-193. 1937, fig.2) 1928
   Photographer: Veihmeyer, Frank J.
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   Slide No. S 703

Box 66:373
800-L-d-6 Field capacity plot at Hughson on Fresno sandy loam, 6 days after a depth of 4 inches of water was applied. (See Soil Sci. 32(3):181-193. 1931) 1928
   Photographer: Veihmeyer, Frank J.
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Box 66:374
800-L-d-7 Field capacity plot at Hughson on Fresno sandy loam, 6 days after a depth of 6 inches of water was applied. The hatched area represents the wetter portion of the soil and the number are the relative wetness of the ratio of moisture content to the m.e. (See Soil Sci. 32(3):181-193. 1931) 1928
   Photographer: Veihmeyer, Frank J.
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Box 66:375
800-L-d-8 Field capacity plot at Riverside 5 days after a depth of 3 inches of water was applied. (See Soil Sci. 32(3):181-193. 1931) 1928
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. S 704

Box 66:376
800-L-d-9 Field capacity plot of Riverside 5 days after a depth of 6 inches of water was applied. (Fig. 6 of "Mois. Equiv. as a meas. of the f.c. of soils." F.J. Veihmeyer and A.H. Hendrickson. Soil Sci. 32(3):181-193. Sept. 1931.) 1928
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. S 705

Box 66:377
800-L-d-10 Hilgardia Vol. 2, No. 6 - Veihmeyer, Frank J. 1926
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:378
800-L-d-11 Soil Moisture Content and Relative wetness, Nutting Pear Orchard 1 For other Nutting Pear Orchards (Orchard 3) 1935 January 4
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
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Photographer:
Scope and Content Note
Slide No. S 600 to 607, S 608 to 616, S 796 and S 797

Box 66:380 800-L-d-29 Typical foothill soils showing water storage capacities. Chart. 1939 November

Photographer: F.J. Veihmeyer
Scope and Content Note
Slide No. S 1326

Box 66:381 800-L-d-32 A gravelly old valley-fill soil, Corning covered with a dense growth of Manzanita interspersed with some pine and scrub oak. (Fig. 1 of the Permanent Wilting Percentage as a Reference Point for the Measurement of Soil Moisture, by F. J. Veihmeyer and A.H. Hendrickson, prepared for the Committee on Physics of Soil Moisture report, American Geophysical Union, 1947). 1947 February

Photographer: Veihmeyer, Frank J.
Scope and Content Note
Slide No. 1491-S

Box 66:382 800-L-d-33 Aiken loam with an almost pure stand of chamise, but with some Ceanothus and Manzanita. (Fig. 2 of the Permanent Wilting Percentage as a Reference Point for the Measurement of Soil Moisture, by F.J. Veihmeyer and A.H. Hendrickson, prepared for the Committee on Physics of Soil Moisture report, American Geophysical Union, 1947). 1947 February

Photographer: Veihmeyer, Frank J.
Scope and Content Note
Slide No. 1492-S

Box 66:383 800-L-d-34 Yolo soil, in a mature walnut orchard. (Fig. 3 of The Permanent Wilting Percentage as a Reference for Measurement of Soil Moisture, by F.J. Veihmeyer and A.H. Hendrickson, prepared for the Committee on Physics of Soil Moisture, American Geophysical Union, 1947). 1947 February

Photographer: Veihmeyer, Frank J.
Scope and Content Note
Slide No. 1493-S

Box 66:384 800-L-d-35 Yolo soil, in a mature prune orchard. (Fig. 4 of The Permanent Wilting Percentage as a Reference for Measurement of Soil Moisture, by F.J. Veihmeyer and A.H. Hendrickson, prepared for the Committee on the Physics of Soil Moisture, American Geophysical Union, 1947). 1947 February

Photographer: Veihmeyer, Frank J.
Scope and Content Note
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Box 66:385  800-L-d-36 Yolo soil, in a mature peach orchard. (Fig. 5 of The Permanent Wilting Percentage as a Reference for Measurement of Soil Moisture, by F.J. Veihmeyer and A.H. Hendrickson, prepared for the Committee on the Physics of Soil Moisture, report, American Geophysical Union, 1947). 1947 February

   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. 1495-S

Box 66:386  800-L-d-37 Yolo soil supporting a growth of soft chess, bur clover, and Nodding stipa. (Fig. 6 of The Permanent Wilting Percentage as a Reference Point in the Measurement of Soil Moisture, by F.J. Veihmeyer and A.H. Hendrickson, prepared for the Committee on the Physics of Soil Moisture report, American Geophysical Union, 1947). 1947 February

   Photographer: Veihmeyer, Frank J.
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Box 66:387  800-L-d-38 Yolo soil supporting a growth of weedy annuals and Nodding stipa. (Fig. 7 of The Permanent Wilting Percentage as a Reference Point in the Measurement of Soil Moisture, by F.J. Veihmeyer and A.H. Hendrickson, prepared for the Committee on the Physics of Soil Moisture report, American Geophysical Union, 1947). 1947 February

   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. 1497-S

Box 66:388  800-L-e-1 Boring for moisture in unirrigated prune orchard near Napa. 1916

   Photographer: Adams, Frank
   Scope and Content Note

Box 66:389  800-L-e-2 Sampling of plots in Santa Clara Valley. 1921

   Photographer: Adams, Frank
   Scope and Content Note

Box 66:390  800-L-e-3 Soil sampling. undated

   Photographer:
   Scope and Content Note

Box 66:391  800-L-e-4 Soil sampling with compressor run by auxiliary ford motor. undated

   Photographer:
   Scope and Content Note

Box 66:392  800-L-e-5 Soil sampling with compressor run by auxiliary Ford motor. undated

   Photographer:
   Scope and Content Note

Box 66:393  800-L-e-6 Sampling for soil moisture in a desert brush area, Coachella Valley, east of Beach Date Garden. 1932 February 29

   Photographer: Adams, Frank
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  Photographer: Edlefsen, Niels E.
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  Photographer: Edlefsen, Niels E.
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  Photographer: Edlefsen, Niels E.
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  Photographer: Edlefsen, Niels E.
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  Photographer: Edlefsen, Niels E.
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Scope and Content Note  
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| Box 66:424 | 800-L-g-15 **Negative only. Curves showing moisture content of Yolo clay loam as a function of time, and electrical resistance of 2-electrode blocks as a function of time, together with the derived curves showing the resistance as a function of moisture content, for three plaster-of-Paris blocks at the 18-inch depth under field conditions. (Fig. 1, Field study of response of the electrical resistance of 2- and 4-electrode plaster of Paris blocks to variations in soil moisture, Soil Sci. 54(4):275-279, 1942, Edlefsen, Andersen, and Marcum). 1942**  
Photographer: Edlefsen, Niels E.  
Scope and Content Note |
| Box 66:425 | 800-L-g-16 **Negative only. Dependence of the 2-electrode plaster of Paris block resistance on time after block had been placed in a large body of Yolo fine sandy loam at the uniform moisture contents indicated. (Fig. 2, of "Laboratory study of the response of 2- and 4-electrode plaster of Paris blocks as soil-moisture content indicators", Soil Sci. 53(6):413-428, 1942, by Andersen and Edlefsen.) 1942**  
Photographer: Edlefsen, Niels E.  
Scope and Content Note |
| Box 66:426 | 800-L-g-17 **Negative only. Curves showing moisture content of Yolo clay loam as a function of time, and electrical resistance of 2-electrode blocks as a function of time, together with the derived curve showing the resistance as a function of moisture content, for three plaster of Paris blocks at the 18" depth under field conditions. Prepared as figure for "Field study of response of the electrical resistance of 2- and 4-electrode plaster of Paris blocks to variations in soil moisture", by N.E. Edlefsen, A. Andersen, and W.B. Marcum, Soil Sci. 54(4), 1942, but not used in publication. 1942**  
Photographer: Edlefsen, Niels E.  
Scope and Content Note |
Curves showing moisture content of Yolo clay loam as a function of time, and electrical resistance of 2-electrode blocks as a function of time, together with the derived curve showing the resistance as a function of moisture content, for 3 plaster of Paris blocks at the 18" depth under field conditions. Prepared as figure for "Field study of response of the electrical resistance of 2- and 4-electrode plaster of Paris blocks to variations in soil moisture", by N.E. Edlefsen, A. Andersen, and W.B. Marcum, Soil Sci. 54(4), 1942, but not used in publication. Negative only. 1942

Photographer: Edlefsen, Niels E.
Scope and Content Note

Negative only. Derived curves showing resistance of blocks as a function of moisture content when the blocks are placed in Yolo fine sandy loam upon which plants were growing in the laboratory. The numbers distributed along the curve indicate the cycle from which the data were obtained. Figure 2 of "Methods of measuring soil moisture", Amer. Soc. Sugar Beet Tech. 1943, by N.E. Edlefsen, A. Andersen, and W.B. Marcum.

Photographer: Edlefsen, Niels E.
Scope and Content Note

Negative only. Figure 3, Curves showing moisture content of Yolo sandy loam as a function of time together with the derived curve showing the resistance as a function of moisture content for three plaster of Paris blocks at the 18" depth under field conditions. From "Methods of measuring soil moisture", Amer. Soc. Sugar Beet Tech. 1943, by N.E. Edlefsen, A. Andersen, and W.B. Marcum. 1942

Photographer: Edlefsen, Niels E.
Scope and Content Note

Bouyoucos block calibration curve showing soil moisture content vs resistance for Yolo clay loam at 6-inch depth with sunflower in No. 5 can. 1950 Spring

Photographer: Orr, R.C.
Scope and Content Note

Bouyoucos block calibration 1950 Spring

Photographer: Wahba, I.J.
Scope and Content Note

Bouyoucos calibration curve. Relation between PW and Resistance. 1950 Spring

Photographer: Rawitz, E.
Scope and Content Note

See Also - 775-43 and 44. 775-43- Electrical circuit used in portable dielectric meter etc. 775-44- Condenser shown in place in the soil; Detail of condenser, Dielectric studies, 1933. undated

Photographer:
Scope and Content Note

Strawberries, Davis, 1937, used to study the effect of soil moisture on the plants and show grother relative to tensiometer measurements. See paper "Use of tensiometers in measuring availability of water to plants." by Veihmeyer, Frank J., Edlefsen, Niels E. and AH Hendrickson. (Fig. 9(a)) 1937 June 29

Photographer: Veihmeyer, Frank J.
Scope and Content Note
| Box 66:435 | 800-L-i-2 Strawberries, Davis, 1937, used to study the effect of soil moisture on the plants and show growth relative to tensiometer measurements. 1937 July 2  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:436 | 800-L-i-3 Strawberries, Davis, 1937, used to study the effect of soil moisture on the plants and show growth relative to tensiometer measurements. 1937 July 7  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:437 | 800-L-i-4 Strawberries, Davis, 1937, used to study the effect of soil moisture on the plants and show growth relative to tensiometer measurements. See paper “Use of tensiometers in measuring availability of water to plants.” by FV, Edlefsen, Niels E. and AHH. Fig. 7b 1937 July 12  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:438 | 800-L-i-5 Strawberries, Davis, 1937, used to study the effect of soil moisture on the plants and show growth relative to tensiometer measurements. 1937 July 15  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:439 | 800-L-i-6 Strawberries, Davis, 1937, used to study the effect of soil moisture on plants and show growth relative to tensiometer measurements. See paper “Use of tensiometers in measuring availability of water to plants.” by Veihmeyer, Frank J., Edlefsen, Niels E., and AHH. Fig. 7c 1937 July 23  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:440 | 800-L-i-7 Strawberries, Davis, 1937, used to study the effect of soil moisture on plants and show growth relative to tensiometer measurements. See paper “Use of tensiometers in measuring availability of water to plants.” by Veihmeyer, Frank J., Edlefsen, Niels E., and AHH. 1937 July 30  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:441 | 800-L-i-8 Strawberries, Davis, 1937, used to study the effect of soil moisture on plants and show growth relative to tensiometer measurements. See paper “Use of tensiometers in measuring availability of water to ooplants.” by Veihmeyer, Frank J., Edlefsen, Niels E., and AHH. Fig. 7c 1937 August 06  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:442 | 800-L-i-9 Strawberries, Davis, 1937, used to study the effect of soil moisture on plants and show growth relative to tensiometer measurements. See paper by Veihmeyer, Frank J., Edlefsen, Niels E., and AHH. 1937 August 19  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
Box 66:443

800-L-i-10 **Strawberries, Davis, 1937, used to study the effect of soil moisture on plants and show growth relative to tensiometer measurements. See paper "use of tensiometers in measuring availability of water to plants." by Veihmeyer, Frank J., Edlefsen, Niels E., and AHH. Fig. 9a 1937 August 31**

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 66:445

800-L-i-11 **Strawberries, Davis, 1937, used to study the effect of soil moisture on plants and show growth relative to tensiometer measurements. See paper "Use of tensiometers in measuring availability of water to plants." by Veihmeyer, Frank J., Edlefsen, Niels E., and AHH. 1937 September 16**

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 66:446

800-L-i-12 **Strawberries, Davis, 1937, used to study the effect of soil moisture on plants and show growth relative to tensiometer measurements. 1937 September 22**

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 66:447

800-L-i-13 **Strawberries, Davis, 1937, used to study the effect of soil moisture on plants and show growth relative to tensiometer measurements. See paper "Use of tensiometers in measuring availability of water to plants" by Veihmeyer, Frank J., Edlefsen, Niels E., and AHH. 1937 September 29**

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 66:448

800-L-i-14 **Strawberries, Davis, used to study the effect of soil moisture on plants and show growth relative to tensiometer measurements. See paper "Use of tensiometers in measuring availability of water to plants" by Veihmeyer, Frank J., Edlefsen, Niels E., and AHH, Fig. 9b. 1937 October 7**

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 66:449

800-L-i-15 **Piezometer 1959**

Photographer: Wilson, G.

Scope and Content Note

Box 66:450

800-L-m-1 **Water running in furrows unevenly due to compaction. taken on field in the southeast corner of the University farm. 1954**

Photographer: Marr, J.C.

Scope and Content Note

Slide No. 800-L-m-1

Box 66:451

800-L-z-1 **Diagram of water wedge between soil particles indicating regions experiencing forces of different natures. 1932 April**

Photographer: Edlefsen, Niels E.

Scope and Content Note

Box 66:452

800-L-z-2 **Diagrammatic representation of forces acting on elemental volume of water. 1932 April**

Photographer: Edlefsen, Niels E.

Scope and Content Note

S represents cohesive force. O represents kinetic pressure. P represents surface pressure.
| Box 66:453 | 800-L-z-3 **Effect of method of irrigation on nitrogen content of soils. Experiments by C.B. Lipman, University Farm, Davis. 1915**  
Photographer: Adams, Frank  
Scope and Content Note |
| --- | --- |
| Box 66:454 | 800-L-z-4 **Effect of method of irrigation on nitrogen content of soils. Experiments by C.B. Lipman, University Farm, Davis. 1915**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 66:455 | 800-L-z **Photograph of Staff at Mt. View, Calif. 785-Z-207 undated**  
Photographer:  
Scope and Content Note |
| Box 66:456 | 800-M-a-1 **Tank yard, Davis, California. 1927 April**  
Photographer:  
Scope and Content Note |
| Box 66:457 | 800-M-a-2 **Initial weighing of water jacket soil tanks at Pomona sub-station; showing apparatus for lifting and weighing tanks. 1903 July 23**  
Photographer: Stover, Arthur P.  
Scope and Content Note |
| Box 66:458 | 800-M-a-3 **Weighing soil tanks at time of installation, Tulare sub-station. Average weight of tanks when filled 375 pounds. 1903 May 30**  
Photographer: Stover, Arthur P.  
Scope and Content Note |
| Box 66:459 | 800-M-a-4 **Installing soil tanks at Tulare sub-station. 34 soil tanks and one evaporation tank installed. 1903 May 28-30**  
Photographer: Stover, Arthur P.  
Scope and Content Note |
| Box 66:460 | 800-M-a-5 **Arlington Fruit Company's Ranch, Riverside, Calif. undated**  
Photographer:  
Scope and Content Note |
| Box 66:461 | 800-M-a-6 **Equipment for water relations studies. Excavation of trench for tanks Mountain View. 1920**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:462 | 800-M-a-7 **Equipment for studying water requirements of prune trees and evaporation losses from soil. Deciduous Fruit Experiment Sta., Mountain View, Cal. 1921 April**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 66:463 | 800-M-a-8 **Equipment for water relations studies. Preliminary test on automatic suspended tank. Mountain View, California. 1921**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
Box 66:464  800-M-a-9  Equipment for water relations studies. Tank No. 7, Automatically balanced tank. Mt. View, California. 1921
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:465  800-M-a-10  Soil tanks at Mt. View used to determine the losses of moisture by evaporation directly from the surface of the soil. Later the tanks were further protected from temperature changes by pieces of board sheathings cut to fit around tanks. 1921
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Hilgardia, Vol. 2, No. 6, Fig. 29.

Box 66:466  800-M-a-11  Equipment for water relations studies. Mt. View, California. 1921
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:467  800-M-a-12  Equipment for water relations studies. Tree 22, in a tank automatically balanced so that small losses of moisture by transpiration could be measure. Photograph taken May, 1921, just after the apparatus had been moved from Davis to Mt. View. Later the tank was fitted with a cover and a wider rim and a low protecting wall was built around the apparatus to protect it from winds. (Hilgardia, Fig. 26.) 1921 May
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:468  800-M-a-13  Equipment for water relations studies. Tank automatically balanced so that small losses of moisture by transpiration could be measured. Mt. View. 1921 May
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. 658

Box 66:469  800-M-a-14  Tank automatically balanced so that small losses of moisture by transpiration could be measure. Mountain View. 1921
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:470  800-M-a-15  Automatically balanced tank for measuring small losses of moisture by transpiration, Mt. View. 1921
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:471  800-M-a-16  Automatically balanced tank for measuring small losses of moisture by transpiration, Mountain View. 1921
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 66:472  800-M-a-17  Installing water-jacket soil tanks for irrigation investigation at Pomona sub-station. 1903 June 20
   Photographer: Stover, Arthur P.
   Scope and Content Note
| Box 66:473 | 800-M-a-18 Preliminary trial with automatic balanced tank, Davis. 1919  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:474 | 800-M-a-19 Preliminary trial with automatic balanced tank, Davis, Cal. 1919  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:475 | 800-M-a-20 (Data files 573.2.2) general view of tank equipment for water-relations and evaporation studies at Davis. (Picture too large for photograph files.) 1923  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:476 | 800-M-a-21 Tanks and weighing equipment used in alfalfa studies. 1929  
Photographer: M.R.H.  
Scope and Content Note |
| Box 66:477 | 800-M-a-22 Soil moisture tanks being installed in lower unit of Reclamation District 999 for planting of sugar beets. This study was for the purpose of studying effects of water table and also the water requirements of beets. Results are reported in Project 747. 1926  
Photographer: Brown, L.N.  
Scope and Content Note |
| Box 66:478 | 800-M-a-23 Two-compartment tanks used for studies on use of water by field crops in Reclamation District 999. 1927  
Photographer: Brown, L.N.  
Scope and Content Note |
| Box 66:479 | 800-M-a-24 View of tank equipment for water relations studies looking south. Branch of the College of Agriculture, Davis, Calif. 1927  
Photographer: Huberty, Martin H.  
Scope and Content Note |
| Box 66:480 | 800-M-a-25 View of tank yard, Davis, 1927, FJ Veihmeyer. 1927  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:481 | 800-M-a-26 Photographs taken by Augusto Alfani of Florence, Italy when on a visit here in 1936. Views of tanks used in soil moisture studies, University Farm, Davis, Calif. undated  
Photographer:  
Scope and Content Note |
| Box 66:482 | 800-M-a-28 Automatic irrigator and recorder with cotton plant. 1938 April 26  
Photographer: Johnston, C.N.  
Scope and Content Note |
| Box 66:483 | 800-M-a-29 Tank yard, Davis. Equipment to study relation of water, soils and plants. 1926. 1926  
Photographer: Veihmeyer, Frank J.?  
Scope and Content Note |
Box 66:484  
800-M-a-30a800-M-a-30b800-M-a-30c  
A. Tank yard. University Farm, Davis. F.J. Veihmeyer.  
b. Tank yard., University Farm, Davis.  
c. A.W. Sampson's tanks.  
Lysimeter experiment. Berkeley, Calif. 1937  
Photographer: Garstka, W.W.  
Scope and Content Note

Box 66:485  
800-M-b-1  
Wilting coefficient. Rate of transpiration experiments, illustrating narrow range of moisture in which wilting occurs. Cans 102, 104, plants fully turgid. 1929 March 26  
Photographer: Veihmeyer, Frank J. and McKinnon, Lewis Ruble  
Scope and Content Note  
Slide No. 8714. Plant in can 104 is a typical plant at high moisture content. Those in cans 94, 101, 105, and 97 show successive stages of wilting. The cans contain approximately the same amount of soil and the tare weight of the cans was the same. Therefore the wts. indicate moisture content. Can 102 weighs 847.0 grams and plant is fully turgid. Can 94 weights 845.3 grams (the lower leaves are just beginning to droop). Can 101 weights - 843.9 grams. Can 105 weighs - 843.1 grams. Can 97 weighs - 841.4 grams.

Box 66:486  
800-M-b-2  
Wilting of plant experiments. Sunflowers in small cans. Upper row shows wilted plants growing in different soils. Lower row shows plants revived in about 60 minutes after watering. 1930  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note  
Slide No. 700

Box 66:487  
800-M-b-3  
Pomology 3820. 1928 February 10  
Photographer: Hendrickson, A.H.  
Scope and Content Note

Box 66:488  
800-M-b-5  
General view of cheesecloth shelter used to reduce evaporation conditions in water relations studies. 1929  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note  
Slide No. 665

Box 66:489  
800-M-b-6  
Pomology No. 3823. Cans and equipment for determination of permanent wilting percentage. Note sealed tops with opening for plants. 1929  
Photographer: Hendrickson, A.H.  
Scope and Content Note

Box 66:490  
800-M-b-7  
Wilting of plants: 800 cans with 32 kinds of plants 1929  
Photographer: Veihmeyer, Frank J. - Hendrickson, A.H.  
Scope and Content Note

Box 66:491  
800-M-b-8  
(Pomology Neg. No. D-4096) Small negative in our files and extra print. Wilting of plants on continuously moving turn table with constant environmental conditions. 1929 March 21  
Photographer: Hendrickson, A.H. - McKinnon, Lewis Ruble  
Scope and Content Note  
Slide No. 667
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<th>800-M-b-9 Sunflowers used in wilting experiments. undated</th>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<tr>
<th>Box 66:493</th>
<th>800-M-b-10 Sunflower plants permanently wilted. This picture and the one following are shown in picture 800-M-b-9. Plants O-39, O-44, and O-67 were wilted in the open. Plants O-38, O-47, and O-32 were wilted in glass moisture chamber. 1928 May 29</th>
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<tr>
<td></td>
<td>Photographer: Veihmeyer, Frank J.</td>
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<th>Box 66:494</th>
<th>800-M-b-11 Dwarf sunflower plants revived approximately 60 minutes after wilting. These are the same plants shown in preceding picture. Plants 39, 44, and 67 were wilted in the open; plants 38, 47, and 32 were wilted in a glass moisture chamber. 1928 May 29</th>
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<td></td>
<td>Photographer: Veihmeyer, Frank J.</td>
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<th>800-M-b-12 Wilting experiments, 1926, showing cloth shelter. 1926</th>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<th>800-M-b-13 Wilting of plant experiments according to the Caldwell method. 1926. 1926</th>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<th>800-M-b-17 Wilting experiments with sunflowers. 1927</th>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<th>800-M-b-18 Wilting experiments, 1927, showing corn plants. 1927</th>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<tr>
<th>Box 66:502</th>
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<td></td>
<td>Photographer: McKinnon, Lewis Ruble</td>
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| Box 66:503 | 800-M-b-20 Cactus growing about 100 yards west of Apricot Schoolhouse 2 miles west of Winters on Monticello road. Umbrella tree showed no signs of wilt. When seen on December 9, 1931, cactus had fully recovered and was turgid. 1931 September  
Photographer: Givan, C.V.  
Scope and Content Note |
| Box 66:504 | 800-M-b-21 Same cactus as shown in preceding view, revived after winter rains. 1932 January  
Photographer: Huberty, Martin R.  
Scope and Content Note |
| Box 66:505 | 800-M-b-22 Showing sunflower plants used for permanent wilting percentage of soils from Firebaugh area growing in greenhouse, Davis. 1932 June  
Photographer: Schultz, L.C.  
Scope and Content Note |
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:507 | 800-M-b-24 Hilg. 2(6):125-291. Jan., 1927. Some factors affecting the irrigation requirements of deciduous orchards. By F.J. Veihmeyer. Fig. 18. Condition of trees in the unirrigated row 9 on Aug. 2, 1919. Much less wilt is shown than in fig. 17. 1919 August 2  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:508 | 800-M-b-25 Hilg. 2(6):125-291. Jan., 1927. Some factors affecting the irrigation requirements of deciduous orchards. By F.J. Veihmeyer. Fig. 19. Condition of trees in irrigated row 3 on Aug. 2, 1919. The heavier foliage and absence of wilting is evident when this figure is compared with figures 17 and 18. 1919 August 2  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 66:510 | 800-M-b-27 No Neg. Soil moisture studies. View of tanks, Branch of the College of Agriculture, Davis, California, with F.J. Veihmeyer and Roy Wray in the center. Taken by Sadao Yasuda, Professor of Plant Breeding, Taihoku Imperial University, Taihoku, Japan, when on a visit to Davis April 7, 1937. 1937 April 7  
Photographer:  
Scope and Content Note |
Box 66:511  800-M-b-27  Lantern slide negative. (Pom. Div. has print neg. D-4247, 4248) Hopi Indian corn plant wilted (left); revived 75 minutes after water was added to soil (right) 1930 March 1  
  Photographer: Hendrickson, A.H., Veihmeyer, Frank J.  
  Scope and Content Note  
  Slide No. S-1208

Box 66:512  800-M-b-28  Thistle plants in YC soil; lower, wilted; Upper, revived two hours after water was added. Pomology negative - D4245, D4246. 1930 March 1  
  Photographer: Veihmeyer, Frank J., AHH  
  Scope and Content Note

Box 66:513  800-M-b-30  Strawberry plant growing in Madera silt loam in double walled pot, inner wall of which is a porous. Plant is extracting water under a suction of 23 1/2 inches of mercury. Note plant is completely turgid. (M.E. 16.83; PWP 6.97) See also 800-M-b-31 1937 June 14  
  Photographer: Veihmeyer, Frank J., Edlefsen, Niels E.  
  Scope and Content Note

Box 66:514  800-M-b-31  Same strawberry plant as in previous view. Plant was irrigated and allowed to stand one hour before photograph was taken. Note soil is wet with 0 "suction). 1937 June 14  
  Photographer: Veihmeyer, Frank J., Edlefsen, Niels E.  
  Scope and Content Note

Box 66:515  800-M-b-32  2 negs. Later photograph of strawberry plant shown in 800-M-b-30 and 31. 1937 June 21  
  Photographer: Veihmeyer, Frank J.  
  Scope and Content Note

Box 66:516  800-M-b-33  Strawberry in double walled pot, extracting water under a suction of 21 inches of mercury. 1937 July 12  
  Photographer: Veihmeyer, Frank J. and Edlefsen, Niels E.  
  Scope and Content Note

Box 66:517  800-M-b-34  Strawberry in double-walled pot 1937 June 3  
  Photographer: Veihmeyer, Frank J. and Edlefsen, Niels E.  
  Scope and Content Note

Box 66:518  800-M-c-1  Transpiration studies. Prune trees in tanks used to determine the loss of moisture by evaporation from bare twigs and branches during the dormant season. Tree 1 is on the right, tree 3 is in the center, and tree 6 is on the left. (Hilgardia, Vol. 2, No. 6, Pl. 3, Fig. 2) 1922  
  Photographer: Veihmeyer, Frank J.  
  Scope and Content Note

Box 66:519  800-M-c-2  Transpiration studies. Prune trees growing in tanks to determine loss of moisture by evaporation. 1922  
  Photographer: Veihmeyer, Frank J.  
  Scope and Content Note
<table>
<thead>
<tr>
<th>Box Number</th>
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<td>Box 66:520</td>
<td>800-M-c-3</td>
<td>Transpiration studies. Prune trees growing in tanks to determine loss of moisture by evaporation. 1922</td>
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<td>Box 66:521</td>
<td>800-M-c-4</td>
<td>Transpiration studies. Prune trees in tanks. 1922</td>
<td>1922</td>
<td>Veihmeyer, Frank J.</td>
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<td>Box 66:522</td>
<td>800-M-c-5</td>
<td>Transpiration studies. Prune trees in tanks. 1922</td>
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<td>Veihmeyer, Frank J.</td>
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<td>Box 66:523</td>
<td>800-M-c-6</td>
<td>Transpiration studies. Prune trees in tanks. 1922</td>
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<td>Veihmeyer, Frank J.</td>
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<td>Box 66:524</td>
<td>800-M-c-7</td>
<td>Transpiration studies. Prune trees growing in tanks. 1922</td>
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<td>Veihmeyer, Frank J.</td>
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<td>Box 66:525</td>
<td>800-M-c-8</td>
<td>Transpiration studies. Prune trees in tanks. 1922</td>
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<td>Veihmeyer, Frank J.</td>
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<td>Box 66:526</td>
<td>800-M-c-9</td>
<td>Transpiration studies. Prune trees in tanks. 1922</td>
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<td>Veihmeyer, Frank J.</td>
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<td>Box 66:527</td>
<td>800-M-c-10</td>
<td>Transpiration studies. Prune trees in tanks. 1922</td>
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<td>Veihmeyer, Frank J.</td>
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<td>Box 66:528</td>
<td>800-M-c-11</td>
<td>Transpiration studies. Prune trees in tanks. 1922</td>
<td>1922</td>
<td>Veihmeyer, Frank J.</td>
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<td>Box 66:529</td>
<td>800-M-c-12</td>
<td>Transpiration studies. Prune trees in tanks. The effect of differences in soil moisture on the condition of prune trees. Tree 3 on the left, and tree 5 on the right on soil below wilting coefficient. Tree 4 in the center on soil with moisture content near the wilting coefficient. (Hilgardia, Vol. 2, No. 6, Pl. 1, Fig. 1.) 1922</td>
<td>1922</td>
<td>Veihmeyer, Frank J.</td>
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<td>Box 66:530</td>
<td>800-M-c-13</td>
<td>Transpiration studies. (Hilgardia, Vol. 2, No. 6, Pl. 1, Fig. 2., p. 286.) Effect of differences in soil moisture on the condition of prune trees. Oct. 28, 1922. Tree 3 on the left, and tree 5 on the right on soil below wilting coefficient. tree 4 in the center on soil with moisture content near the wilting coefficient. 1922</td>
<td>1922</td>
<td>Veihmeyer, Frank J.</td>
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Series 1. Index of images 1895-1959

Box 66:531

800-M-c-14 Transpiration studies. (Hilgardia, Vol. 2, No. 6, Pl. 3, Fig. 1.) Fall condition of prune trees on water-logged soil, compared to that of a tree on soil near the wilting coefficient. The soil on which tree 12, on the left, and tree 14, on the right, were growing was water-logged throughout the growing season. Tree 13, in the center, was reduced nearly to the wilting coefficient; moisture content of soil being near wilting coefficient. 1922 October 18

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 66:532

800-M-c-15 The effect of soil moisture on the condition of prune trees in the fall. Tree 15, on the left, and tree 17, on the right, on soil with moisture content below the wilting coefficient. Tree 16, in the center on soil with moisture content near the wilting coefficient, (Hilgardia, Vol. 2, No. 6, Pl. 2, Fig. 1.) 1922 October 7

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 66:533

800-M-c-16 The effect of soil moisture on the condition of prune trees in the fall. Tree 19, in the center, and tree 20, on the right, on soil kept continuously above 16% moisture content. Tree 18 on left, on soil kept above 16% moisture content until the last week in Aug. when it was allowed to wilt but was revived, and the soil moisture content thereafter allowed to fluctuate between the max. field cap. and the wilting coefficient. Tree 18 on soil near wilting coefficient. (Hilgardia, Vol. 2, No. 6, Pl. 2, Fig. 2.) 1922 October 18

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 66:534

800-M-c-17 Transpiration studies. Prune trees in tanks. 1922

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 66:535

800-M-c-18 Transpiration studies. Prune trees growing in tanks. 1922

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 66:536

800-M-c-19 Transpiration studies. Prune trees in tanks. 1922

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 66:537

800-M-c-20 Transpiration studies. Prune trees in tanks. 1922

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 66:538

800-M-c-21 Transpiration studies. Prune trees in tanks. 1922

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 66:539

800-M-c-22 Transpiration studies. Prune trees in tanks. 1922

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 66:540

800-M-c-23 3-yr. old prune tree in tank weighing 1200 lbs. Lost 1250 lbs. water during 1921 season. Uncropped tank with same kind of soil lost 28 lbs. Mt. View. 1921

Photographer: Veihmeyer, Frank J.
Scope and Content Note
Box 66:541 800-M-c-24 3-yr. old prune tree in tank weighing 1200 lbs. Lost 1250 lbs. water during 1921 season. Uncropped tank with same kind of soil lost 28 lbs. Mt. View. 1921

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 66:542 800-M-c-25 Preliminary trials to automatically determine use of water by deciduous trees. Davis, Calif. Automatic weighing and recording device to determine rate of transpiration - total amt. of water required. Outer tank contains water with film of oil to prevent evaporation - inner tank balanced. Loss of moisture from soil through transpiration causes outer tank to rise sufficiently to come to balance. Surface of soil covered with parafine and coarse gravel. 1919

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 66:543 800-M-c-26 Transpiration studies. Prune trees in tanks. 1922

Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 66:544 800-M-c-27 Water requirements of deciduous fruit trees, work under project 633. See No. 1920 September

Photographer: Veihmeyer, Frank J.

Scope and Content Note


Photographer: Veihmeyer, Frank J.

Scope and Content Note

Box 66:546 800-M-c-29 Water requirements of deciduous fruit trees. See Nos. undated

Photographer: Scope and Content Note

Box 66:547 800-M-c-30 Water requirements of deciduous fruit trees. See Nos. undated

Photographer: Scope and Content Note

Box 66:548 800-M-c-31 Section of Lipman's moisture percentage experiment at Limonera Orchard, Santa Paula. Beginning at left, tanks 1, 2, and 3 maintained at 30 percent moisture, tanks 4, 5, and 6 at 28 percent moisture; and tank 7 at 26 percent moisture. undated

Photographer: Scope and Content Note

Box 66:549 800-M-c-32 Section of Lipman's moisture percentage experiment at Limonera Orchard, Santa Paula. Beginning at left, counting the portion of tank shown as 1, tank 1 maintained at 22 percent moisture; tanks 2, 3, and 4 at 20 percent moisture and tanks 5, 6, and 7 at 18 percent moisture. undated

Photographer: Scope and Content Note
800-M-c-33 Section of Lipman's moisture percentage experiment at Limonera Orchard, Santa Paula. Beginning at left tanks 1, 2, and 3 maintained at 16 percent moisture; tanks 4, 5, and 6 at 14 percent moisture. undated

Photographer:
Scope and Content Note

800-M-c-34 Section of Lipman's moisture percentage experiment at Limonera Orchard, Santa Paula. Beginning at left, tanks 1, 2, and 3 maintained at 12 percent moisture; tanks 4, 5, and 6 at 10 percent moisture. undated

Photographer:
Scope and Content Note

800-M-c-35 Tank experiment carried under the direction of Dr. C.B. Lipman near Santa Paula. In this experiment soil moisture percentages varying from 10 to 30 per cent are maintained, there usually being three trees for each moisture percentage, and with intervals of 2 percent between the groups. In the tanks on the right a moisture content of 10 percent is maintained and on the extreme left a moisture content of 30 percent. undated

Photographer:
Scope and Content Note

800-M-c-36 Section of Lipman's moisture percentage experiment at Limonera Orchard, Santa Paula. Beginning at left, tanks 1 and 2 maintained at 26 percent moisture; tanks 3, 4, and 5 at 24 percent moisture and tanks 6 and 7 at 22 percent moisture. undated

Photographer:
Scope and Content Note

800-M-c-37 Transpiration studies. Tree No. 1, French prune on Myrobalan root, grown with a water table 2 1/2 ft. from surface. Lower matted mass of roots grew below the water surface. Trunk and branches weighed 3 3/4 lbs. roots, 4 1/2 lbs. Tree planted in tank 4/15/19. (Hilgardia, Vol.2, No. 6, Fig. 24.) 1923 January 3

Photographer: Veihmeyer, Frank J.
Scope and Content Note

800-M-c-38 Transpiration studies. Development of roots of prune trees in tanks. Tree No. 6. 1923 February

Photographer: Veihmeyer, Frank J.
Scope and Content Note


Photographer: Veihmeyer, Frank J.
Scope and Content Note

800-M-c-40 Transpiration studies. 1923 January 30

Photographer: Veihmeyer, Frank J.
Scope and Content Note

Tree No. 22, French prune on Myrobalan root, normally irrigated. Trunk and branches weighed 3 1/2 pounds, roots 4 1/2 pounds. Tree was planted in tank 4/15/19. (Hilgardia, Vol. 2, No. 6, Fig. 25.)
| Box 67:3 | 800-M-c-41 Transpiration studies. Development of roots of prune trees in tanks. 1923  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:4 | 800-M-c-42 Transpiration studies. Development of roots of prune trees in tanks. 1923  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:5 | 800-M-c-43 Apricot tress in automatically balanced tank for study of rate of transpiration. Davis, California. 1932 September 8  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:6 | 800-M-c-44 *Hilgardia* Vol. 2, No. 6 1926  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:7 | 800-M-c-45 *Hilgardia*, Vol. 2, No. 6 1926  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:8 | 800-M-c-46 *Hilgardia* Vol. 2, No. 6 1926  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:9 | 800-M-c-47 *Hilgardia* Vol. 2, No. 6 - Veihmeyer, Frank J. 1926  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:10 | 800-M-c-48 *Hilgardia* Vol. 2, No. 6, Veihmeyer, Frank J. 1926  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:11 | 800-M-c-49 *Hilgardia* Vol. 2, No. 6 1926  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:12 | 800-M-c-50 *Hilgardia* Vol. 2, No. 6 - Veihmeyer, Frank J. 1926  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:13 | 800-M-c-51 *Hilgardia* Vol. 2, No. 6 1926  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:14 | 800-M-c-52 *Hilgardia* - Vol. 2, No. 6, Veihmeyer, Frank J. 1926  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
Box 67:16 800-M-c-54 Fig. 6, *Hilgardia* Vol. 2, No. 6 - Soil moisture conditions in Santa Clara Valley prune orchard No. 2 during 1919 and 1920. Rainfall indicated by the heights of solid black rectangles, and the amt. of irrigation is represented by the cross-hatched rectangles. 1926
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 67:17 800-M-c-55 Fig. 9, *Hilgardia* Vol. 2, No. 6. Soil moisture conditions in Santa Clara Valley prune orchard No. 3 during 1921 and 1922. 1926
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 67:18 800-M-c-56 Fig. 10, *Hilgardia* Vol. 2, No. 6 - Soil moisture conditions in the Santa Clara Valley prune orchard No. 4 during 1919 and 1920. 1926
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 67:19 800-M-c-57 Fig. 12, *Hilgardia* Vol. 2, No. 6. Soil moisture conditions in the Santa Clara Valley prune orchard No. 5 during 1919 and 1920. Rainfall shown by black rectangles; amount of irrigation water by cross-hatched rectangles. 1926
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 67:20 800-M-c-58 Fig. 15 of *Hilgardia* Vol. 2, No. 6, 1927. Soil moisture conditions in the Santa Clara Valley prune orchard No. 6 during 1921 and 1922. Rainfall is shown by black rectangles and amount of irrigation water by cross-hatched rectangles. undated
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 67:21 800-M-c-59 Figs. 41 and 42 *Hilgardia* Vol. 2, No. 6 1927. 1927
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note
  Fig. 42 contains 23 per cent moisture to soils containing 7 and 8% moisture

Box 67:22 800-M-c-60 Untitled undated
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 67:23 800-M-c-61 Transpiration studies, constant temperature room, Davis. Sunflower plants from turn table grown in nutrient solution. 1934 November 28
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 67:24 800-M-c-62 Sunflower plants grown in Yolo loam from sugar beet plots, Davis. Plants grown in constant temperature room on turntable, study of transpiration losses. 1934 November 28
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note

Box 67:25 800-M-c-63 Sunflower plants grown in Aiken loam in constant temperature room, turntable. Study of transpiration losses. 1934 November 28
  Photographer: Veihmeyer, Frank J.
  Scope and Content Note
Box 67:26  800-M-c-64 Sunflower plants wilted under constant temperature environment conditions on turn table, Davis. Plants growing in Aiken loam. See view 800-M-c-63, same plants two days earlier. 1934 November 30
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 67:27  800-M-c-65 Plants wilted under constant temperature environmental conditions on turntable, Davis. Plants growing in Yolo loam from sugar beet plots. See view 800-M-c-62 taken two days earlier. 1934 November 30
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 67:28  800-M-c-66 Sunflower plants grown in Aiken loam, Davis. Plants grown in constant temperature room on turntable study of transpiration losses. See views 800-M-c-63 and 800-M-c-64. 1934 December 4
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 67:29  800-M-c-67 Sunflower plants wilted under constant temperature environmental conditions on turntable, Davis. Plants growing in Aiken loam. See views 800-M-c-63 and 800-M-c-64. Also 800-M-c-66. 1934 December 4
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 67:30  800-M-c-68 Sunflower plants grown in Yolo loam from sugar beet plots, Davis. Plants grown in constant temperature room on turntable, study of transpiration losses. See views 800-M-c-62, 65, and 66. 1934 December 5
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 67:31  800-M-c-69 Sunflower plants wilted under constant temperature environmental conditions on turntable, Davis. Plants growing in Aiken loam. See views 800-M-c-63, 64, 66, and 67. 1934 December 9
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 67:32  800-M-c-70 Sunflower plants grown in Yolo loam from sugar beet plots, Davis. Plants grown in constant temperature room on turntable, study of transpiration losses. See views 800-M-c-62, 65, 66, and 68. 1934 December 9
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 67:33  800-M-c-71 Yolo silt loam experimental prune orchard. Treatment A, 3-6' depth. Soil with suction of 58 cm of mercury. Plants in can 209 same as those in can 292. May 7, 1935, 2 p.m. 1935 May 7
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. S1168

Box 67:34  800-M-c-72 Soil moisture. Dry plots. Tomatoes. 1934. 1934
   Photographer: Doneen, L.D.
   Scope and Content Note
   Slide No. S1172
Box 67:35 800-M-c-73 Soil moisture. Dry plots. Sugar beets. 1934. 1934
   Photographer: Doneen, L.D.
   Scope and Content Note
   Slide No. S 1173

Box 67:36 800-M-c-74 Transpiration experiments. C.R.B. No. 2 cans, Aiken loam. Dec. 1934. 1934 December
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. S1174

Box 67:37 800-M-c-75 Transpiration sunflowers, no. 2 cans. C.R.B. Dec. 1934. 1934 December
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. S1175

Box 67:38 800-M-c-76 Transpiration sunflowers, no. 2 cans. C.R.B., Dec. 1934. 1934 December
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. S1176

Box 67:39 800-M-c-77 Transpiration sunflower plants in orchard heaters. Constant temperature room, C.R.B. 1929
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. S 1177

Box 67:40 800-M-c-78 Osmotic solutions. Sunflower plants. undated
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. S1178

Box 67:41 800-M-c-79 Sand cultures with osmotic sucrose solutions. Sunflowers. undated
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. S 1179

Box 67:42 800-M-c-80 Sand cultures with osmotic sucrose solutions. Sunflowers. undated
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. S1180

Box 67:43 800-M-c-81 Peachese F.7 Dry plot. 1935. Depth 0-3, 3-6, 6-9, 9-12; P.W.P. 9.4, 7.6, 6.6, 7.6 1935
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
   Slide No. S1181
Box 67:44  800-M-c-82 Test on automatic irrigators in constant temperature room for use in transpiration studies. 1937 May 27
   Photographer: Johnston, C.N.
   Scope and Content Note
   See also 800-M-c-83

Box 67:45  800-M-c-83 Test of automatic irrigators in constant temperature room, developed for use in transpiration studies. 1937 May 27
   Photographer: Johnston, C.N.
   Scope and Content Note

Box 67:46  800-M-c-84 Soil fully wet. Panel 5, Photo 1. Irrigation Exhibit, Golden Gate International Exposition, Treasure Island. 1939
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 67:47  800-M-c-85 Half the available water is gone. Panel 5, photo 2. Irrigation Exhibit, Golden Gate International Exposition, Treasure Island. 1939
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 67:48  800-M-c-86 Only one tenth of the available water remains yet the plant shows no distress. Panel 5, Photo 3. Irrigation Exhibit, Golden Gate International Exposition, Treasure Island. 1939
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 67:49  800-M-c-87 All available water is exhausted. The plant is at the P.W.P. Panel 5, photo 4. Irrigation Exhibit, Golden Gate International Exposition, Treasure Island. 1939
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

Box 67:50  800-M-c-88 Transpiration rates in relation to moisture content of the soil. C.A. Taylor residence, Monroe St., Pomona, Calif. 1934 Summer
   Photographer: Adams, Frank
   Scope and Content Note
   a. Sour orange seedling in 7,000 grams of soil on Toledo scale reading to 0.1 gram on table. Duplicate on top of framework in upper left of picture, Amount recorded on Fergusson rain gage. Also, a sunflower on 500 grams soil on cement balance on table. b. Sour orange seedling in 7,000 grams of soil on Toledo scale reading to 0.1 gram. Sunflower in 500 grams of soil on cement balance.

Box 67:51  800-M-c-89 With any given soil all plants wilt at the same moisture content, the P.W.P. Panel 5, upper. Photo 5. Irrigation Exhibit, Golden Gate International Exposition, Treasure Island, 1939. 1939
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note
| Box 67:52 | 800-M-d-1 Scalding Study - Dead trefoil plant found in irrigated pasture on Conway Ranch, NE of Davis. The soil is a heavy, impermeable clay, and had been irrigated 2-3 days previously. Throughout the border there were visible dead trefoil plants in small depressions where water might have stood longer, and usually there were bald spots of bare earth surrounding these dead plants, where other fescue grass, quite vigorous, and trefoil, which scalded pretty badly, though it seems to be more tolerant than alfalfa. The week during which these events occurred had maximum air temperatures of 105 to 112 degrees F. Irrigation water from Sacramento River. 1950 August 19  
Photographer: Hagan, Robert Mower  
Scope and Content Note |
| Box 67:53 | 800-M-d-2 Scalding study - dead alfalfa plants found in irrigated pasture on Conway Ranch, NE of Davis. The soil is heavy impermeable clay, and was still soggy from an irrigation one or two days previously. The dead alfalfa was very noticeable throughout the border, surrounded by vigorous growth of fescue grass, trefoil, and ladino clover. The alfalfa scalded out especially in localized low spots in the field. The week during which these events took place had maximum air temperature of 105 to 112 degrees F. Irrigation water is Sacramento River Water. 1950 August 19  
Photographer: Hagan, Robert Mower  
Scope and Content Note |
| Box 67:54 | 800-M-d-3 Scalding Study - Dead Alfalfa plants found in irrigated pasture on Conway Ranch, NE of Davis. The soil is a heavy impermeable clay, and was still soggy from an irrigation one or two days previously. The dead alfalfa was very noticeable throughout the border, surrounded by vigorous growth of fescue grass, trefoil, and ladino clover. The alfalfa scalded out especially in localized low spots in the field. The week during which these events took place had maximum air temperatures of 105 to 112 degrees F. Irrigation water is Sacramento River water. 1950 August 19  
Photographer: Hagan, Robert Mower  
Scope and Content Note |
| Box 67:55 | 800-M-e-1 Root extension of prune tree into post hole during growing season. Ellis place, Marysville. 1924  
Photographer: Huberty, Martin R.  
Scope and Content Note |
| Box 67:56 | 800-M-e-2 (Pom. Neg. D-4270) The accumulation of roots of plants in the moist soil in the immediate vicinity of the porous clay auto-irrigators. 1930 May 1  
Photographer: McKinnon, Lewis Ruble  
Scope and Content Note |
| Box 67:57 | 800-M-e-3 Sunflower and bean plants in waxed wire basket surrounded with dry soil. The wilting of the plants indicates that the roots have permeated the soil inside the basket. 1930 April 30  
Photographer: Vehmeyer, Frank J., McKinnon, Lewis Ruble  
Scope and Content Note  
Slide No. 5729 |
| Box 67:58 | 800-M-e-4 Influence of dry soil on root extension. Roots pushed through the holes in the bottom plate of the waxed wire basket and grew into the moist soil. This is a bottom view of the basket shown in Picture no. 800-M-e-3. 1930 August 1  
Photographer: Hendrickson, A.H.  
Scope and Content Note |
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<tr>
<th>Box 67:59</th>
<th>800-M-e-5 (Pom. Neg. 4365) Penetration of roots through the waxed partition when there was moist soil on both sides. 1930 May 1</th>
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<td>Photographer: McKinnon, Lewis Ruble</td>
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<tr>
<th>Box 67:60</th>
<th>800-M-e-6 (Pom. Neg. D-4266) Matted roots around porous clay auto-irrigators in root extension into dry soil studies. 1930 May 10</th>
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<tr>
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<td>Photographer: McKinnon, Lewis Ruble</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 67:61</th>
<th>800-M-e-7 (Pom. Neg. D-4263) Sunflower plants grown in galvanized iron troughs, divided into three sections which are separated by waxed partitions and contain wet and dry soil. Center section covered with glass contains the dry soil. 1930 April 30</th>
</tr>
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<tr>
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<td>Photographer: Veihmeyer, Frank J., McKinnon, Lewis Ruble</td>
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<tr>
<td></td>
<td>Slide No. S712 The sunflowers and beans have been allowed to wilt.</td>
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<td>Photographer: Veihmeyer, Frank J., McKinnon, Lewis Ruble</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Slide No. S713 The same troughs and plants shown in picture 800-M-e-7 after the plants have been revived by watering. The plants recovered within about 2 hours.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 67:63</th>
<th>800-M-e-9 (Pom. Neg. D4268) The accumulation of roots of plants in the moist soil in the immediate vicinity of the porous clay auto-irrigators. 1930 May 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: McKinnon, Lewis Ruble</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Slide No. S698</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Box 67:64</th>
<th>800-M-e-10 (Pom. Neg. D-4272) The waxed wire basket with sunflower and bean plant which had been surrounded with dry soil for 47 days. 1930 May 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hendrickson, A.H.</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Slide No. S694 Roots penetrated wax seal but extended only several millimeters into the dry soil.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 67:65</th>
<th>800-M-e-11 (Pom. Neg. 4365) The can containing the waxed wire basket with the plants, sunflower and soy benas, was cut to expose the soil. 1930 August 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hendrickson, A.H..</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Slide No. G695 The roots came through the wax and grew into the soil on the outside of the basket which had been kept moistened for about 45 days.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 67:66</th>
<th>800-M-e-12 (Pom. Neg. D-4269) Trough used to test effectiveness of auto-irrigators in distributing moisture. 1930 May 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: McKinnon, Lewis Ruble</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Most of the roots were close to the irrigators, none had penetrated through the wax seals into the center section.</td>
</tr>
</tbody>
</table>
Box 67:67 800-M-e-13 View showing extent of root distribution of mature apricot tree, University Farm, Davis. Excavated in 1924 (several views). 1924 January 29
   Photographer: Huberty, Martin H. and Veihmeyer, Frank J.
   Scope and Content Note

Box 67:68 800-M-e-14 Another view of root distribution of mature apricot tree shown in preceding picture. 1924 January 29
   Photographer: Huberty, Martin H., Veihmeyer, Frank J.
   Scope and Content Note

Box 67:69 800-M-e-15 View of mature apricot tree, University Farm, on which observations were made of the root distribution. Pictures 800-M-e-13 and 14 show the extent of distribution. 1924 January 29
   Photographer: Huberty, Martin H., Veihmeyer, Frank J.
   Scope and Content Note

Box 67:70 800-M-e Extension of root growth of cotton plants, San Joaquin Valley. See 800-C-c-32, 33, 34, 35, 36, 37, 40, 41, 42, 43, 44, 45, 46, 47, 48, 50, 51 1931
   Photographer: Schultz, L.C.
   Scope and Content Note

Box 67:71 800-M-e Root distribution of sugar beets by extraction of moisture at various dates during season before irrigation. See 800I-c-1, 800-I-c-2. See lantern slide picture and negative. undated
   Photographer: Doneen, L.D.
   Scope and Content Note
   Slide No. S1166, S1167

Box 67:72 800-M-f-1 Fig. 20-Areas of cross-section of trunks of Muir Peach trees, Davis. --Hilgardia Vol. 2, No. 6 - Veihmeyer, Frank J. 1926
   Photographer: Veihmeyer, Frank J.
   Scope and Content Note

   Photographer: Pomology Division
   Scope and Content Note

   Photographer: Pomology Division
   Scope and Content Note

   Photographer: Pomology Division
   Scope and Content Note

   Photographer: Pomology Division
   Scope and Content Note

Photographer: Pomology Division
Scope and Content Note


Photographer: Pomology Division
Scope and Content Note


Photographer: Pomology Division
Scope and Content Note


Photographer: Pomology Division
Scope and Content Note


Photographer: Pomology Division
Scope and Content Note

800-M-f-14 Imperial Valley. Experiment Farmer, University of California. These trees all planted same time. End trees receive sufficient water. Those in middle dying for want of water. Grade of irrigating furrow too steep with insufficient penetration of water. 1917 July 5

Photographer: Veihmeyer, Frank J.
Scope and Content Note

800-M-f-16 Availability of water to plants; sunflowers in Yolo clay soil, moisture contents 30, 23, 20, 16, 15, 14.5% on successive dates undated

Photographer: Slide No. S-1097 Illustrates the narrow range at which wilting occurs. On Feb. 26 soil moisture content was at 30% or field cap. Feb. 27 at 23%; Feb. 28 at 20%; Feb. 29- 16%, March 1 - 15%, March 2, 14 1/2%. No noticeable drooping of the leaves until moisture content reached 16% and very rapid change between 16% and 15%. Permanently wilted at 14 1/2%.

800-M-f-17 Wet and dry plots, Babera grapes, Pattey vineyard. Asti Sonoma County. Mr. Hendrickson standing in vineyard. 1938 August 23

Photographer: Veihmeyer, Frank J.
Scope and Content Note
<table>
<thead>
<tr>
<th>Box 67:85</th>
<th>800-N-a</th>
<th>Tanks and weighing equipment used in alfalfa studies (See 800-M-a-21) undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer:</td>
<td></td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
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<thead>
<tr>
<th>Box 67:86</th>
<th>800-N-d</th>
<th>Sugar beets growing in tanks in use of water studies. Reclamation Dist. 999 (See 800-D-a-15) undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Brown, L.N.</td>
<td></td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Box 67:87</th>
<th>800-N-e-1</th>
<th>Water requirement studies. Prune orchard No. 2, Santa Clara Valley, Calif. showing condition of soil and trees. (Hilgardia, Vol. 2, No. 6, Fig. 1) 1920 October 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Veihmeyer, Frank J.</td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

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<thead>
<tr>
<th>Box 67:88</th>
<th>800-N-e-2</th>
<th>Irrigated and unirrigated orchards. The irrigated allows early starting of cover crop which probably justifies the expense of irrigation even if no other benefit were derived from the application of water. 1920 October</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Veihmeyer, Frank J.</td>
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<td>Scope and Content Note</td>
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<thead>
<tr>
<th>Box 67:89</th>
<th>800-N-e-3</th>
<th>Irrigation of orchard No. 4. The same amount of water is applied in basins around each tree, insuring a uniform distribution of moisture. (Hilgardia, Vol. 2, No. 6, Fig. 3.) 1920 November 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Veihmeyer, Frank J.</td>
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<td>Scope and Content Note</td>
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</tbody>
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<tr>
<th>Box 67:90</th>
<th>800-N-e-4</th>
<th>Water requirements of deciduous orchards. Condition of trees, orchard No. 5 on Nov. 1, 1920. Santa Clara Valley, Cal. (Hilgardia, Vol. 2, #6, F.2.) 1920 November 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Veihmeyer, Frank J.</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 67:91</th>
<th>800-N-e-5</th>
<th>Water requirement studies. View from Bowden’s tank house, Santa Clara Valley. Experimental prune orchard, showing line of demarcation between the two orchards, one irrigated and the other unirrigated. 1921</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Veihmeyer, Frank J.</td>
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<thead>
<tr>
<th>Box 67:92</th>
<th>800-N-e-6</th>
<th>Water requirement studies. View from Bowden’s tank house, Santa Clara Valley. Experimental prune orchard, showing line of demarcation between the two orchards, one being irrigated and the other unirrigated. 1921</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Veihmeyer, Frank J.</td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<th>Box 67:93</th>
<th>800-N-e-7</th>
<th>Water requirement studies. View from Bowden’s tank house, Santa Clara Valley. Experimental prune orchard, showing line of demarcation between the two orchards, one being irrigated and the other unirrigated. 1921</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Veihmeyer, Frank J.</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Box 67:94</td>
<td>800-N-e-8</td>
<td>Irrigating “A” treatment plots, experimental prune orchard University Farm, Davis. 1931 August 29</td>
</tr>
<tr>
<td>Box 67:95</td>
<td>800-N-e-9</td>
<td>Row 1, Tree 7 in Experimental Prune orchard, Davis at 12 years of age. 1929 January 15</td>
</tr>
<tr>
<td>Box 67:96</td>
<td>800-N-e-10</td>
<td>Shows conditions of plots (Northern California black walnut stock) after water has drained away. Plot B, Field 7, Orchard irrigation experiments, Davis. 1935 July 5</td>
</tr>
<tr>
<td>Box 67:97</td>
<td>800-N-e-11</td>
<td>Effect of Northern California black walnut stock of frequent submergence during growing season. Plot F, Field 7, Orchard irrigation experiments, Davis. 1935 July 5</td>
</tr>
<tr>
<td>Box 67:98</td>
<td>800-N-e-12</td>
<td>Similar to 800-N-e-11. Effect of Northern California black walnut stock of frequent submergence during growing season. Plot F, Field 7, Orchard irrigation experiments, Davis. 1935 July 5</td>
</tr>
<tr>
<td>Box 67:99</td>
<td>800-N-e-13</td>
<td>Effect of prune trees of frequent submergence during growing season. Plot F, Field 7, orchard irrigation experiments, Davis. 1935 July 5</td>
</tr>
<tr>
<td>Box 67:100</td>
<td>800-N-f-1</td>
<td>Untitled undated</td>
</tr>
<tr>
<td>Box 67:101</td>
<td>800-N-f-2</td>
<td>Untitled undated</td>
</tr>
<tr>
<td>Box 67:102</td>
<td>800-N-f</td>
<td>For diagram showing soil moisture fluctuations in Shafer and Carroll Brothers citrus plots for season of 1928 see - 790-22 undated</td>
</tr>
<tr>
<td>Box 67:103</td>
<td>750-Z-32</td>
<td>Irwin apple orchard, Sonora, California. Attempt to irrigate hillside orchard by means of ditches at considerable distance apart. Trees next to ditches noticeably bigger than others. Failure of this scheme due to lack of movement of water laterally by capillarity. 1919 November</td>
</tr>
</tbody>
</table>
Box 67:104  760-Z-102 Field of Durango Cotton planted by the San Joaquin Valley Farm Lands Company near San Joaquin City. 1917 November  
Photographer: Adams, Frank  
Scope and Content Note  
This field showed a very satisfactory growth and large production of bolls which were well opened when visited October 29.

Box 67:105  785-A-17 Long Lake, upper water shed of Middle Fork of Feather River. Mt. Elwell on left. undated  
Photographer:  
Scope and Content Note

Box 67:106  785-A-18 Looking south across Long Lake from part way up Mt. Elwell on upper water shed of Middle Fork of Feather River. 1920 September  
Photographer: Adams, Frank  
Scope and Content Note

Box 67:107  785-C-12 Land reserved for Civic Center, State Land Settlement Colony. undated  
Photographer: Adams, Frank  
Scope and Content Note

Box 67:108  785-Z-46 Typical Desert Vegetation Above Little Rock Creek Irrigation District California. 1915 June 29  
Photographer: Hutchins, Wells A.  
Scope and Content Note  
This is the type of land which is being reclaimed in the District. On the right is a yucca palm.

Box 67:109  785-Z-100 Sand Dunes, Chuckawalla Valley, California. 1914 December  
Photographer: C.E.J.  
Scope and Content Note

Box 67:110  785-Z-126 Palo Verde and mesquite, characteristic vegetation northeast of Imperial Valley. undated  
Photographer: C.E.T.  
Scope and Content Note

Box 67:111  785-Z-140 At Harper's well, San Felipe desert, drilled for oil, struck flowing water, small amount. Water slightly salty but can be used. 80,000 irrigable all below sea level. 1913 December  
Photographer: C.E.T.  
Scope and Content Note

Box 67:112  785-Z-143 Largest Palo Verde on Colorado Desert, located in Mammoth Wash. 1915 January  
Photographer: C.E.T.  
Scope and Content Note

Box 67:113  785-Z-146 Palo verde and Greasewood (creosote) Chuckawalla Valley. 240,000 A. irrigable. 1915 January  
Photographer: C.E.T.  
Scope and Content Note
Box 67:114
785-Z-147 Carisso Springs on old Yuma San Diego trail. Water now used for irrigation of alfalfa but salty and results not good. 1913 December
Photographer: C.E.T.
Scope and Content Note

Box 67:115
785-Z-149 Yuma Desert, some irrigable land but no successful attempt for water. 1913 December
Photographer: C.E.T.
Scope and Content Note

Box 67:116
785-Z-150 Sand dunes near international boundary, Imperial Valley. Too large to level with teams. 1915 March
Photographer: C.E.T.
Scope and Content Note

Box 67:117
785-Z-159 Sand dune and Palo Verde edge of Colorado desert. 1915 January
Photographer: C.E.T.
Scope and Content Note

Box 67:118
785-Z-162 A wind blown sand hummock covered with mesquite, called "Mesquite Mine" Imperial Valley, Calif. 1903 July
Photographer: J.E.R.
Scope and Content Note

Box 67:119
785-Z-186 Looking toward Perris Valley from road to Lake Hemet. 1923 August
Photographer: Adams, Frank
Scope and Content Note

Box 67:120
785-Z-188 Portion of San Digueto or Santa Fe Irrigation District after clearing. undated
Photographer: Adams, Frank
Scope and Content Note

Box 67:121
785-Z-189 Looking southwest through the center of the area included within Red Rock Creek Irrigation District, Lassen County. 1925 June 18
Photographer: Adams, Frank
Scope and Content Note

Box 67:122
785-Z-207 General view, Mountain view, California. 1922
Photographer: Veihmeyer, Frank J.
Scope and Content Note

Box 67:123
785-Z-207-a Staff of Deciduous Fruit Experiment Station, Mountain View, Calif. 1922
Photographer:
Scope and Content Note

Box 67:124
785-Z-222 Mono Lake trip. undated
Photographer: Adams, Frank
Scope and Content Note

Box 67:125
785-Z-224 Agricultural Demonstration train (10 views) 1928
Photographer: Adams, Frank
Scope and Content Note
Box 67:126  785-Z-228 Desert Gila River Valley-Arizona undated
Photographer: Adams, Frank
Scope and Content Note

Box 67:127  785-Z-235 Fig. 1, House Document 359, International Water Commission Report,
Looking northwest across T. 9 S., R. 18 W., 5 miles south of Wellton, Gila River
Valley, Arizona. 1928
Photographer: Adams, Frank
Scope and Content Note

Box 67:128  785-Z-236 Fig. 4, House Document 359, International Water Commission Report
Looking southerly toward Baker Peaks from railroad 7 miles east of Wellton, Gila
River Valley, Arizona. 1928
Photographer: Adams, Frank
Scope and Content Note

Looking southeast across Tps. 9 and 10 S., Rs.11 and 12 W., Gila River Valley, Ariz.
1928
Photographer: Adams, Frank
Scope and Content Note

Box 67:130  785-Z-238 Typical area on the east side mesa above Imperial Valley in California. See
1928
Photographer: Adams, Frank
Scope and Content Note

Box 67:131  785-Z-239 Fig. 8, House Document 359, International Water Commission Report,
Looking northerly along line between Secs. 26 and 27, T.6s., R. 14W., Gila River
Valley, Arizona. 1928
Photographer: Adams, Frank
Scope and Content Note

Box 67:132  785-Z-240 Fig. 9, House Document 359, International Water Commission Report,
Looking north toward Palomas Mountains from near new Southern Pacific Railroad in
T. 6S., R. 13 W., Gila River Valley, Arizona. 1928
Photographer: Adams, Frank
Scope and Content Note

Box 67:133  785-Z-241 Fig. 12 in House Document 359, International Water Commission Report,
Typical area on the east side mesa above Imperial Valley in California. 1928
Photographer: Adams, Frank
Scope and Content Note

Typical area on the east side mesa above Imperial Valley in California. 1928
Photographer: Adams, Frank
Scope and Content Note
one extra print
| Box 67:135 | 785-Z-244 **Mojave Desert 1915**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| --- | --- |
| Box 67:136 | 785-Z-245 **Baldy Mesa Victor Wallet, Mojave River Studies 1917**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:137 | 785-Z-246 **General View of Mojave River Valley. 1917**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:138 | 785-Z-247 **General View of Mojave River Valley. 1917**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:139 | 785-Z-248 **View Victor Valley. General Character of land to be included in proposed Irrigation District (Mojave River Studies) 1917**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:140 | 785-Z-251 **See House Document 359 International Water Commission Report, United States and Mexico. Desert scene, similar to others found in this document. 1928**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 67:141 | 785-Z-252 **Group from Irrigation Investigations and Practice Division, Davis. Reading from left- Miss S. Asbill, Mr. J. B. Brown, R. Wray, L. D. Doneen, C. H. Hofmann, Miss B. M. Sawyer, and F. J. Veihmeyer. 1934**  
Photographer: Christiansen, Jerald Emmet.  
Scope and Content Note |
| Box 67:142 | 785-Z-253 **General view, Joshua palms, Victor Valley 1917**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
| Box 67:143 | 785-Z-256 **Yucca Plant 1932 April**  
Photographer: Adams, Frank  
Scope and Content Note |
| Box 67:144 | 785-Z-258 **Joshua tree on road to Las Vegas, N.M. 1932 April**  
Photographer: Adams, Frank  
Scope and Content Note |
Photographer: Adams, Frank  
Scope and Content Note |
| Box 67:146 | 785-Z-268 **Character of vegetation - "grease wood (Laurea) belt". Victor Valley. 191702**  
Photographer: Veihmeyer, Frank J.  
Scope and Content Note |
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 67:148  795-B-9 Drain in Drainage District No. 100 West of Cherokee Slough 1928 September 10
   Photographer: Dunshee, Carroll F.
   Scope and Content Note

Box 67:149  795-C-a-1 Newly constructed drain ditch, 8' deep. Constructed with wheel dredge. Imperial Irrigation District. (3 views) 1931 April
   Photographer: Christiansen, Jerald Emmet
   Scope and Content Note

Box 67:150  Don Pedro undated
   Photographer:
   Scope and Content Note
   Removed from between index cards 700-A-a-308 and 309

Series 2. Negatives and prints 1895-1952
   Physical Description: 23.2 linear feet
   Scope and Content Note
   This series contains the negatives (including glass plates negatives) and prints, many of which are described in the index. Please note that this finding aid does not describe the entire set of negatives and prints. Additional descriptions are forthcoming.

Box 1:1  700-A-a-143 Salter Fill, Modesto Irrigation District 1915 December 5
   Photographer: Hutchins, Wells A.
   Physical Description: 1 negative, 1 print
   Scope and Content Note
   This shows the downstream slope of the Salter Fill, ready for lining.

Box 1:2  700-A-a-144 Dam in Strawberry Furrow, Pajaro Valley, California 1915 August 26
   Photographer: Hutchins, Wells A.
   Physical Description: 1 negative, 2 prints
   Scope and Content Note
   These dams are placed at intervals of about 80 feet in furrows in a strawberry field where the furrows are given any grade. Their purpose is to hold back the irrigation water and thus to permit of an adequate irrigation at the upper ends of the furrows as well as at the lower ends. The reason for laying the furrows on a grade is to permit rain water to run off in the winter where the soil is so heavy that it does not absorb rain water as it falls. Otherwise the water would flood over the berry vines and injure them. These dams are of earth and are covered with cloth or paper to prevent their washing away. These excess water flows over the dam into the next section below.
Box 1:3  700-A-a-145 *Section of Morgan Fill, Turlock Irrigation District, Cal. 1915 December 1*
Photographer: Hutchins, Wells A.
Physical Description: 1 negative
Scope and Content Note
This shows the type of slate rock used for the two outer walls of this fill. The only hydraulic material was placed inside. Owing to the looseness of this slate rock, the fill has settled several inches. At the bottom of the picture is shown the lower end of the storm culvert beneath the fill.

Box 1:4  700-A-a-146 *Upper Dominici Fill, Modesto Irrigation District, Cal. 1915 December 5*
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note
On the east is a vertical cliff, showing where the fill has settled. The loose material at the top had recently wasted there and the rains started erosion.

Box 1:5  700-A-a-147 *West End of San Fernando Dam, Los Angeles Aqueduct, California. 1915 December 21*
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note
The aqueduct gate is shown on the hillside; also trestle of three pipes for sluicing.

Box 1:6  700-A-a-148 *Lower Slope of Hydraulicked Mockingbird Canyon Lake Dam, Riverside, California. 1915 December 14*
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note
The wasteway is shown on the right.

Box 1:7  700-A-a-149 *Raiden Fill, Modesto Irrigation District, California. 1915 February 5*
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note
This shows the upper side of the fill. The sand pump and sluiceway can be seen on the left of the picture.

Box 1:8  700-A-a-150 *Mockingbird Canyon Lake Dam, Riverside, California. 1915 December 14*
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note
This is the upper slope of the Dam, showing the core-wall. This picture and Picture No. 700-A-a-155 form a panorama.

Box 1:9  700-A-a-151 *Morgan Fill, Turlock Irrigation District, Cal. 1915 December 1*
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note
This view was taken looking up the canal.
Box 1:10  
700-A-a-152  **San Fernando Dam, Los Angeles Aqueduct, California. 1915 December 21**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
This picture was taken looking east. The drainage well is shown in the foreground.

Box 1:11  
700-A-a-153  **East End of San Fernando Dam, Los Angeles Aqueduct, California 1915 December 21**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
Earth is being hauled from the steam shovel and dumped in the crusher and sump, above the east end of the Dam.

Box 1:12  
700-A-a-154  **Diversion weir of Moore dam, Yolo Water and Power Co., Cache Creek 1914 August**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative  
Scope and Content Note

Box 1:13  
700-A-a-155  **Mockingbird Canyon Lake Dam, Riverside, California. 1915 December 14**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
This is the upper slope of the Dam, showing the core-wall. This picture and Picture No. 700-A-a-150 form a panorama.

Box 1:14  
700-A-a-156  **Brush Breakwater near Saugus, California. 1915 June 30**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 1:15  
700-A-a-157  **Indian Hill Hydraulic Fill, Modesto Irrigation District, Cal. 1915 December 5**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
On the right is shown the end of the hydraulicking flume. A portion of the concrete side lining in course of construction is shown in the distance adjoining the lining of the canal beyond the fill. The contract price of hydraulicking this fill was 24-1/2 cents per cubic yard for about 36,000 cubic yards of fill.

Box 1:16  
700-A-a-158  **La Grange Dam on Tuolumne River, La Grange, California. 1915 July 31**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 2 prints  
Scope and Content Note  
On the left is the headgate of the Modesto Canal, and at the right is the hillside through which the Turlock tunnel is constructed.
Box 1:17  700-A-a-159 Capay Dam of the Yolo Water & Power Co., Yolo County, Cal. 1914 November 27
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 2 prints
Scope and Content Note
This is a diversion dam situated on Cache Creek, several miles above Capay in Yolo County, completed February 1913, at a cost of $45,000. On the right is the headgate of Adams Canal which supplies water for lands on north side of Cache Creek. At the south end of the dam, just outside the picture, is a similar headgate for Winters Canal, which supplies lands in the neighborhood of Madison and thence south to Winters and east to Davis.

Box 1:18  700-A-a-160 Capay Dam of Yolo Water & Power Co., on Cache Creek, Cal. (See Picture No. 700-A-a-159) 1915 November 1
Photographer: Hutchins, Wells A.
Physical Description: 1 negative
Scope and Content Note

Box 1:19  700-A-a-161 Capay Dam of Yolo Water & Power Co., on Cache Creek, Cal. (See Picture No. 700-A-a-159) 1915 November 1
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note

Box 1:20  700-A-a-162 Diversion Dam and Head of East Ditch, Big Rock Creek Irrigation District, Cal. 1915 June 30
Photographer: Hutchins, Wells A.
Physical Description: 1 negative
Scope and Content Note
This picture was taken June 30, 1915, following a winter of very heavy rainfall, and it undoubtedly shows more water in Big Rock Creek than would be found at this time of the summer in a year of normal rainfall.

Box 1:21  700-A-a-163 Clear Lake Impounding Dam, Yolo Water & Power Co., near Lower Lake, Cal. 1914 November 28
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note
This is located at the first riffle in Cache Creek after leaving Clear Lake. The dam was completed October 1, 1914, at a cost of $80,000. The dam has 15 gates capable of discharging 12,000 cubic feet per second. On the right is the gate leading to the tunnel which is intended to supply water for power purposes lower down on Cache Creek.

Box 1:22  700-A-a-164 Part of Clear Lake Dam, Yolo Water and Power Company, near Lower Lake, California. 1914 November 28
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 2 prints
Scope and Content Note
This view represents the south end of this impounding dam. This picture and Pictures Nos. 166 & 167 form a panorama. For description of the dam see Picture No. 163. The picture was taken from the lower side.
| Box 1:23 | 700-A-a-165 **Raiden Fill, Downstream Side, and Looking Down Canal, Modesto Irrigation District, Cal. 1915 December 5**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
The sub-structure of the wooden flume can be seen projecting above the hydraulicked earth. |
| Box 1:24 | 700-A-a-166 **Part of Clear Lake Dam, Yolo Water and Power Company, near Lower Lake, California. 1914 November 28**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 2 prints  
Scope and Content Note  
This view represents the middle of the impounding dam. This picture and Pictures Nos. 164 & 167 form a panorama. For description of the dam see Picture No. 163. |
| Box 1:25 | 700-A-a-167 **Part of Clear Lake Dam, Yolo Water and Power Company, near Lower Lake, California. 1914 November 28**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 2 prints  
Scope and Content Note  
This view represents the north end of the impounding dam. This picture and Pictures Nos. 164 & 166 form a panorama. For description of the dam see Picture No. 163. |
| Box 1:26 | 700-A-a-168 **San Fernando Dam, Cal., Showing Outlet Towers. undated**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
This is a hydraulic filled dam, situated at the edge of San Fernando Valley, near San Fernando, on the line of the Los Angeles aqueduct. Water enters the reservoir from the aqueduct through a spillway on the left, not shown in the picture. A division box is located at the spillway and from that the main pipe line for the Los Angeles city supply passes through the left-hand tower. Water can also be taken into this pipe from the reservoir through the left-hand tower. The right-hand tower is the outlet to the San Fernando Irrigation District. |
| Box 1:27 | 700-A-a-169 **This, and the Succeeding Picture, Show Bassano Dam, on the Canadian Pacific Railroad Project, East of Calgary, Alberta, Canada. undated**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 3 prints  
Scope and Content Note |
| Box 1:28 | 700-A-a-170 **Submerged dam, Tujonga Wash, Los Angeles, county. 1916**  
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 1:29 | 700-A-a-172 **Bassano Dam, on the Canadian Pacific Railroad Project, East of Calgary, Alberta, Canada. (See Picture No. 169) undated**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
<table>
<thead>
<tr>
<th>Box 1:30</th>
<th>700-A-a-174</th>
<th>Restraining Dam of the Yolo Water and Power Company at the Outlet of Clear Lake, California. 1914</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.L.K.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 glass plate negatives</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Box 1:31</td>
<td>700-A-a-176</td>
<td>Diversion dam for feeder canal to supply East Park Reservoir Dam, from above, Orland Project, Cal. 1914</td>
</tr>
<tr>
<td></td>
<td>Photographer: J.L.K.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Box 1:32</td>
<td>700-A-a-177</td>
<td>Diversion Dam and Supply Canal to East Park Reservoir, Orland Project, California. 1914</td>
</tr>
<tr>
<td></td>
<td>Photographer: J.L.K.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Box 1:33</td>
<td>700-A-a-178</td>
<td>East Park Reservoir Dam, Orland Project, California. 1914</td>
</tr>
<tr>
<td></td>
<td>Photographer: J.L.K.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Box 1:34</td>
<td>700-A-a-179</td>
<td>Inner facing in the San Fernando Dam, Above the Los Angeles Aqueduct System, California. 1914 December</td>
</tr>
<tr>
<td></td>
<td>Photographer: J.L.K.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Box 1:35</td>
<td>700-A-a-180</td>
<td>Old Bear Valley Dam, San Bernardino County, California. undated</td>
</tr>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Box 1:36</td>
<td>700-A-a-181</td>
<td>Dam at outlet of McCoy Flat Reservoir on headwaters of Susan River, Lassen Co. 1917 July</td>
</tr>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
<td></td>
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<td></td>
<td>Scope and Content Note</td>
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</tr>
<tr>
<td></td>
<td>This reservoir is the property of the Lassen Irrigation Company. The dam was enlarged while the system was under the control of Scott McArthur prior to its sale to the farmers at Standish.</td>
<td></td>
</tr>
</tbody>
</table>
Box 1:37 700-A-a-182 Possible Dam Site in Bear River on Property owned by Ivan H. Parker of Auburn 1917 November
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 3 prints
   Scope and Content Note
   The width of the canyon at the bottom of the dam would be about 80 feet and with a hundred foot height the top width would be about 300 feet. The reservoir site back of this dam site was surveyed in 1904 as a proposed debris collecting basin. At an elevation of 75 feet above the present bed this survey gives the storage capacity as 7,500,000 cubic yards; at an elevation of 100 feet a storage capacity of 14,500,000 cubic yards or about 9000 acre feet. The elevation of this reservoir site is about 1800 feet according to Mr. Parker or about 450 feet above Auburn.

Box 1:38 700-A-a-183 Morena Dam, San Diego County, showing crest and lower face 1917 November
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 1:39 700-A-a-184 Morena Dam, San Diego County, showing crest and upper face. 1917 November
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note
   Moreno Reservoir was formerly one of the properties of the Southern California Mountain Water Co., but is now owned by the city of San Diego for a portion of its municipal supply. The height of the dam as completed in 1912 was 267 feet. The crest was raised 5 feet in 1916 in order to give a larger head over the spillway without overtopping during flood periods.

Box 1:40 700-A-a-185 New La Mesa Eastwood Type Multiple Arch Dam. Cuyamaca Water System, San Diego County, nearing completion 1918 January
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 3 prints
   Scope and Content Note
   This dam is 900 feet long and 113 feet high and was to be completed in January, 1918 at an approximate cost of $130,000.

Box 2:1 700-A-a-186 Central Arch of new La Mesa Multiple Arch Dam, Cuyamaca Water System, San Diego County 1918 January
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 2:2 700-A-a-187 Clearing Magalia Dam Site, Paradise Irrigation District 1917 July
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note
   The trench in the center is for puddled core. The reservoir made by the dam to be built at this site has a capacity of only 3200 acre-feet when built to a height of 90 feet. Two dams are necessary at this site, one where the clearing is under way and a smaller one where the trestle is shown at the extreme top center of the picture.
Box 2:3  700-A-a-189 Looking Down Stream from Big Meadows Dam. 1917 July
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note
On the left is shown uncompleted portion of Eastwood Multiple Arch Dam abandoned prior to construction of present dam.

Box 2:4  700-A-a-190 Big Meadows Dam of Great Western Power Company. 1917 July
Photographer: Adams, Frank
Physical Description: 2 glass plate negatives
Scope and Content Note
This is a hydraulic fill dam and has an impounding capacity of 300,000 acre-feet. The ultimate planned capacity with higher dam is 1,200,000 acre-feet.

Box 2:5  700-A-a-191 Looking down Stream from Big Meadows Dam 1917 July
Photographer: Adams, Frank
Physical Description: 1 glass plate negative
Scope and Content Note

Box 2:6  700-A-a-192 Power Company Dam across Merced River at Merced Falls. 1918 June 20
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 4 prints
Scope and Content Note

Box 2:7  700-A-a-193 Dam of San Joaquin and Kings River Canal and Irrigation Company across San Joaquin River south of Firebaugh. 1918 April 2
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 6 prints
Scope and Content Note
At the extreme right of the picture near the pile driver, the railing indicates the bulge at the southeast end of the dam. This weakening of this structure has lead the company to prepare plans for a concrete dam across the river to be placed slightly below.

Box 2:8  700-A-a-194 Crocker-Huffman Dam Across Merced River below Snelling. 1918 June 20
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 4 prints
Scope and Content Note

Box 2:9  700-A-a-195 Sweetwater Dam, San Diego County. undated
Photographer:
Physical Description: 1 glass plate negative
Scope and Content Note
Height of dam, 118 feet. Length of dam, 500 feet. Capacity of siphon spillway of six 6’ x 12’ Units, 16,000 cu. ft. per sec. Capacity of overflow spillways (center and south end of dam, 32,000 cu. ft. per sec). Total capacity of all spillways, 48,000 cu. ft. per second. Length of center overflow spillway, 236’. Length of south overflow spillway, 234’. Efficiency of siphon spillway figures at 70% under 36’ head.
<table>
<thead>
<tr>
<th>Box 2:10</th>
<th>700-A-a-200 Barrett dam site and temporary dam owned by city of San Diego, Calif. 1897? March</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 2:11</th>
<th>700-A-a-201 Brush dam across Cache Creek above Rumsey, Calif.; ruins of head of Clear Lake Water Works irrigating system. 1900</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 2:12</th>
<th>700-A-a-202 Cache Creek Dam, (below Proctor's pump) put in temporarily late in the season when irrigation by pumping is undertaken, Calif. 1900</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 2:13</th>
<th>700-A-a-203 Brush dam above Rumsey. Head of remains of old Clear Lake ditch; irrigating about 100 acres during the summer of 1900. Calif. 1900</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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</table>

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<thead>
<tr>
<th>Box 2:14</th>
<th>700-A-a-205 Temporary dam on Cache Creek, Calif. and pumping machinery user by Messers. Morrin and Batey on their ranches, north side of Cache Creek above the Nelson bridge. The engine in sight is that owned by S.V. Searlett. 1900</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 2:15</th>
<th>700-A-a-206 Rock and Brush Check Dam, Constructed by Los Angeles County in Haines Canyon, California. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

The double crest dissipates the force of the overflow. The dam is depressed where it will concentrate the overflow on the larger rock in the natural stream bed.

<table>
<thead>
<tr>
<th>Box 2:16</th>
<th>700-A-a-207 Rock Check Dam, Constructed by Los Angeles County in Haines Canyon, in Experimental Work on Flood Control, California. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 print</td>
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<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 2:17</th>
<th>700-A-a-210 Division and Control Gate on Ditch for Spreading Water on San Antonio Creek, California undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
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</table>

This view shows the general character of the spreading ground.

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**Inventory of the Department of Irrigation Photographs**

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<tr>
<th>Box</th>
<th>Number</th>
<th>Description</th>
<th>Date</th>
<th>Photographer</th>
<th>Physical Description</th>
<th>Scope and Content Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:18</td>
<td>700-A-a-211</td>
<td><strong>Mouth of San Antonio Canyon, California. undated</strong></td>
<td>(undated)</td>
<td>Tait, C.E.</td>
<td>1 print</td>
<td>This picture shows damaged concrete diversion dam for spreading water. The view shows the reinforcing rods from which the concrete has been worn away by debris carried by stream.</td>
</tr>
<tr>
<td>2:19</td>
<td>700-A-a-212</td>
<td><strong>Construction of Rock Levee faced with Boulders, Enclosed by Wire Mesh, on San Antonio Creek, California. undated</strong></td>
<td>(undated)</td>
<td>Tait, C.E.</td>
<td>1 print</td>
<td></td>
</tr>
<tr>
<td>2:20</td>
<td>700-A-a-213</td>
<td><strong>Rock Levee on San Antonio Creek, California. undated</strong></td>
<td>(undated)</td>
<td>Tait, C.E.</td>
<td>1 print</td>
<td>The drift on the face of the levee shows the height at which the flood water stood.</td>
</tr>
<tr>
<td>2:21</td>
<td>700-A-a-215</td>
<td><strong>Cuyamaca Dam, San Diego County, California. 1908</strong></td>
<td>1908</td>
<td>Tait, C.E.</td>
<td>1 negative, 1 print</td>
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<tr>
<td>2:22</td>
<td>700-A-a-216</td>
<td><strong>Dye Canon reservoir dam, Los Angeles Aqueduct. 1912</strong></td>
<td>1912</td>
<td>Tait, C.E.</td>
<td>1 negative</td>
<td></td>
</tr>
<tr>
<td>2:23</td>
<td>700-A-a-217</td>
<td><strong>New Eastwood Multiple Arch Dam, Below Old Bear Valley Dam, Crest of Latter Showing Above the Water Line, California. 1913</strong></td>
<td>1913</td>
<td>Tait, C.E.</td>
<td>1 negative, 2 prints</td>
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<tr>
<td>2:24</td>
<td>700-A-a-218</td>
<td><strong>Escondido dam, San Diego County, Calif. From lower side. 1895 August</strong></td>
<td>1895 August</td>
<td>Tait, C.E.</td>
<td>1 negative, 1 print</td>
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<tr>
<td>2:25</td>
<td>700-A-a-219</td>
<td><strong>Escondido Rock Fill Dam, San Diego County, California. 1910</strong></td>
<td>1910</td>
<td>Tait, C.E.</td>
<td>1 negative, 1 print</td>
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<tr>
<td>2:26</td>
<td>700-A-a-220</td>
<td><strong>Folsom dam taken from top of waste gate at side, Calif. 1900 May</strong></td>
<td>1900 May</td>
<td>Tait, C.E.</td>
<td>1 glass plate negative, 1 print</td>
<td></td>
</tr>
</tbody>
</table>
| Box 2:27 | 700-A-a-221 *Franklin Canyon Dam of the Los Angeles Aqueduct, Cal. 1914 April*  
Photographer: Tait, C.E.  
Physical Description: 1 negative, 3 prints  
Scope and Content Note |
| --- | --- |
| Box 2:28 | 700-A-a-222 *Hemet dam, southern California. 1993? January*  
Photographer: Tait, C.E.  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 2:29 | 700-A-a-223 *Laguna dam from California side of Colorado River. 1913 August*  
Photographer: Tait, C.E.  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 2:30 | 700-A-a-224 *La Grange Dam at the head of Modesto and Turlock Canals. At left is shown concrete spill at head of Modesto Canal. Calif. undated*  
Photographer:  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 2:31 | 700-A-a-225 *La Mesa dam, Cuyamaca Water Co., San Diego Co., Calif. 1908*  
Photographer: Tait, C.E.  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 2:32 | 700-A-a-226 *La Mesa Dam, San Diego County, California. Since submerged by construction of multiple arch Eastwood Dam, 1917. 1915 October*  
Photographer: Tait, C.E.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
Constructed by the San Diego Flume Co., now Cuyamaca Water Company. This is an hydraulic fill. |
| Box 2:33 | 700-A-a-227 *"Middle Dam" showing manner of laying logs, South Fork of Stanislaus River, Calif. undated*  
Photographer:  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 2:34 | 700-A-a-228 *Timber Crib Dam- Plank slope of "Middle Dam", South Fork of Stanislaus River, Calif. 1908*  
Photographer:  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 2:35 | 700-A-a-229 *Debris gathered at Middle Dam on South Fork of Stanislaus River, Cal. 1908*  
Photographer:  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
Box 2:36  700-A-a-230 **Old Mission Dam, San Diego River, California. 1914 March**
- Photographer: Tait, C.E.
- Physical Description: 1 negative, 3 prints
- Scope and Content Note

Box 2:37  700-A-a-231 **Mockingbird dam, Gage Canal Co. Hydraulic fill with concrete core. 1915 September**
- Photographer: Tait, C.E.
- Physical Description: 1 negative, 2 prints
- Scope and Content Note

Box 2:38  700-A-a-232 **Moore Dam, Calif. 1900**
- Photographer: Adams, Frank
- Physical Description: 1 glass plate negative, 1 print
- Scope and Content Note

Box 2:39  700-A-a-233 **Lower Otay dam, water at 60 ft. level, San Diego County, Calif. 1897? March**
- Photographer: Tait, C.E.
- Physical Description: 1 negative, 1 print
- Scope and Content Note

Box 2:40  700-A-a-234 **Lower Otay Dam, California. 1911 October**
- Photographer: Tait, C.E.
- Physical Description: 1 negative, 1 print
- Scope and Content Note
  Rockfill with steel core. Destroyed February 1916 by being overtopped - spillway inadequate.

Box 3:1  700-A-a-236 **Upper Otay Dam, California. 1911 October**
- Photographer: Tait, C.E.
- Physical Description: 1 negative, 1 print
- Scope and Content Note
  Built of concrete with reinforcement of old street railway cable. This is not a "gravity" dam and for that reason has been much criticized by engineers.

Box 3:2  700-A-a-237 **Upper Otay Dam, California. 1911 October**
- Photographer: Tait, C.E.
- Physical Description: 1 negative, 1 print
- Scope and Content Note
  This was built by the predecessor of the Southern California Mtn. Water Company (Spreckles Co.) now owned by San Diego City.

Box 3:3  700-A-a-238 **Upper Otay Dam, California. View taken from west end. 1911 October**
- Photographer: Tait, C.E.
- Physical Description: 1 negative, 1 print
- Scope and Content Note
  This was built by E.S. Babcock of San Diego, without services of an engineer.
Box 3:4  700-A-a-239 Remains of Pacoima submerged dam, San Fernando Valley near Los Angeles. 1915 February
    Photographer: Tait, C.E.
    Physical Description: 1 negative, 3 prints
    Scope and Content Note
    See description in Schuyler's book.

Box 3:5  700-A-a-240 Retaining dam on Lake Tahoe at mouth of Truckee, looking down river, Calif. 1900 October
    Photographer: Adams, Frank
    Physical Description: 1 glass plate negative, 1 print
    Scope and Content Note

Box 3:6  700-A-a-241 San Fernando Dam of the Los Angeles Aqueduct, Cal. 1915 February
    Photographer: Tait, C.E.
    Physical Description: 1 negative, 2 prints
    Scope and Content Note
    The south or lower side of the dam has no concrete facing. The municipal supply line is shown in the left background.

Box 3:7  700-A-a-242 San Fernando Dam of the Los Angeles Aqueduct, Cal. 1915 February
    Photographer: Tait, C.E.
    Physical Description: 1 negative, 1 print
    Scope and Content Note
    For description see Picture No. This picture was taken in the earlier days of construction and shows the building up of the hydraulic fill beyond the portion which was lined with concrete. On the right in the middle foreground is the tressle used in carrying the hydraulic discharge pipe from one side of the dam to the other. No each side of the dam is built up from one end to the other, continuously.

Box 3:8  700-A-a-243 San Mateo dam from reservoir site, showing riprapping at ends, Calif. undated
    Photographer: C.T.J.
    Physical Description: 1 negative, 2 prints
    Scope and Content Note

Box 3:9  700-A-a-244 San Mateo Dam from above, Calif. undated
    Photographer: C.T.J.
    Physical Description: 1 negative, 1 print
    Scope and Content Note

Box 3:10  700-A-a-245 San Mateo Dam. undated
    Photographer:
    Physical Description: 1 negative
    Scope and Content Note

Box 3:11  700-A-a-247 Submerged dam Arroya Seco near Devil's Gate, Pasadena, Calif. 1910
    Photographer: Tait, C.E.
    Physical Description: 1 negative, 3 prints
    Scope and Content Note
<table>
<thead>
<tr>
<th>Box 3:12</th>
<th>700-A-a-248 Sweetwater Dam, After Second Enlargement, Made in 1911. California. <strong>1911 October</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Original dam of stone masonry, First extension height only, and of concrete. Second extension of concrete, raised height and increased thickness from base up on downstream side.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 3:13</th>
<th>700-A-a-249 Water Pouring Over Sweet Water Dam After Raising about 1911. California. <strong>circa 1911</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Picture taken after raising height of dam.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 3:14</th>
<th>700-A-a-250 Sweetwater dam, San Diego County, Calif. <strong>1908</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 3:15</th>
<th>700-A-a-251 Yorba dam Anaheim Union Water Co. Orange Co. Calif. <strong>1915 April</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 3:16</th>
<th>700-A-a-252 Dam at Outlet of Echo Lake. <strong>undated</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 3:17</th>
<th>700-A-a-254 Another View of Lake Spalding Dam, Pacific Gas and Electric Co. <strong>undated</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 glass plate negatives, 7 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 3:18</th>
<th>700-A-a-255 Temporary Dam across American River at head of Placerville Ditch <strong>1919 August</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 3:19</th>
<th>700-A-a-257 Stanford Vina Ranch Dam on Deer Creek, Butte County. <strong>1918</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 4 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 3:20</td>
<td>700-A-a-258 Carroll Dam, San Diego County. This is an Eastwood type multiple arch dam in the canyon of the San Dieguito undated</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Photographer: Veihmeyer, Frank J.</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>See No. 700-A-b-52</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 3:21</th>
<th>700-A-a-262 Diagonal Dam Across Butte Creek directly below Southern Pacific Bridge. 1918</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 3 prints</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Built by State Land Settlement Board in cooperation with Ditch owners on Butte Creek. Diagonal construction necessary because of (a) proximity of railroad bridge, and (b) lack of suitable material for a foundation and control of diversion on left bank directly opposite the most suitable ending on right bank.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 3:22</th>
<th>700-A-a-265 Hemet Dam, showing timber super-structure 1923 August</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 3:23</th>
<th>700-A-a-266 Hemet Dam and Hemet Lake undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 3:24</th>
<th>700-A-a-267 Lake Hemet and dam 1923 August</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative (broken), 1 print</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 3:25</th>
<th>700-A-a-268 Murray multiple arch dam on system of Cuyamaca Water Company southeast of San Diego. 1923 About August</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 3:26</th>
<th>700-A-a-269 South San Joaquin Oakdale dam and upper portion south San Joaquin canal. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 3:27</th>
<th>700-A-a-270 Overpour south San Joaquin Oakdale dam. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Box</td>
<td>Item</td>
</tr>
<tr>
<td>-----</td>
<td>------</td>
</tr>
</tbody>
</table>
| 3:28 | 700-A-a-271 | Overpour, south San Joaquin Oakdale dam. undated  
Photographer:  
Physical Description: 1 negative  
Scope and Content Note |
| 3:29 | 700-A-a-272 | South San Joaquin Oakdale dam. undated  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note  
South San Joaquin Oakdale dam. |
| 3:30 | 700-A-a-273 | Concrete dam across San Joaquin River at head of San Joaquin and Kings River canal. circa 1923  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 2 prints  
Scope and Content Note |
| 3:31 | 700-A-a-274 | Anderson-Cottonwood Irrigation District diversion dam in Sacramento River from below Redding. 1924 March 20  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note  
Slide No. 654 |
| 3:32 | 700-A-a-275 | Anderson-Cottonwood Irrigation District diversion dam in Sacramento River from below Redding, March 20, 1924. 1924 March 20  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note  
Slide No. 654 |
| 4:1 | 700-A-a-281 | Portion of steel lining of Lower Otay Dam, about ten miles below the site of the dam. Carried down by the flood at the time the dam broke. undated  
Photographer: Adams, Frank  
Physical Description: 1 negative, 3 prints  
Scope and Content Note |
| 4:2 | 700-A-a-282 | Dam at Echo Lake, near summit of Placerville road. About 1920  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative (broken)  
Scope and Content Note |
| 4:3 | 700-A-a-283 | Earth-filled dam of Silver Flat Reservoir near Hayden Hill, Lassen County. Built by the Juniper Irrigation Company at a cost of about $13,500. 1925 June 18  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note  
Built by the Juniper Irrigation Company at a cost of about $13,500. Crest length, 1,200 feet; bottom width, 30 ft.; top width, 5 feet; area at high water, 815 acres; capacity, 3,900 acre-feet. |
Box 4:4  700-A-a-284 Lookout Dam on Pit River near Lookout and head of Gooch Ditch on left, which is the highest diversion in Big Valley from Pit River. 1925 June 18
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 4:5  700-A-a-285 Don Pedro Dam, Spillway, and Reservoir. View No. 1 1926 April 30
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 4:6  700-A-a-286 Don Pedro Dam. View No. 2 1925 April 30
   Photographer: Adams, Frank
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 4:7  700-A-a-287 Spillway, Don Pedro Dam. View No. 2. 1926 April 30
   Photographer: Adams, Frank
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 4:8  700-A-a-288 Don Pedro Dam. View No. 1 1926 April 30
   Photographer: Adams, Frank
   Physical Description: 1 negative, 2 prints
   Scope and Content Note

   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 4:10 700-A-a-290 Lake Hodges Dam, San Diego County undated
   Photographer: Adams, Frank
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 4:11 700-A-a-291 Lake Hodges Dam, San Diego County. undated
   Photographer: Adams, Frank
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 4:12 700-A-a-292 Secondary diversion dam of the Anderson Cottonwood Irrig. District Redding, California. 1928 May 16
   Photographer: Hendrickson, A.H.
   Physical Description: 1 glass plate negative
   Scope and Content Note
Box 4:13  700-A-a-293 View of Melones Dam. This picture was taken from the top of the bluff near the power house. 1928 October 28
   Photographer: Huberty, Martin R.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 4:14  700-A-a-294 Melones Dam 1928 October 28
   Photographer: Huberty, Martin R.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 4:15  700-A-a-295 Melones Dam 1928 October 28
   Photographer: Huberty, Martin R.
   Physical Description: 1 negative
   Scope and Content Note

Box 4:16  700-A-a-296 Melones Dam 1928 October 28
   Photographer: Huberty, Martin R.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 4:17  700-A-a-297 Melones Dam 1928 October 28
   Photographer: Huberty, Martin R.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 4:18  700-A-a-298 Melones Dam 1928 October 28
   Photographer: Huberty, Martin R.
   Physical Description: 1 negative
   Scope and Content Note

Box 4:19  700-A-a-300 Exchequer Dam 1928 October 28
   Photographer: Huberty, Martin R.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 4:20  700-A-a-301 Exchequer Dam 1928 October 28
   Photographer: Huberty, Martin R.
   Physical Description: 1 negative
   Scope and Content Note

Box 4:21  700-A-a-302 Exchequer Dam 1928
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 4:22  700-A-a-304 Don Pedro Dam, 1928 1928 October 28
   Photographer: Huberty, Martin R.
   Physical Description: 1 negative, 1 print
   Scope and Content Note
<table>
<thead>
<tr>
<th>Box</th>
<th>Catalog Number</th>
<th>Description</th>
<th>Photographer</th>
<th>Date</th>
<th>Physical Description</th>
<th>Scope and Content Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:23</td>
<td>700-A-a-305</td>
<td><strong>Don Pedro Dam, 1928</strong></td>
<td>Adams, Frank</td>
<td><strong>1928</strong></td>
<td>1 negative</td>
<td></td>
</tr>
<tr>
<td>4:24</td>
<td>700-A-a-306</td>
<td><strong>Don Pedro Dam, 1928</strong></td>
<td>Adams, Frank</td>
<td><strong>1928</strong></td>
<td>2 negatives</td>
<td>Slide No. 655</td>
</tr>
<tr>
<td>4:25</td>
<td>700-A-a-307</td>
<td><strong>Untitled, 1928</strong></td>
<td>Adams, Frank</td>
<td><strong>1928</strong></td>
<td>4 negatives, 4 prints</td>
<td>Slide No. 656</td>
</tr>
<tr>
<td>4:26</td>
<td>700-A-a-311</td>
<td><strong>Van Giesen Diversion Dam, Bear River, May 12, 1928</strong></td>
<td>Huberty, Martin R.</td>
<td><strong>1928 May 12</strong></td>
<td>1 negative</td>
<td></td>
</tr>
<tr>
<td>4:27</td>
<td>700-A-a-312</td>
<td><strong>Van Giesen Diversion Dam, Bear River, May 12, 1929</strong></td>
<td>Adams, Frank</td>
<td><strong>1929 May 12</strong></td>
<td>1 negative</td>
<td></td>
</tr>
<tr>
<td>4:28</td>
<td>700-A-a-313</td>
<td><strong>Paradise Irrigation District earth fill dam, Magalia, November 29, 1929</strong></td>
<td>Huberty, Martin R.</td>
<td><strong>1929 November 29</strong></td>
<td>2 negatives, 3 prints</td>
<td></td>
</tr>
<tr>
<td>4:29</td>
<td>700-A-a-316</td>
<td><strong>Downstream view of weir across Kings River at intake to Gould Canal or Centerville. Weir crest controlled by flash boards, May 6, 1929</strong></td>
<td>Christiansen, Jerald Emmet</td>
<td><strong>1929 May 6</strong></td>
<td>1 negative, 1 negative</td>
<td></td>
</tr>
<tr>
<td>4:30</td>
<td>700-A-a-317</td>
<td><strong>Dam at outlet of Clear Lake into Cache Creek showing hydraulic lift gates. Yolo Water and Power Co., May 28, 1929</strong></td>
<td>Christiansen, Jerald Emmet</td>
<td><strong>1929 May 28</strong></td>
<td>1 negative</td>
<td></td>
</tr>
<tr>
<td>4:31</td>
<td>700-A-a-318</td>
<td><strong>Clear Lake Dam at head of Cache Creek. Yolo Water &amp; Power Co., April 28, 1929</strong></td>
<td>Christiansen, Jerald Emmet</td>
<td><strong>1929 April 28</strong></td>
<td>1 negative</td>
<td></td>
</tr>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
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<td></td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 4:33</th>
<th>700-A-a-320 <strong>LaGrange Dam on Tuolumne River showing division of Modesto Irrigation District. Turlock diverts through tunnel on right side. (not shown) 1929 August</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 4:34</th>
<th>700-A-a-321 <strong>Lower diversion dam on Alamo River. Imperial Irrigation District. 1931 April</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 4:35</th>
<th>700-A-a-322 <strong>More Dam and headgate on Cache Creek, Yolo Co. 1931 September</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Givan, C.V.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 4:36</th>
<th>700-A-a-323 <strong>Stony Gorge dam, Orland Project (U.S. Reclamation), upstream face, showing spillway gates 1929</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 negatives, 2 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 4:37</th>
<th>700-A-a-324 <strong>(2 neg.) Stony Gorge dam on Stony Creek, Orland Project, showing upstream face of dam 1929</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 negatives, 2 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 4:38</th>
<th>700-A-a-325 <strong>Stony Gorge dam, Stony Creek, Orland Project, showing upstream face of dam. 1929</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 4:39</th>
<th>700-A-a-326 <strong>Stony Creek dam on Stony Creek, Orland Project, view along top of dam 1929</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 4:40</th>
<th>700-A-a-327 <strong>Stony Gorge Dam, Stony Creek, Orland Project, view along top of dam 1929</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box</td>
<td>Item</td>
</tr>
<tr>
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<td>------</td>
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</table>
| 4:41 | 700-A-a-328 | Water passing over spillway, Don Pedro dam 1929  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| 4:42 | 700-A-a-329 | Don Pedro Dam, spillway crest undated  
Photographer: Adams, Frank  
Physical Description: 2 negatives, 4 prints  
Scope and Content Note |
| 4:43 | 700-A-a-330 | Littlerock Dam, Littlerock creek and Palmdale Irrigation Districts undated  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| 5:1 | 700-A-a-331 | Littlerock - Palmdale Irrigation District dam undated  
Photographer: Adams, Frank  
Physical Description: 2 negatives, 2 prints  
Scope and Content Note |
| 5:2 | 700-A-a-332 | Littlerock Dam on Littlerock Creek built jointly by Palmdale and Littlerock Irrigation District undated  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| 5:3 | 700-A-a-333 | Upstream view of Littlerock dam built jointly by Palmdale and Littlerock Creek Irrigation District, (Multiple arch) undated  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| 5:4 | 700-A-a-334 | Littlerock Dam, view along top of dam undated  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| 5:5 | 700-A-a-335 | Memorial tablet at Exchequer dam 1928  
Photographer: Givan, C.V.  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| 5:6 | 700-A-a-336 | Lake Hodges Dam, San Dieguito River 1932 March  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| 5:7 | 700-A-a-337 | Rockfill Dam, Shasta River, Mt. Shasta in background 1919  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 5:8 | 700-A-a-338 Dam, Juniper Water Company above Big Valley, Modoc County circa 1924-1925 |
| Box 5:9 | 700-A-a-339 Overflow Weir undated |
| Box 5:10 | 700-A-a-340 Exchequer Dam and reservoir. circa 1929 |
| Box 5:11 | 700-A-a-341 View of Boulder Dam taken from the power house. 1935 February 23 |
| Box 5:12 | 700-A-a-342 Boulder dam, downstream face. 1935 February 22 |
| Box 5:13 | 700-A-a-343 Downstream view of Boulder Dam showing concrete mixing plant on extreme left and Arizona spillway and "Chinese wall" on right. 1935 February 22 |
| Box 5:14 | 700-A-a-344 Downstream view of Boulder dam; Arizona intake towers on upper right. 1935 February 22 |
| Box 5:15 | 700-A-a-345 Downstream view of Boulder Dam, showing power house completed. 1935 February 23 |
| Box 5:16 | 700-A-a-346 Boulder dam, general view, downstream face, showing observation point in foreground. 1935 February 22 |
| Box 5:17 | 700-A-a-347 | Nevada side of top of Boulder dam shortly before completion 1935 February 22  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
|---|---|---|
| Box 5:18 | 700-A-a-348 | Nevada spillway, Boulder Dam 1935 February 22  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 5:19 | 700-A-a-349 | Penstock pipe fabrication plant at Boulder dam site. 1935 February 22  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 5:20 | 700-A-a-350 | Downstream view of Boulder Dam, showing power house under construction. 1935 February 22  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 5:21 | 700-A-a-351 | Downstream view of Boulder dam; diversion tunnel and lower coffer dam in foreground. 1935 February 22  
Photographer: Adams, Frank  
Physical Description: 2 negatives  
Scope and Content Note |
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 negative  
Scope and Content Note |
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 5:24 | 700-A-a-355 | Gillespid dam, Gila River, Arizona. (2 views) 1926 or 1927  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 5:25 | 700-A-a-356 | Rodrigues Dam, Tia Juana River, Mexico. 1929  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
Box 5:26  700-A-a-357  Citrus Exp. Station, Riverside, California. 1936 August 29
Photographer: Compton, O.C.
Physical Description: 1 print
Scope and Content Note
Laguna dam, Colorado River, at intake of Yuma Canal, above Bard, Calif. Photograph taken on trip of Veihmeyer, Frank J., and O.C. Compton, to Imperial Valley. Debris lodged to downstream face of dam.

Photographer: Enlargement by Weston
Physical Description: 1 negative
Scope and Content Note

Box 5:28  700-A-a-367a700-A-a-367b  Diversion dam Clear Lake Water Co. To be sued as site of new gaging station to be rated by U.S. Bur. Reclamation. 1939 December 5
Photographer: Veihmeyer, Frank J.
Physical Description: 2 negatives
Scope and Content Note
(a) Looking west. (b) Looking north.

Box 5:29  700-A-a-368  Shasta Dam Looking West from Observation House. April 4, 1941 1941 April 4
Photographer: Veihmeyer, Frank J.
Physical Description: 3 negatives, 2 prints
Scope and Content Note

Box 5:30  700-A-a-369  Shasta Dam. 1943 June 11
Photographer: Veihmeyer, Frank J.
Physical Description: 2 negatives, 1 print
Scope and Content Note

Box 5:31  700-A-a-371  Shasta Dam. 1951 April 10
Photographer: Veihmeyer, Frank J.
Physical Description: 2 negatives
Scope and Content Note

Box 6:1  700-A-b-49  Hydraulicking Hillside Below Dam at West End, San Fernando Dam, Los Angeles Aqueduct, California 1915 December 21
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note
Only the one nozzle was used for dislodging earth in the hillside, the water from the large pipe to the right being used as wash water.

Box 6:2  700-A-b-50  Sluicing and Pumping Equipment, Lower Side and West End of San Fernando Dam, Los Angeles Aqueduct, California. 1915 December 21
Photographer: Hutchins, Wells A.
Physical Description: 1 negative
Scope and Content Note
The priming tank is shown on the right.
| Box 6:3 | 700-A-b-51 Depositing Hydraulicked Materials from 12-inch Pipe on Lower Side of San Fernando Dam, Los Angeles Aqueduct, California 1915 December 21  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 2 prints  
Scope and Content Note  
The last length of this pipe, as shown in the picture, has holes about 2x4 to 6 inches in dimension for permitting the deposit of the larger particles before the main volume of water is discharged at the outlet. This gives the finer particles greater opportunity to be carried to the center of the dam. All material was deposited just inside each rim wall. The heavier particles are thus left on the outside and the "fines" are washed to the center to form the only core-wall provided. |
| Box 6:4 | 700-A-b-52 Construction of Eastwood Type Multiple Arch Caroll Dam in Canyon of San Dieguito, San Diego County for San Dieguito Mutual Water Company on proposed irrigation district. 1917 November  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note  
This picture is taken to show the butt of the piers at the lower ends; also to give near view of pouring concrete. Note panel forms and ends of buttresses. |
| Box 6:5 | 700-A-b-53 Another view of construction of Caroll Multiple Arch Dam in San Dieguito River, San Diego County. 1917 November  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note  
Note foot of tour in the center distance from which concrete is poured; also note panel forms for edges. |
| Box 6:6 | 700-A-b-54 Alpine Dam of Marin Municipal Water District under construction as visited May 2, 1918. 1918 May 2  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 6 prints  
Scope and Content Note  
Estimated cost, including clearing, $250,000. Completion of this dam to a height of 100 ft. will increase the water supply of the district by about 3 million gallons daily and to its ultimate height of 175 ft. to a total of between 10 and 15 million gallons daily. |
| Box 6:7 | 700-A-b-56 San Fernando dam during construction. Earthfilled (hydraulic filled) dam. Los Angeles water system. 1916  
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 6:8 | 700-A-b-60 New Bear Valley Dam under construction, lower side. Multiple arch with buttresses. undated  
Photographer: Tait, C.E.  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 6:10 700-A-b-62 Franklin Canyon Dam of the Los Angeles Aqueduct, Cal. 1915 April
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 1 print
   Scope and Content Note
   This is a hydraulic fill dam constructed at a cost of 20 cents per cubic yard. In the foreground is the concrete gate tower.

Box 6:11 700-A-b-63 Haiwee hydraulic fill dam under construction, Los Angeles Aqueduct. 1911
   Photographer: Tait, C.E.
   Physical Description: 1 negative
   Scope and Content Note

Box 6:12 700-A-b-65 Hydraulic fill dam, Mockingbird Canon, Gage Canal Company. 1913 September
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 6:13 700-A-b-66 Hydraulic Fill Dam, Silver Lakes Reservoir, Los Angeles, Calif. 1907
   Photographer: Tait, C.E.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 6:14 700-A-b-67 Laguna Dam from California side. Excavations in foreground were filled with water by flood and are being pumped out. Channel Colorado River in distance. 1906 August
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 6:15 700-A-b-68 Morena dam, San Diego County, Calif, under construction. View from north end. 1911 October
   Photographer: Tait, C.E.
   Physical Description: 1 negative
   Scope and Content Note

Box 6:16 700-A-b-69 Morena dam, San Diego County, Calif., under construction. Upper side. 1911 October
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 1 print
   Scope and Content Note
Box 6:17  700-A-b-70 Morena dam, San Diego County, Calif., under construction, lower side.  
1911 October  
   Photographer: Tait, C.E.  
   Physical Description: 1 negative, 1 print  
   Scope and Content Note

Box 6:18  700-A-b-71 Monitor throwing stream from #5 centrifugal pump (approximately 1 1/2 sec. ft.) under 60" pressure. Peasly Gulch hydraulic fill, Turlock Main Canal, Calif.  
undated  
   Photographer:  
   Physical Description: 1 glass plate negative, 1 print  
   Scope and Content Note

Box 6:19  700-A-b-77 San Fernando Dam of the Los Angeles Aqueduct, Cal. 1915 February  
   Photographer: Tait, C.E.  
   Physical Description: 1 negative, 1 print  
   Scope and Content Note

Box 6:20  700-A-b-78 San Fernando Dam of the Los Angeles Aqueduct, Cal. 1915 December 2  
   Photographer: Tait, C.E.  
   Physical Description: 1 negative  
   Scope and Content Note

Box 6:21  700-A-b-79 Closing the by pass after destruction of Rockwood gate at Mexican intake of C.D.Co. Colorado River. View shows the two lower trestles at left and dam across by-pass at right. 1906 November  
   Photographer: Tait, C.E.  
   Physical Description: 1 glass plate negative, 1 print  
   Scope and Content Note

Box 6:22  700-A-b-80 Meselbeck Hydraulic Filled Dam on Happy Valley Irrigation District. 1919 October 31  
   Photographer: Adams, Frank  
   Physical Description: 2 prints  
   Scope and Content Note  
   Under construction October 31, 1919. This dam will have a completed height of 100 feet with an estimated yardage of 280,000 cubic yards; including auxiliary dam contract price of $325,000 with some allowance. Cost to October 1, 1919 about $.60 per cubic yard; estimated cost completed $.45 per cubic yard. Up stream face of dam to be paved with gunite. Original sub-contract price of gunite including $.02 for chicken wire $.15 per square foot. Sub-contractor failed and principal contractor expected to complete the work at cost of $.09 per square foot. Thickness of gunite 2 inches; weep poles divided in gunite every 5 feet each way and to be carried up about one-half the height of the dam. Gunnite paving proportioned 1-3.

Box 6:23  700-A-b-81 Second View of Meselbeck Dam, Happy Valley Irrigation District. 1919 October 31  
   Photographer: Adams, Frank  
   Physical Description: 1 glass plate negative  
   Scope and Content Note
Box 6:24  700-A-b-82 Fourth View of Meselbeck Dam, Happy Valley Irrigation District. 1919 October 31
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note
Showing near view flumes, and spreading material.

Box 6:25  700-A-b-83 Third View of Meselbeck Dam, Happy Valley Irrigation District. 1919 October 31
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note
Showing source of material and hydraulic giant at work.

Box 6:26  700-A-b-84 Detailed View of Gate in Metal Lined Flumes Used in Constructing Meselbeck Dam, Happy Valley Irrigation District. 1919 October 31
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 3 prints
Scope and Content Note
These gates are at frequent intervals in the flumes and thus permit the deposit of material at any point desired.

Box 6:27  700-A-b-86 Second View of Diversion Dam Above Hoover Tunnel. undated
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 6:28  700-A-b-87 Diversion Dam Under Construction Above Hoover Tunnel, Happy Valley Irrigation District. undated
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note
Height above stream 40 feet; base thickness 5 feet; top thickness exclusive of lip 2 feet; base length 25 feet; top length 85 feet; radius of dam varying every 10 feet from 40 feet at base to 60 feet at top.

Box 6:29  700-A-b-88 Lower Otay Dam 1919 January
Photographer: Veihmeyer, Frank J.
Physical Description: 1 glass plate negative
Scope and Content Note
Reconstruction of old dam destroyed by flood Jan. 27, 1916. Overtopped with flood water-wasteway too small. Took about 15 or 20 minutes for practically the entire dam to be taken away after being overtopped. The crest of the flood reached Otay, nine miles downstream in 45 minutes. Upper portion of lower fill soon sank when dam overtopped and few minutes later another lower section was taken out after which the core wall broke open - when the gorge was quickly cleared out. Shows steel core wall of old dam.

Box 6:30  700-A-b-89 Anderson-Cottonwood Irrigation District Dam across Sacramento River under construction. Pumps removing water from Coffer Dam. undated
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note
### Box 6:31
**700-A-b-90 Lower end of upper Klamath Lake and head of Link River. 1920 September**

- **Photographer:** Adams, Frank
- **Physical Description:** 1 negative
- **Scope and Content Note**
  
  Temporary dam put in by the power company is shown at the head of the river. Beginning of construction of new dam shown on the right. Headgate of Keeno Power canal in the lower right corner.

### Box 6:32
**700-A-b-91 Exchequer Dam nearing completion. 1926 April 30**

- **Photographer:** Adams, Frank
- **Physical Description:** 1 negative, 1 paper
- **Scope and Content Note**

### Box 6:33
**700-A-b-93 Dwinnell hydraulic fill dam under construction. Montague Water Conservation District, Siskiyou County. 1928 July 24**

- **Photographer:** Christiansen, Jerald Emmet
- **Physical Description:** 1 negative, 1 print
- **Scope and Content Note**

### Box 6:34

- **Photographer:** Christiansen, Jerald Emmet
- **Physical Description:** 1 negative
- **Scope and Content Note**

### Box 6:35
**700-A-b-99 Boulder Dam views. (a) General view looking upstream. Water being diverted past dam site. (b) Concrete mixing plant near the top of canyon on the Nevada side. 1933 April 30**

- **Photographer:** Huberty, Martin R.
- **Physical Description:** 2 prints
- **Scope and Content Note**

### Box 7:1
**700-A-b-100 Construction of Boulder Dam. Excavation in the river channel nearing completion. Note narrow, deep channel in center of picture. 1933 April 30**

- **Photographer:** Huberty, Martin R.
- **Physical Description:** 1 print
- **Scope and Content Note**

### Box 7:2
**700-A-b-101 (3 views) Views of Stony Gorge Dam under construction 1928 June 24**

- **Photographer:** Christiansen, Jerald Emmet
- **Physical Description:** 3 negatives
- **Scope and Content Note**

### Box 7:3
**700-A-b-105 Don Pedro Dam under construction 1922**

- **Photographer:** Huberty, Martin R.
- **Physical Description:** 1 negative
- **Scope and Content Note**
Box 7:4  700-A-b-106 Stevens Creek Dam under Construction, Santa Clara Valley, W. Conservation District. Used in center panel as transparency, Irrigation Exhibit 1940 only, Golden Gate International Exposition, San Francisco. 1935 October 30
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 7:5  700-A-b-107 Coyote Dam under construction. Santa Clara Valley, W. Conservation District. Looking toward spillway end. 1935 October 30
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 7:6  700-A-b-108 Guadalupe Dam under construction, Santa Clara Valley W. Conservation District. 1935 October 30
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 7:7  700-A-b-109 Upstream face, Calero Dam, Santa Clara Valley, W. Conservation District. 1935 October 31
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 7:8  700-A-b-110 Coyote Dam under construction, Santa Clara Valley, W. Conservation District. Looking from spillway end. 1935 October 31
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 7:9  700-A-b-111 Coyote dam under construction, Santa Clara Valley, W. Conservation District. Looking toward spillway end. 1935 October 31
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 7:10  700-A-b-112 Across Shasta Dam site from east to west. Contractor's conveying system for sand and gravel shown leading to mixing plant under tower. Lower portion of east abutment of dam shown below. 1940 October 03
   Photographer: Adams, Frank
   Physical Description: 2 negatives, 1 print
   Scope and Content Note

Box 7:11  700-A-b-113 Construction tower, contractor's conveying system, westerly portion of cleared site for Shasta Dam, and visitors' observation house from road on east side above dam site. 1940 October 3
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note
Box 7:12 700-A-b-114 **Down Sacramento River from construction tower, Shasta Dam. Contractor's settlement in left distance. Sand and gravel conveying system leading from gravel pit shown as line on the upper right. 1940 October 3**
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 7:13 700-A-b-115 **Continuation to the west of picture 700-A-b-114. Sand/gravel conveying system crossing Sacramento River on left center. Contractor's conveying system shown leading from gravel dump. 1940 October 3**
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 7:14 700-A-b-116 **Easterly from construction tower, Shasta Dam, showing constructed portion of east abutment in lower foreground with cleared site of dam above. Visitors' observation house in left center. 1940 October 3**
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 7:15 700-A-b-117 **Looking easterly from construction tower, Shasta Dam. 1940 October 3**
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 7:16 700-A-b-118 **Looking easterly from construction tower, Shasta Dam. 1940 October 3**
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 7:17 700-A-b-119 **Looking down from construction tower on completed portion of Shasta Dam. 1940 October 3**
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 7:18 700-A-b-120 **Close-up view of completed portion of Shasta Dam. Visitors' observation house in upper left. 1940 October 3**
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 7:19 700-A-b-121 **Members of Central Valley-Central Coast Drainage Basin Committee observing Shasta Dam from top of construction tower. 1940 October 3**
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note
<table>
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<tr>
<th>Box</th>
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<th>Description</th>
<th>Date</th>
<th>Photographer</th>
<th>Physical Description</th>
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<tr>
<td>700-A-b-122</td>
<td>700-A-b-122</td>
<td>E.I. Kotok, Construction Engineer Lowry, and State Engineer Hyatt on top of construction tower, Shasta Dam. Erosion of adjacent hills in the distance</td>
<td>1940 October 3</td>
<td>Adams, Frank</td>
<td>1 negative</td>
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<tr>
<td>700-A-b-123</td>
<td>700-A-b-123</td>
<td>Pit River bridge. Construction of new highway and railroad bridge across Shasta Reservoir.</td>
<td>1940 October 3</td>
<td>Adams, Frank</td>
<td>1 negative</td>
</tr>
<tr>
<td>700-A-b-124</td>
<td>700-A-b-124</td>
<td>Present highway bridge across Pit River just below junction of McCloud and Pit rivers to be submerged by Shasta Dam.</td>
<td>1940 October 3</td>
<td>Adams, Frank</td>
<td>1 negative</td>
</tr>
</tbody>
</table>
Photographer: Veihmeyer, Frank J. (Weston)  
Physical Description: Slide No. 1 negative  
Scope and Content Note  
Slide No. A-1345 |
| Box 7:29 | 700-A-d-1 **Core wall of Mockingbird Canon dam, near Riverside, Calif. 1913**  
Photographer: Tait, C.E.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 7:30 | 700-A-e-1 **Rip-Rap Along Cache Creek, to Protect Adams Canal Diverting From Capay Dam, California. 1914 November 27**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
The rip-rap shown in this picture was damaged to the extent indicated by the winter floods of 1913-1914. This view and the one shown in Picture No. 700-B-a-58 constitute a panorama. |
| Box 7:31 | 700-A-f-3 **Devils Gate Dam Site on Putah Creek. 1920 May**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 7:32 | 700-A-f-4 **Looking across San Joaquin River at Millerton Dam Site. 1920 January**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 3 prints  
Scope and Content Note |
| Box 7:33 | 700-A-f-5 **River Channel at Millerton Dam Site on San Joaquin River. 1920 January**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative (broken)  
Scope and Content Note |
| Box 7:34 | 700-A-f-6 **Ward or Three Rivers Dam site on Kawesh River. August, 1917. 1917 August**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note  
G. B. Surgeon estimates that dam 300 ft high will store 300,000 of. |
| Box 7:35 | 700-A-f-7 **Proposed dam site on Pitt River seven miles above Lookout. 1920 September**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note |
<table>
<thead>
<tr>
<th>Box 7:36</th>
<th>700-A-f-8</th>
<th>Canyon of Pitt River directly below bridge at Fall River Mills looking south. <strong>1920 September</strong></th>
</tr>
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<tbody>
<tr>
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<td>Photographer: Adams, Frank</td>
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<td>Physical Description: 1 glass plate negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<td></td>
<td>Suggested dam site for Fall River storage at narrowest point shown in the picture.</td>
<td></td>
</tr>
<tr>
<td>Box 7:37</td>
<td>700-A-f-9</td>
<td>Proposed Dam Site on Burns Creek southeast of Merced. <strong>1918 April 1</strong></td>
</tr>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
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<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
<td></td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<td></td>
<td>This is one of the possible foothill sites of the proposed Merced Irrigation District.</td>
<td></td>
</tr>
<tr>
<td>Box 7:38</td>
<td>700-A-f-10</td>
<td>Site for Proposed Reservoir of the Big Rock Creek Irrigation District on Big Rock Creek, Above the Junction of Rock and Pallett Creeks, Cal. <strong>1915 June 30</strong></td>
</tr>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
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<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<td></td>
<td>This reservoir is reported to have a capacity of about 7,500 acre feet. The impounding dam will be built by the colonists in the Llano del Rio Cooperative Colony which controls the present Big Rock Creek Irrigation District.</td>
<td></td>
</tr>
<tr>
<td>Box 7:39</td>
<td>700-A-f-11</td>
<td>Dam Site La Mesa Lemon Grove &amp; Spring Valley Irrigation District, San Diego River, California. <strong>1914 March</strong></td>
</tr>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
<td></td>
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<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box 7:40</td>
<td>700-A-f-12</td>
<td>Pine Flat damsite on Kings River About 1915</td>
</tr>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 4 prints</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
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<tr>
<td>Box 7:41</td>
<td>700-A-f-13</td>
<td>Site proposed for flood-water dam on Whitewater River, above Coachella Valley, January, 1919. <strong>1919 January</strong></td>
</tr>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Box 8:1</td>
<td>700-A-f-14</td>
<td>Currier dam site - Arroyo Seco. West from Salinas Valley. <strong>1920 September 22</strong></td>
</tr>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Box 8:2</td>
<td>700-A-f-15</td>
<td>Dam site in Railroad canyon, near Elsinore <strong>1920</strong></td>
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<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
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<tr>
<td>Box 8:3</td>
<td>700-A-f-16 <strong>Arroyo Seco dam site. 1918</strong></td>
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<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
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<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box 8:4</td>
<td>700-A-f-17 <strong>Basin above Devils Head dam site 1920</strong></td>
<td></td>
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<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
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<tr>
<td></td>
<td>Physical Description: 2 negatives, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
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<tr>
<td>Box 8:5</td>
<td>700-A-f-18 <strong>Columbia River at proposed damsite for Columbia River Basin Project, Washington. Ferry at edge of left bank is approximately at Damsite. 1932</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
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<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<td>Box 8:6</td>
<td>700-A-f-19 <strong>Looking up Columbia River near location of proposed Columbia River Dam of Columbia River Basin Project. 1932</strong></td>
<td></td>
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<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<td>Physical Description: 1 negative</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box 8:7</td>
<td>700-A-f-20 <strong>Columbia near location of proposed Columbia River Dam of Columbia River Basin Project. 1932</strong></td>
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<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
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<td>Box 8:8</td>
<td>700-A-f-21 <strong>View of Boulder City at Boulder Dam site 1933?</strong></td>
<td></td>
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<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
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<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
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<td>Box 8:9</td>
<td>700-A-f-22 <strong>Boulder canyon at dam site 1932 April</strong></td>
<td></td>
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<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
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<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
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<td>Box 8:10</td>
<td>700-A-f-23 <strong>Boulder canyon at dam site 1932 April</strong></td>
<td></td>
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<td></td>
<td>Photographer: Adams, Frank</td>
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<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<td>Box 8:11</td>
<td>700-A-f-24 <strong>Boulder canyon at dam site 1932 April</strong></td>
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<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
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<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<td>Box 8:12</td>
<td>700-A-f-25 <strong>Boulder canyon at dam site 1932 April</strong></td>
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<td></td>
<td>Photographer: Adams, Frank</td>
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<td>Physical Description: envelope only, no print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
<td></td>
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</table>
Box 8:13  700-A-f-26 **Boulder canyon and dam site 1932 April**
Photographer: Adams, Frank
Physical Description: 1 negative
Scope and Content Note

Box 8:14  700-A-f-27 **Looking up Colorado River above Boulder dam, near Boulder City 1932**
Photographer: Adams, Frank
Physical Description: 1 negative
Scope and Content Note

Box 8:15  700-A-f-28 **Looking out of one of main tunnels, Boulder dam 1932 April**
Photographer: Adams, Frank
Physical Description: 1 negative
Scope and Content Note

Box 8:16  700-A-f-29 **College of Agriculture party at mouth of one of the main tunnels at Boulder dam 1932 April**
Photographer: Adams, Frank
Physical Description: 1 negative
Scope and Content Note

Box 8:17  700-A-f-30 **College of Agriculture party at Lookout Point, Boulder canyon. 1932 April**
Photographer: Adams, Frank
Physical Description: 1 negative
Scope and Content Note

Box 8:18  700-A-f-31 **College of Agriculture party at Boulder dam, Walker Young and L.D. Bachelor in center. 1932 April**
Photographer: Adams, Frank
Physical Description: 1 negative
Scope and Content Note

Box 8:19  700-A-f-32 **Construction bridge across Colorado River at Boulder canyon 1932 April**
Photographer: Adams, Frank
Physical Description: 1 negative
Scope and Content Note

Box 8:20  700-A-f-33 **Operating skip, Boulder canyon, Boulder dam site 1932 April**
Photographer: Adams, Frank
Physical Description: 1 negative
Scope and Content Note

Box 8:21  700-B-a-42 **Radial Gate at Head of Turlock Canal, Turlock Irrigation District, Cal. 1915 July 31**
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 2 prints
Scope and Content Note
This gate is placed at the mouth of the tunnel which goes through the hillside at the south end of La Grange Dam. On the left is the head of the spillway.
<table>
<thead>
<tr>
<th>Box 8:22</th>
<th>700-B-a-43 Back of Radial Gates, Winters Canal, Yolo Water and Power Co., Yolo County, Cal. (For description see Picture No. 44) 1914 November 27</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
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<td>Box 8:23</td>
<td>700-B-a-44 Radial Gates on Winters Canal, Yolo Water and Power Co., Cal. 1914 November 27</td>
</tr>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<td></td>
<td>These gates are placed at the ends of the concrete lined section of Winters Canal where Madison Canal branches from Winters Canal.</td>
</tr>
<tr>
<td></td>
<td>Madison Canal supplies lands in the neighborhood of Madison and east for a short distance along the south side of Cache Creek.</td>
</tr>
<tr>
<td>Box 8:24</td>
<td>700-B-a-45 Headgate, Little Rock Creek Irrigation District, California. 1915 June 29</td>
</tr>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This is where the canal takes out of the Little Rock Creek. When the water supply in the creek falls short, the District pumps from a cienaga in the creek.</td>
</tr>
<tr>
<td>Box 8:25</td>
<td>700-B-a-46 Headgate of Winters Canal, Yolo Water and Power Co., Cal. 1914 November 27</td>
</tr>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This shows the water wheel used to operate the fish screen placed in the head of this canal. The Winters Canal heads at Capay Dam.</td>
</tr>
<tr>
<td>Box 8:26</td>
<td>700-B-a-47 Headgate, West Main Ditch, Big Rock Creek Irrigation District, Cal. 1915 June 30</td>
</tr>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This diversion is also from Big Rock Creek at a point farther down the creek from the Diversion into the East Main Ditch.</td>
</tr>
<tr>
<td>Box 8:27</td>
<td>700-B-a-48 Head Works of Sutter-Butte Canal, California. undated</td>
</tr>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative (broken)</td>
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<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This structure was designed by and constructed under the direction of Milo B. Williams, of this Office, about 1907. The building resting on the structure was used as a kitchen and mess quarters for employees engaged in the maintenance of the system.</td>
</tr>
<tr>
<td>Box 8:28</td>
<td>700-B-a-49 Heading, Central Irrigation District, Nebraska. 1916 December 6</td>
</tr>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>
Box 8:29  700-B-a-49a Headworks, Consolidated Canal Company, Fresno County, California.  1916 June
  Photographer: Robertson, Ralph D.
  Physical Description: 1 negative, 2 prints
  Scope and Content Note

Box 8:30  700-B-a-50 Headgate and Diversion Weir of Moore Dam, Yolo Water and Power Company, Cache Creek, California. 1914 August 23
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative, 1 print
  Scope and Content Note
  This dam was installed in the fall of 1903 at a total cost of $11,000.

Box 8:31  700-B-a-50a Dam, Waste-Gate, and Headgate, on North Platte River, Central Irrigation District, Nebraska. 1916 December 6
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative, 1 print
  Scope and Content Note

Box 8:32  700-B-a-51 Typical Headgate, Patterson, California. 1916 May
  Photographer: Robertson, Ralph D.
  Physical Description: 1 negative, 1 print
  Scope and Content Note

Box 8:33  700-B-a-52 Bracing for Collapsible Flood Gate in Great Western Canal, west of Nelson, California. undated
  Photographer:
  Physical Description: 3 negatives, 2 prints
  Scope and Content Note

Box 8:34  700-B-a-52a Heading of Canal of Browns Creek Irrigation District, on North Platte River, Nebraska. 1916 December 3
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative, 2 prints
  Scope and Content Note
  The canal and headgate are shown on the left and just to the right is the wasteway into the main channel of the river.

Box 8:35  700-B-a-53 Headgate, Browns Creek Irrigation District, Nebraska. 1916 December 3
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative, 1 print
  Scope and Content Note
  On the left is shown the waste-way back to the main channel of the river.

Box 8:36  700-B-a-54 Headgate, Browns Creek Irrigation District, Nebraska. 1916 December 3
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative
  Scope and Content Note
| Box 8:37 | 700-B-a-55 **Concrete Headgate, Settlers Irrigation District, Idaho. 1916 December 25**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 8:38 | 700-B-a-56 **Headgate, Idaho Canal, Idaho Irrigation District, Idaho. 1916 December 16**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
Same as Picture No. 57. |
| Box 8:39 | 700-B-a-57 **Headgate, Idaho Canal, Idaho Irrigation District, Idaho. 1916 December 16**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
This is a masonry structure. The Idaho and New Sweden Irrigation Districts have a common dam across Snake River at this point, the New Sweden District diverting water on the northwest side of the river and the Idaho District on the southeast side. It is likely that this gate will be replaced sooner or later with a concrete structure fitted with modern steel gates. |
| Box 8:40 | 700-B-a-58 **Headgate of Adams Canal, Yolo Water and Power Company, Yolo County, California. 1914 November 27**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
This picture shows also the north end of the Capay Diversion Dam. The Adams Canal takes out from this headgate on the north side of Cache Creek and at the other end of the dam on the south side of the creek, the Winter's Canal diverts. This view and the one shown in Picture No. 700-A-e-1 constitute a panorama. |
| Box 9:1 | 700-B-a-59 **Panorama of Regulating Gate, Outlet of Cache Creek, Yolo Water & Power Company, California. 1914**  
Photographer: J.T.K.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 9:2 | 700-B-a-60 **Panorama of Regulating Gate, Outlet of Cache Creek, Yolo Water & Power Company, California. 1914**  
Photographer: J.T.K.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 9:3 | 700-B-a-61 **Intake of Supply Canal for East Park Reservoir, Orland Project, California. 1914**  
Photographer: J.T.K.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
Box 9:4  700-B-a-62 Concrete spill and crossing, Alta Irrigation District canal (Plate X, Fig. 1, Calif. State Dept. of Engineering Bulletin 2) undated
   Photographer:  
   Physical Description: 1 negative  
   Scope and Content Note

Box 9:5  700-B-a-65 Head gate on south San Joaquin canal showing Goodwin Dam at left. undated
   Photographer:  
   Physical Description: 1 negative  
   Scope and Content Note

Box 9:6  700-B-a-66 Headgate, Imperial Northside Water Company on Alamo River, near Calipatria, California. 1917 May 30
   Photographer: Hutchins, Wells A.  
   Physical Description: 1 negative  
   Scope and Content Note

Box 9:7  700-B-a-67 Automatic Regulating Gate Installed by A. J. Salisbury, Jr., Water Company No.3, Imperial Vally, California 1917 May 31
   Photographer: Hutchins, Wells A.  
   Physical Description: 1 negative  
   Scope and Content Note
   This gate is very similar in principal to the automatic register gate patented by Mr. Meikle and used in Turlock Irrigation District, although the two designs were worked out independently.

Box 9:8  700-B-a-68 Old Headgate of Lake Land Canal above headgate of People’s Ditch on Kings River. 1917 August
   Photographer: Adams, Frank  
   Physical Description: 1 glass plate negative, 1 print  
   Scope and Content Note
   This was built in 1903 and will have to be replaced before the canal is operated.

Box 9:9  700-B-a-69 Headgate Lemoore Canal and Irrigation Company on Kings River. 1917 August
   Photographer: Adams, Frank  
   Physical Description: 1 glass plate negative  
   Scope and Content Note

Box 9:10  700-B-a-70 Headgate of Crescent Canal, Kings River 1917 August
   Photographer: Adams, Frank  
   Physical Description: 1 glass plate negative  
   Scope and Content Note

Box 9:11  700-B-a-71 Headgate of Consolidated Canal on Kings River. Water wheel in center furnishes power for operating the gates. 1917 August
   Photographer: Adams, Frank  
   Physical Description: 1 glass plate negative, 1 print  
   Scope and Content Note
Box 9:12 700-B-a-72 **Headgate of People's Ditch Company on Kings River. Upper. 1917 August**
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 9:13 700-B-a-73 **Headgate of People's Ditch Company on Kings River. Lower. 1917 August**
Photographer: Adams, Frank
Physical Description: 1 glass plate negative
Scope and Content Note

Box 9:14 700-B-a-74 **Headgate of Fresno Canal on Kings River. 1917 August**
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note
Standing on weir, left to right : State Engineer W. F. McClure, Irving Worthington, Assistant State Engineer P. M. Norboe and Dr. Samuel Fortier.

Box 9:15 700-B-a-75 **Original headgate, now used as "safety bulkhead" on Moore Canal of Yolo Water and Power Co., installed spring of 1903 at cost of $1,000. 1914**
Photographer: Hutchins, Wells A.
Physical Description: 1 negative
Scope and Content Note

Box 9:16 700-B-a-76 **Headgate of James Canal. 1917 October 29**
Photographer: Adams, Frank
Physical Description: 1 glass plate negative
Scope and Content Note
Water for the Tranquility Colony and a portion of the land of the San Joaquin Valley Farm Lands Company is carried through this old structure.

Box 9:17 700-B-a-77 **Automatic Headgate, Modesto Canal. 1915 July 31**
Photographer: Hutchins, Wells A.
Physical Description: 1 negative
Scope and Content Note
Same as 700-B-a-65

Box 9:18 700-B-a-78 **Regulating gates above tunnel south San Joaquin canal. undated**
Photographer:
Physical Description: 1 negative
Scope and Content Note

Box 9:19 700-B-a-79 **Weir and headgates on Kings River, Fresno Irrigation District. 1929 March**
Photographer: Adams, Frank
Physical Description: 1 negative
Scope and Content Note

Box 9:20 700-B-a-80 **Head gates, Folsom Canal, Calif. undated**
Photographer:
Physical Description: 1 glass plate negative
Scope and Content Note
<table>
<thead>
<tr>
<th>Box 9:21</th>
<th>700-B-a-81 Rear view of automatic regulating gate. Oakale Irrigation District, Oakdale, Calif. 1914 December</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: J.T.K.</td>
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<tr>
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<td>Physical Description: 1 glass plate negative, 1 print</td>
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<td>Scope and Content Note</td>
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<td>Box 9:22</td>
<td>700-B-a-82 Automatic gate, Oakdale Irrigation District, Oakdale, Calif. 1914 December</td>
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<td></td>
<td>Photographer: K</td>
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<td>Physical Description: 1 glass plate negative, 1 print</td>
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<td>Scope and Content Note</td>
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<td>Box 9:23</td>
<td>700-B-a-86 Headworks Imperial Canal. 1915</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Physical Description: 1 negative, 1 print</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box 9:24</td>
<td>700-B-a-87 Sluice gates, Laguna dam from California side, Colorado River. 1913 August</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Physical Description: 1 negative, 1 print</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box 9:25</td>
<td>700-B-a-88 Sluice gates and canal headgates, Laguna dam from Calif. side of Colorado River. 1913 August</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Physical Description: 1 negative, 1 print</td>
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<td>Scope and Content Note</td>
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<td>Box 9:26</td>
<td>700-B-a-89 Headgate on lateral at International boundary Imperial V. 1915</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Physical Description: 1 negative, 1 print</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box 9:27</td>
<td>700-B-a-90 Headgate of California Development Co. at Hanlons heading on the Colorado River. 1906 August</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Physical Description: 1 negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<td>Box 9:28</td>
<td>700-B-a-91 The &quot;Rockwood&quot; or Temporary Headgate of the C.D. Co. To be used only in turning the Colorado River. Contains 8,000 ft. of lumber and cost $13,000. 1906 August</td>
</tr>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>
Box 9:29 700-B-a-92 Regulating gates from below, Prof. S. Fortier on right, H. S. Crowe, Superintendent of Canal, in center and caretaker J. L. Montgomery on left. Modesto Canal, Calif. undated
- Photographer: 
  - Physical Description: 1 negative, 2 prints
- Scope and Content Note

Box 9:30 700-B-a-94 Headgate of ditch on Cache Creek-(Happin, Gibson, Graig, et al on top) about 90 second feet going through the gates and three times this volume going through and over the dam. Calif. 1900 May 23
- Photographer: 
  - Physical Description: 1 glass plate negative, 2 prints
- Scope and Content Note

Box 9:31 700-B-a-95 Headgate, Byron Jackson, source of supply wells, Calif. 1900
- Photographer: Adams, Frank
  - Physical Description: 1 glass plate negative, 1 print
- Scope and Content Note

Box 9:32 700-B-a-96 Head gate of Placerville Ditch, El Dorado County. 1919 August
- Photographer: Adams, Frank
  - Physical Description: 1 glass plate negative
- Scope and Content Note

Box 10:1 700-B-a-97 Joint Headgate for Hallwood Irrigation Company, and Cordua Irrigation District Directly Above the Government Debris Weir on Yuma River. 1918 July
- Photographer: Adams, Frank
  - Physical Description: 1 glass plate negative, 3 prints
- Scope and Content Note

Box 10:2 700-B-a-98 Head-gate - Anderson Cottonwood Irrigation District canal. 1924 March 20
- Photographer: Adams, Frank
  - Physical Description: 1 glass plate negative, 1 print
- Scope and Content Note

Box 10:3 700-B-a-99 Flood gate in highway borrow pit used for flooding lands in Big Valley. The use of the highway borrow pits for irrigation channels is quite common in this valley. 1925 June 18
- Photographer: Adams, Frank
  - Physical Description: 1 negative
- Scope and Content Note

Box 10:4 700-B-a-100 A typical flood gate in a slough in Big Valley near Bieber. 1925 June 18
- Photographer: Adams, Frank
  - Physical Description: 1 negative
- Scope and Content Note
  By means of this gate the adjoining lands are flooded, this being the common method of irrigation in Big Valley.
<table>
<thead>
<tr>
<th>Box 10:5</th>
<th>700-B-a-101 Headgate of the Fresno Irrigation District, on Kings River. 1929 March 14</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
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<td></td>
<td>Slide No. 640</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 10:6</th>
<th>700-B-a-102 Dahlia Heading from lower side. Automatic spillway at right to maintain constant water level upstream. Imperial Irrig. District. 1931 April</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 negatives</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 10:7</th>
<th>700-B-a-103 Automatic electrically operated main headgate to Consolidated Canal, water level downstream. 1929 March</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 10:8</th>
<th>700-B-a-104 Automatic electrically operated main headgate to Consolidated Canal. 1929</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 10:9</th>
<th>700-B-a-105 Headgate to More Ditch, Cache Creek, Yolo County. 1931 September</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Givan, C.V.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 10:10</th>
<th>700-B-a-106 Intake on Imperial Canal at Andrade, California undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 10:11</th>
<th>700-B-a-107 Headgate undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Physical Description: 1 print</td>
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<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 10:12</th>
<th>700-B-a-109 Rockwood Heading of Imperial District Canal Andrade, Colorado River undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 10:13</th>
<th>700-B-a-110 Headgates on south side Capay dam. 1929 April 28</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>
| Box 10:14 | 700-B-a-111 **Headgates on north side Capay dam. 1929 April 28**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| --- | --- |
| Box 10:15 | 700-B-b-1 **Concrete and steel headgate on Turlock Canal at outlet of Dawson Lake, Calif. undated**  
Photographer:  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 10:16 | 700-B-b-2 **Headgate of Keeno Power Canal in Link River between Upper and Klamath Lakes, Klamath Reclamation Service Project, Oregon. 1920 September**  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 10:17 | 700-B-b-3 **Headworks to Hansen Canal. Adjustable submerged orifice measuring device and cast iron rectangular gate. Fresno Irrigation District. 1929 May 6**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| Box 10:18 | 700-B-b-4 **Headgate to Gould Canal, Fresno Irrigation District, capacity about 375 second feet. Four foot cast iron rectangular gates. 1929 May 6**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 10:19 | 700-B-b-5 **Headworks to Consolidated Irrigation District Canal at division from Kings River at Centerville. 10 radial gates with center 6 automatically controlled to keep constant water level downstream. Electric control. 1929 May 6**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative, 5 prints  
Scope and Content Note  
Slide No. 648 |
| Box 10:20 | 700-B-b-6 **Fish screen (open) in south side Canal near Capay Weir. Yolo Water & Power Co. 1929 April 28**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| Box 10:21 | 700-B-b-7 **Check gate or drop at head of Fowler Switch Canal. One of first concrete checks built by Mr. I. H. Teilman, Engineer, Consolidated Irrig. Dist. See Negative 700-K-28 1929 April 18**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: envelope only, no print  
Scope and Content Note |
| Box | 700-B-b-8 | Headgate on main canal at head of Lateral No. 3, Modesto Irrigation District. Automatic radial gate to keep constant water level upstream from gate. 1929 August |
| Box 10:23 | 700-B-b-9 | Headgate Lytle Creek, water spreading grounds near San Berandino, Calif. Upstream from Parshall flume. 1933 June 29 |
| Box 10:24 | 700-B-b-10 | Parshall flume and headgate 1933 June 29 |
| Box 10:25 | 700-B-b-11 | Regulating gates at head of Imperial Canal. 1927 |
| Box 10:26 | 700-B-b-12 | New headgate at Imperial canal north of Cendrade. (3 views) circa 1926-1927 |
| Box 10:27 | 700-B-c-1 | Delivery gate with radial shutter, taken before canal banks were completed. Used on Turlock Irrigation District, Calif. 1912 June |
| Box 10:28 | 700-B-d-2 | Lifting device for the radial gates used in the outlet structure for Dallas Lake Reservoir, on the Modesto Irrig. Dist., Calif. 1912 June |
| Box 10:29 | 700-B-d-3 | No. 371. Operating machinery, regulating gates south San Joaquin canal. undated |
| Box 10:30 | 700-B-d-4 | Regulating gate at Imperial Canal. 1926 |
| Box 10:31 | 700-C-1 **Flushing and regulating gates, Modesto Canal, Calif. undated**  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 10:32 | 700-C-3 **Sluice gate at lower end of lateral made of rubble masonry. Imperial Irrigation District 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| Box 10:33 | 700-C-4 **Experimental sand-trap flume being erected near Rositas Heading of Imperial Irrigation District, by R.L. Parshall. 1934 March 24**  
Photographer: Adams, Frank  
Physical Description: 2 negatives  
Scope and Content Note  
Partially constructed canal and bulkhead, and flume platform in distance. (View A). Platform on which flume is being erected and bulkhead and partially excavated canal leading to flume. (View B). |
| Box 11:1 | 700-D-1 **Wasteway of the Central Irrigation District, Nebraska. 1916 December 6**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
This is a concrete structure, although the headgate is of wood, and was installed by the Central Irrigation District. |
| Box 11:2 | 700-D-2 **Heading and Waste-way, East Ditch, Big Rock Creek Irrigation District, California. 1915 June 30**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 2 prints  
Scope and Content Note  
This shows a section of the ditch immediately below the portion shown in Picture No. |
| Box 11:3 | 700-D-3 **Spillway on Alamo River, below diversions of Imperial North End Water Company and Imperial Northside Water Company, California 1917 May 30**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 11:4 | 700-D-4 **Spillway at western end of Lake Almanor Dam, Plumas County, Cal. 1917 September**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note  
This spillway is 150 feet wide in that portion above the bridge. |
| Box 11:5 | 700-D-5 **Spillway, Lyons Dam, South Fork Stanislaus River, Calif. undated**  
Photographer:  
Physical Description: 1 negative  
Scope and Content Note |
Box 11:6 700-D-6 **Spillway, Lyons Dam, South Fork Stanislaus River, Calif. undated**  
Photographer:  
Physical Description: 1 negative  
Scope and Content Note

Box 11:7 700-D-7 **Wasteway “Middle Dam” on South Fork of Stanislaus River, Calif. 1908**  
Photographer:  
Physical Description: 1 negative  
Scope and Content Note

Box 11:8 700-D-8 **View of spillway from lower side, Phoenix Dam near Sonora, Calif. undated**  
Photographer:  
Physical Description: 1 negative  
Scope and Content Note

Box 11:9 700-D-9 **Rositas wasteway, Imperial Valley, Calif. 1913 August**  
Photographer: Tait, C.E.  
Physical Description: 1 negative  
Scope and Content Note

Box 11:10 700-D-10 **Wateway “Lower Strawberry Dam”, South Fork of Stanislaus River, Calif. 1908**  
Photographer:  
Physical Description: 1 negative  
Scope and Content Note

Box 11:11 700-D-11 **Spillway, Sweetwater dam, San Diego County, Calif. 1911 October**  
Photographer: Tait, C.E.  
Physical Description: 1 negative  
Scope and Content Note

Box 11:12 700-D-12 **Waste Gate, Turlock Irrigation District, Calif. 1912 June**  
Photographer: F.C.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 11:13 700-D-13 **Spillway on main ditch S.A.V.I. Co. above Olive, Calif. 1919 April**  
Photographer: F.W.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 11:14 700-D-14 **Outlet Clear Lake from Island showing character of valley through which Cache Creek flows from Clear Lake, also showing mouth of creek, two miles from Cache Creek riffle, Calif. 1900**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note
<table>
<thead>
<tr>
<th>Box 11:15</th>
<th>700-D-20 Side spillway on East High Line Canal built of rubble masonry. Calipatria Division, Imperial Irrigation District. 1931 April</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 11:16</th>
<th>700-D-21 Downstream view of washout of Spillway at NW corner of University Farm, Davis, California, which occurred on May 29, 1932. 1932 June 17</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Schultz, L.C.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 3 negatives, 2 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Several views not mounted</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 11:17</th>
<th>700-D-22 Washout of Spillway at NW corner of University Farm, Davis, Calif. May, 1932. Looking into wash from headgate to north lateral. 1932 June 17</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Schultz, L.C.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 11:18</th>
<th>700-D-23 2 views. Washout of Spillway at NW corner of University Farm, Davis. May, 1932. Looking upstream from spillway location. 1932 June 17</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Schultz, L.C.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 negatives, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 11:19</th>
<th>700-D-24 Spillway on Stony Gorge dam. Orland project. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 11:20</th>
<th>700-E-1 Riffle on the Los Angeles Aqueduct, California. 1914</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.L.K.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Note by Veihmeyer, Frank J.-abandoned, sometime before 1936</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 11:21</th>
<th>700-E-2 Chute, Undergoing Lining, Orland Project, California. 1914</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.L.K.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 11:22</th>
<th>700-E-3 Fish Ladder, Orland Irrigation Project, California. 1914</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.L.K.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative or 1 glass plate negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 11:23</th>
<th>700-E-5 Section of Newly Constructed Chute, Orland Project, California. 1914</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.L.K.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>
Box 11:24  700-E-6 **Another Picture of the River Chute, Shown By the Preceding Picture No. Los Angeles Aqueduct, California. 1914 December**  
Photographer: J.L.K.  
Physical Description: 1 glass plate negative  
Scope and Content Note  
Abandoned, sometime before 1936

Box 11:25  700-E-7 **Concrete chute wasteway into river channel. Imperial Irrigation District. Lower cut-off wall rests on heavy sheet piling. 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note

Box 11:26  700-E-8 **Rubble masonry chute on spillway. Imperial Irrigation District. 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note

Box 11:27  700-F-123 **Constructing Concrete Drop with Warped Transition Walls, Ceres Main, Turlock Irrigation District, Cal. 1915 December 1**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 11:28  700-F-124 **Parks Drop, Ceres Main Canal, Turlock Irrigation District, Cal. 1915 July 30**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 2 prints  
Scope and Content Note  
The automatic device for regulating the radial gate is shown on the left.

Box 11:29  700-F-125 **Check Drop and Weir, Sacramento Valley Irrigation Co., Willows, Cal. 1915 June 5**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
This structure is on the main canal, north-east of Willows. Several gates were used for the installation of the slanting weirs. The register box is shown on the right. The entire head of water going down this canal is shown going over the three openings. The grade is so slight that the amount of water actually carried is much less than it would appear to be.

Box 11:30  700-F-126 **Typical Drop with Automatic Regulating Gate on the Ceres Main Canal, Turlock Irrigation District, Cal. 1915 July 30**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 12:1  700-F-127 **Drops in the Main Distributing Furrow in a Citrus Orchard near Penryn, California. undated**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 3 prints  
Scope and Content Note  
Each drop is protected from erosion by means of a piece of building paper.
Box 12:2  700-F-128 Concrete Drop, Modesto Irrigation District California.  1916 July 24  
Photographer: Robertson, Ralph D.  
Physical Description: 2 negatives, 2 prints  
Scope and Content Note

Box 12:3  700-F-129 Hickman Concrete Drop on Turlock Canal, California.  1914  
Photographer: J.L.K.  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 12:4  700-F-130 Wood Drop in Main Canal, Kern County Land Co., Bakersfield, California.  
1914  
Photographer: J.L.K.  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 12:5  700-F-131 Concrete Drop and Check on Fowler Switch Canal at Fresno, California.  
1914  
Photographer: J.L.K.  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 12:6  700-F-132 Typical Drop and Weir in the Orland Project, California.  1914  
Photographer: J.L.K.  
Physical Description: 1 glass plate negative  
Scope and Content Note  
Slide No. 650

Box 12:7  700-F-133 Partially Constructed Forms for Pouring Concrete for Drop in Orland Project Lateral, California.  1914  
Photographer: J.L.K.  
Physical Description: 1 glass plate negative  
Scope and Content Note  
Picture shows the extent of reinforcement.

Box 12:8  700-F-134 Concrete Drop, Sacramento Valley Irrigation Project, California.  1914  
Photographer: J.L.K.  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 12:9  700-F-135 Partially Constructed Forms for Pouring Concrete for Drop in Orland Project Lateral, California.  1914  
Photographer: J.L.K.  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 12:10  700-F-136 Typical Weir and Drop, Orland Project, California.  1914  
Photographer: J.L.K.  
Physical Description: 1 glass plate negative  
Scope and Content Note
Box 12:11
700-F-137 Ventura Avenue Drop on Fresno Canal. August, 1917. 1917 August
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note
   Shows effect of "backlash" below the drop. A similar condition exists on the opposite side not shown in the picture.

Box 12:12
700-F-138 Drop on Spalding Main Lateral near Norman, California. 1918 June 1
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 3 prints
   Scope and Content Note
   Water is measured over this drop to rice land included in duty of water investigations, 1918. Picture shows field engineer, H.M. Stafford changing a record sheet on the register.

Box 12:13
700-F-139 Silt sampling station, Niland, Calif. Check gate. 1917
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 negative
   Scope and Content Note

Box 12:14
700-F-140 Drop central branch Imperial canal at international boundary. 1915
   Photographer: Tait, C.E.
   Physical Description: 1 negative
   Scope and Content Note

Box 12:15
700-F-141 Concrete drop, central branch, Imperial Valley Canal, near Mexicali, Mexico. 1911
   Photographer: Tait, C.E.
   Physical Description: 1 negative
   Scope and Content Note

Box 12:16
700-F-142 Reconstruction of timber drop in main lateral canal. Imperial Valley, near Imperial, Calif. 1914 December
   Photographer: J.T.K.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 12:17
700-F-143 Drop to relieve head-works, Imperial Water Co, No. 1. 1903 June
   Photographer: J.E.R.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 12:18
700-F-144 Imperial Valley, Calif. 1914 December
   Photographer: J.T.K.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 12:19
700-F-145 Combined drop and check on Crockers and Hoffman Canal, Merced Co., Calif. 1903 August
   Photographer: Fortier, Samuel
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note
<table>
<thead>
<tr>
<th>Box 12:20</th>
<th>700-F-146</th>
<th>15-foot drop on Modesto Canal, Calif. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative</td>
<td></td>
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</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 12:21</th>
<th>700-F-147</th>
<th>Wooden drop, Modesto Canal, Calif. 1904</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative</td>
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<tr>
<td>Scope and Content Note</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 12:22</th>
<th>700-F-148</th>
<th>Reinforced concrete drop, Modesto Irrigation District, Calif. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative</td>
<td></td>
<td></td>
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<tr>
<td>Scope and Content Note</td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 12:23</th>
<th>700-F-149</th>
<th>Orland Project, U.S. Reclamation Service, Orland, Calif. 1914 November</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: J.T.K.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative</td>
<td></td>
<td></td>
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<tr>
<td>Scope and Content Note</td>
<td></td>
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</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Box 12:24</th>
<th>700-F-150</th>
<th>Canal drop, Palo Verde Valley, Calif. 1913 August</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Tait, C.E.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 12:25</th>
<th>700-F-151</th>
<th>Drop and regulating works on main canal. South San Joaquin Irrigation District, Manteca, Calif. 1914 December</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: J.T.K.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative</td>
<td></td>
<td></td>
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<tr>
<td>Scope and Content Note</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 12:26</th>
<th>700-F-152</th>
<th>Looking downstream from top of drop and regulating works on main canal, South San Joaquin Irrigation District, Manteca, Calif. 1914 December</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: J.T.K.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 12:27</th>
<th>700-F-153</th>
<th>Construction of drop, lower side, Turlock Canal, Calif. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 12:28</th>
<th>700-F-154</th>
<th>Drop during repairing, Turlock Canal, Calif. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative, 1 print</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 12:29</th>
<th>700-F-155</th>
<th>Filling in above a drop, Turlock Canal, California. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Box 12:30 | 700-F-156 *Construction of drop, Turlock Canal, Calif.* undated  
  Photographer:  
  Physical Description: 1 negative, 1 print  
  Scope and Content Note |
|---|---|
| Box 12:31 | 700-F-157 *Concrete Drop, Turlock Irrigation District, Calif.* This drop is on the High Line Canal. Note the extreme lightness of the side walls, being but 4 inches in thickness at the top. 1912 June  
  Photographer: F.C.S.  
  Physical Description: 1 glass plate negative  
  Scope and Content Note |
| Box 12:32 | 700-F-160 *Hickman Drop, Main Canal, Turlock Irrigation District.* 1929 August  
  Photographer: Christiansen, Jerald Emmet  
  Physical Description: 1 negative  
  Scope and Content Note |
| Box 12:33 | 700-F-161 *Drop on lateral canal, Wapato Irrigation Project, Yakima Valley, Washington.* 1932  
  Photographer: Adams, Frank  
  Physical Description: 1 negative  
  Scope and Content Note |
| Box 13:1 | 700-G-29 *Inverted Syphon, Railroad Crossing, Willows, Cal.* 1915 June 3  
  Photographer: Hutchins, Wells A.  
  Physical Description: 1 negative, 1 print  
  Scope and Content Note  
  This is on the Main Canal of the Sacramento Valley Irrigation Co., just south of Willows. |
| Box 13:2 | 700-G-30 *Siphon Across Railroad, Gem Irrigation District, Idaho.* 1916 December 30  
  Photographer: Hutchins, Wells A.  
  Physical Description: 1 negative, 1 print  
  Scope and Content Note  
  This is the type of siphon used very extensively on the laterals in this District. |
| Box 13:3 | 700-G-31 *Laying Concrete Siphon, Orland Project, California.* 1914  
  Photographer: J.L.K.  
  Physical Description: 1 glass plate negative  
  Scope and Content Note |
| Box 13:4 | 700-G-33 *Newly Constructed Siphon, Orland Project, California.* 1914  
  Photographer: J.L.K.  
  Physical Description: 1 glass plate negative  
  Scope and Content Note |
| Box 13:5 | 700-G-40 *Irrigating siphon, El Centro. Used principally to siphon water over ditch banks to irrigate country roads.* 1913  
  Photographer: Tait, C.E.  
  Physical Description: 1 negative  
  Scope and Content Note  
  Slide No. 653 |
<p>| Box 13:6 | 700-G-41 Reinforced concrete siphon under S.P. R’y. Co’s. track adjoining town to the south. Sacramento Valley Irrigation Company’s Main Canal Willows, Calif. 1914 November |
| Box 13:7 | 700-G-42 Sheet metal siphon used in center opening of 3 space check gates on small laterals in Modesto Irrigation District. Capacity 20 to 25 c.f.s. Used to prevent excessive heads from overtopping banks. 1929 August |
| Box 13:8 | 700-G-43 Sheet metal syphon used for irrigation of alfalfa by O.W. O’Bannion 1 mile east of Winters 1931 June |
| Box 13:9 | 700-G-44 Assembling siphons-Yuma project, Colorado River undated |
| Box 13:10 | 700-G-45 Assembling siphons on Yuma project, Colorado River undated |
| Box 13:12 | 700-G-50 Discharge end of Baja California siphons. See Internation Commission United States and Mexico report. House Document 359. 1929 |
| Box 13:14 | 700-G-52 Fabricated wooden syphons taken by J.D. Long, Iowa. 1942 Spring |</p>
<table>
<thead>
<tr>
<th>Box 13:15</th>
<th>700-G-53 Fabricated wooden syphons taken by J. D. Long, Iowa 1942 Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Long, J.D.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 13:16</td>
<td>700-G-54 Siphons set up to irrigate beans southwest of Woodland. 1947 October 2</td>
</tr>
<tr>
<td></td>
<td>Photographer: Johnston, C.N.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 13:17</td>
<td>700-G-55 Tapoon and siphons. Irrigating tomatoes east of Woodland, 4 miles. 1947 October 2</td>
</tr>
<tr>
<td></td>
<td>Photographer: Johnston, C.N.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 13:18</td>
<td>700-G-56 Siphons set up to irrigate tomatoes, 4 miles East of Woodland, 1947 October 2</td>
</tr>
<tr>
<td></td>
<td>Photographer: Johnston, C.N.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 13:19</td>
<td>700-G-57 Siphons irrigating beans, southwest of Woodland. 1947 October 2</td>
</tr>
<tr>
<td></td>
<td>Photographer: Johnston, C.N.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 13:20</td>
<td>700-G-58 8&quot; Portable Siphons being used in the Woodland area for irrigating alfalfa. 1950 May</td>
</tr>
<tr>
<td></td>
<td>Photographer: Marr, J.C.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 13:21</td>
<td>700-G-59 Portable aluminum siphons. Black siphon treated with Steel-Tex. White or untreated siphon submerged in lab with treated one June 19, 1951. Picture taken month later showing corrosion on untreated siphon. Treated siphon shows no corrosion. 1951 July 19</td>
</tr>
<tr>
<td></td>
<td>Photographer: Stockton, J.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 13:22</td>
<td>700-G-60 Alfalfa field being irrigated from a ditch with 8-inch siphons. The location is northwest of Woodland, Calif. 1950</td>
</tr>
<tr>
<td></td>
<td>Photographer: Marr, J.C.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 13:23</td>
<td>700-H-78 Concrete Flume, In Course of Construction, Across Dry Creek, Modesto Irrigation District, California. 1915 December 4</td>
</tr>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>
Box 13:24  700-H-79  **Rectangular Flume Crossing Swale, Pajaro Valley, Cal. 1915 August 31**
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note
Where the flume is thus close to the ground, simple wooden supports are used, consisting usually of 2/4 pieces of lumber.

Box 13:25  700-H-80  **Iron Flume and Trestle, Lockwood Irrigation District, Montana. 1916 November 28**
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note
This is on the canal which heads at the 60-foot lift.

Box 13:26  700-H-81  **Galvanized Iron Flume, Wooden Substructure, and Concrete Abutments, Naches-Selah Irrigation District, Washington. 1916 November 16**
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note
This is the flume, the lower end of which appears in Picture No.

Box 13:27  700-H-82  **Main Flume, Cascade Irrigation District, Washington. 1916 November 19**
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note
This flume is of iron with wooden sub-structure and concrete abutments.

Box 13:28  700-H-83  **Flume and Trestle on Steep Hillside, Cascade Irrigation District, Washington. 1916 November 19**
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 2 prints
Scope and Content Note
This gives an idea of the size of the flume. This flume was installed by the Irrigation District to replace an old wooden flume, the cost being defrayed by the proceeds of the District's bond issue.
<table>
<thead>
<tr>
<th>Box 13:31</th>
<th>700-H-86 Main Canal, Naches-Selah Irrigation District, in Yakima Valley, Washington. 1916 November 16</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This shows the lower end of a galvanized iron flume and the concrete-lined section to which it is joined by a concrete transition. This is on the upper part of the canal, quite a distance from the irrigated lands which it serves. This canal is mostly in earth. Formerly wooden flumes were used to carry the canal around gulches on grade, but the present policy is to substitute these wooden flumes with steel flumes on trestles crossing the gulches directly.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 13:32</th>
<th>700-H-87 This and Picture No. 316 show wooden &quot;V&quot; flumes used in carrying water down steep slopes of the Sierra foothills of Placer County, California. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 2 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Water is distributed from these flumes to furrows through holes bored in the bottoms of the flumes. The heavy growth of oats and other wild volunteer crops is shown in both pictures. This heavy growth is common to most of the Sierra foothill orchards of Placer County during the irrigation season, due to entire absence of cultivation after irrigation begins in the spring.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 13:33</th>
<th>700-H-88 Flume on Lower Slope of Mockingbird Canyon Lake Dam, Gage Canal Company, Riverside, California. 1915 December 14</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 3 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This flume was constructed of American ingot iron or &quot;Armco&quot; iron, No. 18, with a substructure of angle iron. The total cost of this flume and substructure in place was $5,076.19. The material of which the dam was constructed was hydraulicked around the foundation of this flume, consequently, the flume rests on its own foundation and does not depend upon the dam for support.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 13:34</th>
<th>700-H-89 Gasburg Flume, Modesto Irrigation District, California. 1915 December 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 2 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This was the last of the serveral wooden flumes on the main canal which were replaced by more permanent structures. With the exception of the Dry Creek flume, which was replaced by a concrete structure, all of the flumes of the Modesto Irrigation District were replaced by fills - most of them hydraulicked fills with concrete lined canals.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 13:35</th>
<th>700-H-90 See Picture No. 700-H-87 undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
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</tbody>
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<thead>
<tr>
<th>Box 13:36</th>
<th>700-H-91 Dry Creek Flume, Modesto Irrigation District California. 1916 July 24</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>
Box 13:37  700-H-92 Approach to Dry Creek Flume, Modesto Irrigation District, California. 1916 July 24

Photographer: Robertson, Ralph D.
Physical Description: 1 negative, 1 print
Scope and Content Note

Box 13:38  700-H-93 Hydrants, Distributing Head Flume, and Masonry Waste Ditch, in the Highgrove Section near Riverside, Cal. 1914

Photographer: Adams, Frank
Physical Description: 1 negative, 1 print
Scope and Content Note
A line of works of this kind is spaced at regular intervals in this grove, the slope being from left to right and also in the direction of the flume and waste ditch. By use of this complete method, all waste is backed up in the masonry ditch at the lower ends of the furrows and returned to the distributing flume at suitable intervals.

Box 13:39  700-H-94 Concrete Distributing Flume, Paralleling Covina Ditch, California. 1914

Photographer: Adams, Frank
Physical Description: 1 negative, 2 prints
Scope and Content Note
This picture illustrates one main disadvantage of the concrete flume over the underground system. The flume is constantly filled with trash and such a distributary requires considerable headland for the turning of teams. It is only in the groves of considerable slope that such flumes are utilized much now. Some of the growers like them better than an underground system, where the slope is considerable, because it is easier to carry equal quantities of water into the furrows from flumes on side hills than from standpipes.

Box 13:40  700-H-95 Dry Creek Flume, Modesto Irrigation District California. 1916 July 24

Photographer: Robertson, Ralph D.
Physical Description: 1 negative, 1 print
Scope and Content Note

Box 14:1  700-H-96 Cobble Head Flume, in the Covina Section, California. 1914

Photographer: Adams, Frank
Physical Description: 1 negative, 2 prints
Scope and Content Note

Box 14:2  700-H-97 Efficient Distribution from Concrete Flume in the Rolling Section back of Riverside, California. 1914

Photographer: Adams, Frank
Physical Description: 1 negative, 1 print
Scope and Content Note
The flume is carried down a fairly steep slope but water is easily taken out on contours into each furrow. A row of red geraniums alongside the flume gives to this scene some of the beauty which makes many of the citrus groves exceedingly attractive.

Box 14:3  700-H-98 Distributing Flume in the Highgrove Section, California. 1914

Photographer: Adams, Frank
Physical Description: 1 negative, 1 print
Scope and Content Note
Box 14:4 700-H-99 A Concrete Distributing Flume near Covina, California. 1914
Photographer: Adams, Frank
Physical Description: 1 negative, 1 print
Scope and Content Note
Slide No. E402. Permanent checks are shown directly below each distributing hole. This arrangement gives a uniform head over each of the outlets. Permanent checks of this nature, however, are not common.

Box 14:5 700-H-100 Large corrugated Iron Flume on main canal of Pacific Gas and Electric Company a short distance above Auburn on road to Nevada City. 1917 August
Photographer: Hutchins, Wells A.
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note

Box 14:6 700-H-101 Completed portion of gunite bench flume, Lindsay-Strathmore Irrigation District, Aug. 1917. 1917 August
Photographer: Adams, Frank
Physical Description: 1 glass plate negative
Scope and Content Note

Box 14:7 700-H-103 Setting forms and reinforcement on flume of Lindsay-Strathmore Irrig. Dist. 1919
Photographer:
Physical Description: 1 glass plate negative
Scope and Content Note

Box 14:8 700-H-104 General view of flume of Lindsay-Strathmore Irrigation District. Note barrier in flume to hold back water. 1919
Photographer:
Physical Description: 1 negative
Scope and Content Note

Box 14:9 700-H-105 Side walls complete and forms removed from flume of Lindsay-Strathmore Irrigation District. Gun at right. 1919
Photographer:
Physical Description: 1 negative
Scope and Content Note

Box 14:10 700-H-107 Flume on main canal in Potter Valley Irrigation District. 1930
Photographer: Adams, Frank
Physical Description: 2 negatives, 1 print
Scope and Content Note

Photographer: Tait, C.E.
Physical Description: 1 negative, 1 print
Scope and Content Note
| Box 14:12 | 700-H-111 **Fullerton Ditch of Anaheim Union Water Company, Anaheim, Calif. Lower end of wooden flume about eight miles from Anaheim.** Experiment No. 65, Project 1-45-P. 1913 August 21  
Photographer: F.C.S.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 14:13 | 700-H-112 **Distributing flume made by cementing spaul, split granite cobbles, and small boulders, Redlands, Calif.** 1903 December  
Photographer: Fortier, Samuel  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 14:14 | 700-H-113 **Cement head flume for orchard irrigation near Pomona, Calif.** 1910  
Photographer: Tait, C.E.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 14:15 | 700-H-114 **Cement head flume, orchard irrigation under Gage Canal, Riverside, Calif.** 1913  
Photographer: Tait, C.E.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 14:16 | 700-H-115 **Cement head flume, Arlington Fruit Co’s. Ranch, Riverside, Calif.** undated  
Photographer:  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 14:17 | 700-H-116 **Cement head flume, J.H. Williams ranch, Porterville, Calif.** undated  
Photographer:  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 14:18 | 700-H-117 **Cement concrete flume with wooden checks in bottom to increase head-over openings on side, J.H. Williams' orchard, Porterville, Calif.** 1903 October  
Photographer: M  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 14:19 | 700-H-118 **Cement concrete flume on steep grade. J.H. Williams' orchard, Porterville, Calif.** 1903 October  
Photographer: M  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 14:20 | 700-H-119 **Cement head-flume for irrigating orange trees, Porterville, Calif.** undated  
Photographer:  
Physical Description: 1 glass plate negative  
Scope and Content Note |
Box 14:21  700-H-120  Cement head-ditch for furrow irrigation. undated
Photographer:
Physical Description: 1 glass plate negative
Scope and Content Note

Box 14:22  700-H-121  Semicircular flume formed of galvanized iron on wooden supports, on latteral of Crocker and Hoffman Canal, Merced Co., Calif. 1903 August
Photographer: Fortier, Samuel
Physical Description: 1 glass plate negative
Scope and Content Note

Box 14:23  700-H-122  Part of San Diego Flume, now owned by Cuyamaca Water Company. 1912
Photographer: Tait, C.E.
Physical Description: 1 negative
Scope and Content Note

Box 14:24  700-H-123  20-foot flume over Delaney Gulch showing tunnels at lower end, Turlock Canal, Calif. undated
Photographer: Adams, Frank
Physical Description: 1 negative
Scope and Content Note

Box 14:25  700-H-124  Flume over New River supplying District No. 8, constructed in 1903, Imperial Valley, Calif. undated
Photographer:
Physical Description: 1 glass plate negative
Scope and Content Note

Box 14:26  700-H-125  Steel flume on Gage canal at Mockingbird Dam. 1915 August
Photographer: Tait, C.E.
Physical Description: 1 negative
Scope and Content Note

Box 14:27  700-H-126  Morton Gulch Flume, Modesto Canal, Calif. undated
Photographer:
Physical Description: 1 negative
Scope and Content Note

Box 14:28  700-H-127  Peasley Culch flume and hydraulic fill in course of construction, Turlock Main Canal. undated
Photographer:
Physical Description: 1 glass plate negative
Scope and Content Note

Box 14:29  700-H-128  Peasly Fill, Turlock Irrigation District, Calif. This was originally crossed by a flume and was replaced by this hydraulic fill with rock rip rap, and the canal lined with cement across the fill. The water from the gulch is passed through the fill by a masonry culvert. 1912 June
Photographer: F.C.S.
Physical Description: 1 glass plate negative
Scope and Content Note
<table>
<thead>
<tr>
<th>Box</th>
<th>Negatives and prints</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:30</td>
<td>700-H-129 Wooden flume. undated</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Photographer:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>14:31</td>
<td>700-H-130 Trestle-carrying flume of Anderson-Cottonwood Irrigation District across Sacramento River 1924 March 20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 glass plate negatives, 4 prints</td>
<td></td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
<td></td>
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<tr>
<td>14:32</td>
<td>700-H-131 Reinforced concrete flume on Main Canal, Modesto Irrigation District Capacity about 1800 c.f.s. Length 1000'. 2 views. 1929 August</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 negatives, 1 print</td>
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<td>Scope and Content Note</td>
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<tr>
<td>14:33</td>
<td>700-H-132 Lennon type flume, steel I-beam girders. Lateral No. 4 north. West Stanislaus Irrigation District 1929 August</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
<td></td>
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<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>14:34</td>
<td>700-H-133 Intake to Dry Creek Flume on Main Canal. Note accumulation of sand in foreground. Sand to be removed by sluicing. Sluiceway at left. Modesto Irrigation District. 1930 January</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
<td></td>
</tr>
<tr>
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<tr>
<td></td>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>14:35</td>
<td>700-H-134 Lennon type flume across storm drain near south end of Salton Sea. 1931 April</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
<td></td>
</tr>
<tr>
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<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
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<tr>
<td>14:36</td>
<td>700-H-135 Detail of framing for Lennon type flume across storm drain near south end of Salton Sea. Imperial Irrigation District. (same as 700-H-134) 1931 April</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
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<tr>
<td>15:1</td>
<td>700-H-136 Lennon type flume across storm drain, southwest side of Salton Sea. Imperial Irrigation District. 1931 April</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
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<tr>
<td>15:2</td>
<td>700-H-137 Gunite flume. Capacity 44 c.f.s., Vista Irrigation District, Vista, Calif 1931 April</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
<td></td>
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<tr>
<td>Box 15:3</td>
<td>700-H-138 Transition section at outlet of Lennon type flume. Similar transition at inlet. 1931 April</td>
<td></td>
</tr>
<tr>
<td>Box 15:4</td>
<td>700-H-139 New gunite flume constructed 1929. La Mesa, Lemon Grove, and Spring Valley Irrigation District. 1931 April</td>
<td></td>
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<tr>
<td>Box 15:5</td>
<td>700-H-140 Old wooden flume built 1876-78. Still in use 1931. Flume constructed of redwood and lined with tar roofing paper. Has required considerable maintenance. La Mesa, Lemon Grove, and Spring Valley Irrigation District, La Mesa, Calif. (4 views) 1931 April</td>
<td></td>
</tr>
<tr>
<td>Box 15:6</td>
<td>700-H-141 Corrugated iron pipe flume on private ditch crossing deep drain. Imperial Irrigation District. (2 views) 1931 April</td>
<td></td>
</tr>
<tr>
<td>Box 15:7</td>
<td>700-H-142 Temporary wooden flume on canal extension. Note that side walls act as stringers. Imperial Irrigation District. (2 views) 1931 April</td>
<td></td>
</tr>
<tr>
<td>Box 15:8</td>
<td>700-H-143 Full section of 8-inch Simplex flume. Purchased from California Corrugated Culvert Company. Used in Picnic Day exhibit, April 16, 1932 1932 April 18</td>
<td></td>
</tr>
<tr>
<td>Box 15:9</td>
<td>700-H-144 Elevated flume. Distribution system for irrigation water, Wenatche, Washington 1932 June</td>
<td></td>
</tr>
<tr>
<td>Box 15:10</td>
<td>700-H-145 Concrete distributing flume, East Redlands area 1932 May</td>
<td></td>
</tr>
<tr>
<td>Box 15:11</td>
<td>700-H-146 Concrete farm distributing flume in East Highlands. Trash screen in foreground 1932 May</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 15:12</th>
<th>700-H-147700-H-148 Dilzara flume passing over Mathin Creek, San Diego Co. Dulzara Conduit, San Diego Co. 1929</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: envelope only, no print</td>
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<tr>
<td>Scope and Content Note</td>
<td></td>
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<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative (broken)</td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td>Southside Ditches are People's, Last Chance and Lemoore. Water in the farther stream goes to Murphy Slough Ditches. This is a critical point in water distribution on Kings River. A few shovel-fulls of sand or sacks in the channel or a cut out from floods may change the balance between the northside and southside interests.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 15:14</th>
<th>700-I-3 Weir across Kings River at head of Fresno and Consolidated Canals. 1917 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td>This is known as the Fresno Weir.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 15:15</th>
<th>700-I-30 Diversion at entrance of Covina and Azusa ditches. Calif. 1919 April</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: F.W.S.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 15:16</th>
<th>700-I-35 Government Debris Weir Across Yuba River During Low Water Period, Summer 1918, About One-half Inch of Water Only in Depth Passing Over the Weir. 1918</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td>The headgate of the Hallwood Irrigation Company, and of Cordua Irrigation District is on the right bank of the River (going downstream) directly above the west end of this weir.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 15:17</th>
<th>700-I-39 Weir across Kings River at head of Crescent Canal. August, 1917. 1917 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<tr>
<td>Scope and Content Note</td>
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<tr>
<td>Box</td>
<td>Item</td>
</tr>
<tr>
<td>-----</td>
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</tr>
<tr>
<td>15:18</td>
<td>700-I-40</td>
</tr>
<tr>
<td>15:19</td>
<td>700-J-33</td>
</tr>
<tr>
<td>15:20</td>
<td>700-J-35</td>
</tr>
<tr>
<td>15:21</td>
<td>700-J-36</td>
</tr>
<tr>
<td>15:22</td>
<td>700-J-37</td>
</tr>
<tr>
<td>15:23</td>
<td>700-J-38</td>
</tr>
<tr>
<td>15:24</td>
<td>700-J-39</td>
</tr>
<tr>
<td>15:25</td>
<td>700-J-40</td>
</tr>
</tbody>
</table>
Box 15:26  700-J-41 Setting Forms for an Outlet Gate, Orland Project, California. 1914
    Photographer: J.L.K.
    Physical Description: 1 glass plate negative
    Scope and Content Note

Box 15:27  700-J-43 Type of Levee Gate, Dodge Rice Fields, West of Nelson, California. 1917
    August
    Photographer: Adams, Frank
    Physical Description: 1 glass plate negative, 2 prints
    Scope and Content Note

Box 15:28  700-J-46 Canals and 4-way structure, Tulare Lake Section. 1918 May 5
    Photographer: Adams, Frank
    Physical Description: 1 glass plate negative, 2 prints
    Scope and Content Note

Box 15:29  700-J-50 Artistic irrigation hydrants, City limits, Covina, Calif. 1919 March
    Photographer: F.W.S.
    Physical Description: 1 glass plate negative
    Scope and Content Note

Box 15:30  700-J-54 Lateral headgate, Modesto, Calif. undated
    Photographer:
    Physical Description: 1 glass plate negative
    Scope and Content Note

Box 15:31  700-J-55 Showing lateral headings as made at Niland, Calif. 1914 December
    Photographer: J.T.K.
    Physical Description: 1 glass plate negative
    Scope and Content Note

Box 15:32  700-J-57 Orland Project, U.S. Reclamation Service, Orland, Calif. 1914 November
    Photographer: J.T.K.
    Physical Description: 1 glass plate negative
    Scope and Content Note

Box 15:33  700-J-58 Gate for diverting water to lateral from main fed by pump. Water under
    pressure when pump is running. Gate must be manipulated when pressure is off. San
    Dimas, Calif. 1919 March
    Photographer: F.W.S.
    Physical Description: 1 glass plate negative
    Scope and Content Note

Box 16:1  700-J-59 Diversion Gate and Circular Measuring Crest Designed by A. Kempkey and in
    use on the Balfour-Guthrie Project at Brentwood. undated
    Photographer: Adams, Frank
    Physical Description: 1 glass plate negative
    Scope and Content Note
    About a ten foot weird crest is obtained by the use of this segment of corrugated iron
    pipe.
Box 16:2  700-J-60 Diversion Gate and Circular Measuring Crest Designed by A. Kempkey and in use on the Balfour-Guthrie Project at Brentwood. undated
   Photographer: Adams, Frank
   Physical Description: 2 glass plate negatives, 1 print
   Scope and Content Note
   About a ten foot weir crest is obtained by the use of this segment of corrugated iron pipe.

Box 16:3  700-J-61 Diversion Gate and Circular Measuring Crest Designed by A. Kempkey and in use on the Balfour-Guthrie Project at Brentwood. undated
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note
   About a ten foot weir crest is obtained by the use of this segment of corrugated iron pipe.

Box 16:4  700-J-62 This type of turnout gate and measuring weir designed by A. Kempkey for Balfour-Guthrie Project, but with weir crest length increased by rectangular offset in straight weir board instead of with segment of corrugated iron pipe. undated
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 16:5  700-J-63 Close up view of gauge for measuring depth on circular weir crest, Kempke turnout Gate Balfout-Guthrie project. undated
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 16:6  700-J-64 Larger type of turnout designed by A. Kempke for Balfour-Guthrie project with circular Weir Crest. undated
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 16:7  700-J-65 Lateral and turnout gates - Orland Project. About 1923 September
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

Box 16:8  700-J-100 Orland Project, U.S. Reclamation Service, Orland, Calif. 1914 November
   Photographer: J.T.K.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 16:9  700-J-101 Combination Gate, and delivery structure, Sacramento Valley Irrig. Co. Willows, Calif. 1912 June
   Photographer: F.C.S.
   Physical Description: 1 glass plate negative
   Scope and Content Note
Box 16:10 700-K-4 Pouring concrete for a Weir and Check, Orland Project, California. 1914
  Photographer: J.L.K.
  Physical Description: 1 glass plate negative, 1 print
  Scope and Content Note

Box 16:11 700-K-5 Newly constructed concrete check and weir on the Orland Project, California, showing concrete lining. 1914
  Photographer: J.L.K.
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 16:12 700-K-6 Newly made concrete weir and check, Orland Project, California. 1914
  Photographer: J.L.K.
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 16:13 700-K-7 Wooden check gate for use in alfalfa Fields. 1916 October 24
  Photographer: Hutchins, Wells A.
  Physical Description: 1 glass plate negative, 1 print
  Scope and Content Note
  This was designed and constructed at the University Farm by S.H. Beckett and his assistants.

Box 16:14 700-K-9 Typical wooden structure, Orland Project, California. 1914
  Photographer: J.L.K.
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 16:15 700-K-14 Checks, Modesto, Calif. undated
  Photographer:
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 16:16 700-L-a-29 One of the two stave-pipe pipe lines leading from pumping plant, Westside Irrigation District. 1918 May 2
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative, 3 prints
  Scope and Content Note
  Picture shows test apparatus attached to pipe.

Box 16:17 700-L-a-30 Double stave-pipe pipe line leading from State Highway west toward the coast range, Westside Irrigation District. 1918 May 2
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative, 3 prints
  Scope and Content Note
  These pipe lines are within one mile of the northerly end of the district along the highway and form the west edge of the district in its northwest corner.
<table>
<thead>
<tr>
<th>Box 16:18</th>
<th>700-L-b-16 Pouring Concrete in Construction of Siphon under Bottom of Sacramento River, Anderson-Cottonwood Irrigation District, California. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
</tr>
<tr>
<td>Physical Description:</td>
<td>1 glass plate negative</td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td>Similar to Picture No. 113 but looking towards the channel of the Sacramento River which is just beyond the portion of pipe line to be seen in the distance.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 16:19</th>
<th>700-L-b-17 Forms for a Concrete Siphon Under Clear Creek, Anderson-Cottonwood Irrigation District, California. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
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<tr>
<td>Physical Description:</td>
<td>2 glass plate negatives, 2 prints</td>
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<tr>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 16:20</th>
<th>700-L-b-25 Device Used for Placing Concrete Pipe, Orland Project, California. 1914</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td>J.L.K.</td>
</tr>
<tr>
<td>Physical Description:</td>
<td>1 glass plate negative, 1 print</td>
</tr>
<tr>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 16:21</th>
<th>700-L-b-29 Adjusting Reinforcement Rings, Main Concrete Discharge Pipe leading from Pumping Plant across the S.P. Railroad. Westside Irrigation District. 1918 May 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td>Adams, Frank</td>
</tr>
<tr>
<td>Physical Description:</td>
<td>1 glass plate negative, 3 prints</td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 16:22</th>
<th>700-L-b-30 One of the Discharge Pipes leading from pumping plant, Westside Irrigation District, under construction. 1918 May 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td>Adams, Frank</td>
</tr>
<tr>
<td>Physical Description:</td>
<td>1 glass plate negative, 3 prints</td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 16:23</th>
<th>700-L-b-31 Concrete Pipe Yard of Bent Vrothers at Henrietta. 1918 May 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td>Adams, Frank</td>
</tr>
<tr>
<td>Physical Description:</td>
<td>1 glass plate negative, 4 prints</td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td>This pipe is manufactured for the Boston Land Company, 50,000 feet of pipe being shown in the yard.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 16:24</th>
<th>700-L-b-32 Layout of Rings and Forms, Concrete pipe yard of Bent Brothers at Henrietta. 1918 May 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td>Adams, Frank</td>
</tr>
<tr>
<td>Physical Description:</td>
<td>1 glass plate negative, 1 print</td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td>This pipe is manufactured for the Boston Land Company.</td>
</tr>
</tbody>
</table>
Box 16:25
700-L-b-34 **Apparatus for covering steel pipe with concrete used by Temescal Water Company at Corona. 1919**  
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 glass plate negative, 4 prints  
Scope and Content Note  
Pipe is wrapped with a stiff reinforced steel mesh which is held away from the pipe by small truncated pyramids of concrete 1 1/2 inches high. Forms as show in the picture are then put around the pipe 1 1/2 inches from the screen and the concrete poured resulting in a reinforced concrete pipe three inches thick. The cost per foot for 30 inch pipe was about $2.30.

Box 16:26
700-L-b-40 **K.T. System of delivery- Covina, Calif. 1912 May**  
Photographer: F.C.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note  
Note the concrete stand pipe coming up from the head ditch. At the top is a set of small galv. tubes, some going into the orchard and one watering the plants within the small concrete curbing. The standpipe serves as a corner to the curbing. Mr. Thomason, President of the K-T Co. of Los Angeles, placing a repair in the gate of the standpipe.

Box 16:27
700-L-b-41 **Trench for concrete pipe line, Covina, Calif. 1912 May**  
Photographer: F.C.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note  
Showing trench opened for the pipe to serve the orchard at the right. A stand pipe will be erected at the head of each row of trees and small galvanized tubes deliver the water after being regulated by a K-T Valve in the stand pipe.

Box 17:1
700-L-b-42 **Main pipe line of Del Monte Irrigation Co. crossing a swale near Claremont Calif. Pipe is buried except at this point. undated**  
Photographer: Tait, C.E.  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 17:2
700-L-b-44 **Orland Project, U.S. Reclamation Service, Orland, Calif. 1914 November**  
Photographer: K  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 17:3
700-L-b-45 **Orland Project, U.S. Reclamation Service, Orland, Calif. 1914 November**  
Photographer: K  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 17:4
700-L-b-47 **Setting stands on concrete pipe for orchard irrigation near Pomona, Calif. Orchard and pumping plan of Wood Bros. undated**  
Photographer: Tait, C.E.  
Physical Description: 1 glass plate negative  
Scope and Content Note
<table>
<thead>
<tr>
<th>Box 17:5</th>
<th>700-L-b-48 Concrete pipe laying near Pomona, Calif. Schisler orchard and pumping plant. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 17:6</th>
<th>700-L-b-49 Testing pipe. Five joint apparatus. San Dimas, Calif. 1919 June</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: F.W.S.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td></td>
<td>Scope and Content Note</td>
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<thead>
<tr>
<th>Box 17:7</th>
<th>700-L-b-50 Breaking pipe for strength test. San Dimas, Calif. 1919 June</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: F.W.S.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 17:8</th>
<th>700-L-b-51 Brubake Bros. machine for making concrete pipe, San Dimas, Calif. 1919 July</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: F.W.S.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 17:9</th>
<th>700-L-b-65 Setting forms and pouring concrete for pipe line leading to syphon under Sacramento River. Anderson-Cottonwood Irrigation District. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Proposed syphon under river not built but water carried across on bridge.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 17:10</th>
<th>700-L-b-70 Newly set pressure gate - Delhi Experimental tract, 1921 in concrete pipe line 1921</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 1 print</td>
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<tr>
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<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 17:11</th>
<th>700-L-c-25 Irrigation Pipe Line Across Bear River above Auburn. 1918 June 14</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 4 prints</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This illustrates the effort that has been made and the cost incurred to get irrigation water to areas in the Sierra foothills. The land irrigated by this pipe line is north of Bear River, the source of water supply being one of the main ditches of the Pacific Gas and Electric Company.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 17:12</th>
<th>700-L-c-30 View of blow-off basin at lower end of pipe line from Upper Franklin Reservoir, Los Angeles water supply system, Los Angeles, Calif. 1914 December</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.T.K.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<td>Box</td>
<td>Description</td>
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<tr>
<td>-----</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>17:13</td>
<td><strong>700-L-c-31</strong> Wrapped and treated steel pipe used by Terra Bella Irrigation Dist. 1918</td>
</tr>
<tr>
<td>17:14</td>
<td><strong>700-L-d-1</strong> Pipe intake for orchard from flume. Covina, Calif. 1919 March</td>
</tr>
<tr>
<td>17:15</td>
<td><strong>700-L-d-2</strong> Relief stand made of 12 in. vit. clay pipe for hillside orchard lateral lines, Highlands, Calif. 1919 April</td>
</tr>
<tr>
<td>17:16</td>
<td><strong>700-L-d-3</strong> Diversion overflow stand. Two way diversion, 16 in. stand with 1/2 16 in. spillway inside. King City, Calif. 1919 April</td>
</tr>
<tr>
<td>17:17</td>
<td><strong>700-L-d-4</strong> Overflow relief stand-pipe and orchard diversion stand for steep grades. Olive, Calif. 1919 April</td>
</tr>
<tr>
<td>17:18</td>
<td><strong>700-L-d-5</strong> Concrete hydrant, Arlington Fruit Company's Ranch, Riverside, Calif. undated</td>
</tr>
<tr>
<td>17:19</td>
<td><strong>700-L-d-6</strong> Cement concrete pans connected with cement pipes, Riverside, Calif. 1903 December</td>
</tr>
<tr>
<td>17:20</td>
<td><strong>700-L-d-7</strong> Cement pipe distribution of water, Riverside, Calif. 1903 December</td>
</tr>
<tr>
<td>17:21</td>
<td><strong>700-L-d-8</strong> Concrete hydrant box and distributing flumes, Riverside, Calif. 1903 December</td>
</tr>
</tbody>
</table>
Box 17:22  700-L-d-9 Relief stand and diversion box with air vent. San Dimas, Calif. 1919 May
Photographer: F.W.S.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 17:23  700-L-d-10 Overflow relief stand pipe. San Fernando, Calif. 1919 June
Photographer: F.W.S.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 17:24  700-L-d-11 Overflow relief stand. 6 in. overflow inside of 12 in stand as shown. Control
gate in short stand at side. Santa Paula, Calif. 1919 April
Photographer: F.W.S.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 17:25  700-L-d-12 Relief stand and control gate at side in short stand pipe. Overflow type
with 6 in. overflow in 12 in. pipe. Santa Paula, Calif. 1919 April
Photographer: F.W.S.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 17:26  700-L-d-13 Relief stand at connection of pump to reinforced concrete pipe. Stand of
12 in. steel pipe 85 ft. high, held up by steel windmill tower. Saugus, Calif. 1919 June
Photographer: F.W.S.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 17:27  700-L-d-14 Relief stand from pump to concrete pipe. Whittier, Calif. 1919 March
Photographer: F.W.S.
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 17:28  700-L-d-15 Field gate on large monolithic pipe line. Turlock Irrigation District. This is a
double structure having similar gate on opposite side. 1929 August
Photographer: Christiansen, Jerald Emmet
Physical Description: 1 negative
Scope and Content Note

Box 17:29  700-L-d-16 Closed type of hydrant back of Ontario. 1918 May 19
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note

Box 17:30  700-L-d-17 Close view of closed type hydrant showing water emerging through
galvanized iron gates on the side. 1918 May 19
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note
<table>
<thead>
<tr>
<th>Box</th>
<th>Description</th>
</tr>
</thead>
</table>
| 17:31 | **700-L-d-18** Field gate on 36 inch pipe. 24 inch valve. 5 inch walls 1930 February  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| 18:1 | **700-L-d-19** Field gate and check gate on 36 inch continuous concrete pipe line, Turlock 1930 February  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| 18:2 | **700-L-d-20** Field gate and air vent on 36 inch continuous pipe line. Turlock 1930 February  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| 18:3 | **700-L-d-21** Field gates on 36 inch continuous concrete pipe. Farm of Mr. Baldwin 1 1/2 miles S.W. of Hughson 1930 February  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| 18:4 | **700-L-d-22** Box for admitting drainage water into pipe line. Continuous 36 inch concrete pipe. Farm of Mr. Jas. F. Fritts, Hughson 1930 February  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| 18:5 | **700-L-d-23** Field gate on 30 inch Monolithic concrete pipe line. Turlock 1930 February  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| 18:6 | **700-L-d-24** Field gate on 30 inch continuous pipe, 3 miles south of Hughson 1930 February  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| 18:7 | **700-L-d-25** Double opening field gate on 24 inch continuous pipe line. 14 inch valve. Turlock 1930 February  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| 18:8 | **700-L-d-26** Valve and four way turnout structure on 30” pipe line. Ranch in Modesto Irrig. Dist. Structures were built by Irrigation District on contract for $12 each, exclusive of valve. 1930 January  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
Box 18:9 700-L-d-27 Construction of field gate on monolithic pipe line. Turlock Irrigation District. 1931 March
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 18:10 700-L-d-28 Field gate on monolithic pipe line, 14-inch valve. Turlock Irrigation District. 1931 March
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 18:11 700-L-d-29 Concrete pipe system, walnut orchard, Santa Clara Valley 1916 August
   Photographer: Robertson, Ralph
   Physical Description: 1 negative
   Scope and Content Note

Box 18:12 700-L-d-30 Concrete pipe system, walnut orchard, Santa Clara Valley 1916 August
   Photographer: Robertson, Ralph
   Physical Description: 1 negative
   Scope and Content Note

Box 18:13 700-L-d-31 Overflow pipe system in used on the Mills Orchard at Maxwell. 1916
   Photographer:
   Physical Description: 1 negative
   Scope and Content Note

Box 18:14 700-L-d-32 Stand pipe concrete pipe line. Santa Clara Valley. 1934 May
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives
   Scope and Content Note

Box 18:15 700-L-d-33 Standpipe on concrete pipe line. Ruscigno Ranch, Santa Clara Valley. This design permits opening to be used as man-hole when riser is removed. 1934 May
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives, 1 print
   Scope and Content Note

Box 18:16 700-L-d-34 Row of irrigation stand pipes supplying furrow irrigation along Magnolia Drive, near Arlington 1932
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 18:17 700-L-d-35 Sealed stand pipe with concrete divisors in Orange orchard near East Highlands, Calif. 1932
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note
<table>
<thead>
<tr>
<th>Box 18:18</th>
<th>700-L-d-36</th>
<th>Closed irrigation stand pipe, southern California. 1932</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
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<td></td>
<td>Scope and Content Note</td>
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</tr>
</tbody>
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<thead>
<tr>
<th>Box 18:19</th>
<th>700-L-d-37</th>
<th>Automatic Standpipe in the Foothill Grove of the Arlington Heights Fruit Company, Back of Riverside, California. 1914</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
<td></td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<td></td>
<td>The flow of water into the standpipe is regulated by an iron gate, of which the stem is seen to extend above the top of the standpipe. The crest leading from the main standpipe into a smaller water pipe holds the head above the outlets approximately stable.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 18:20</th>
<th>700-L-d-38</th>
<th>Settling basin and screens. Connections of orchard pipe with open ditch carrying sand and trash. Orange. 1919 March</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: F.W.S.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: envelope only, no print</td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 18:21</th>
<th>700-L-d-39</th>
<th>Irrigating citrus with galvanized iron distributors, near Santa Ana. 1932 May</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
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<tr>
<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

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<thead>
<tr>
<th>Box 18:22</th>
<th>700-L-d-40</th>
<th>Overflow distributing hydrants built by the Soil Conservation Service, Placerville. 4&quot; sheet metal gate allows water to pass straight through when structure is not in use. See picture, 700-L-d-41 for detail. 9/23/38 1938 September 23</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
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</table>

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<thead>
<tr>
<th>Box 18:23</th>
<th>700-L-d-41</th>
<th>Detail of overflow distributing hydrant. Large pipe, 16&quot;, part overflow pipe, 8&quot; and downstream vent is 6&quot;. Vent releases entrapped air and prevents downstream hydrant from spouting. See Soil Conservation drawing, LP 701, J.E.C.'s file. 1938 September 23</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
<td></td>
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<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

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<tr>
<th>Box 18:24</th>
<th>700-L-d-42</th>
<th>King City overflow. 12&quot; pipe stand, has 6&quot; pipe riser inside Galvanized gate installed in low stand 24&quot; pipe. Constructed by Soil Conservation Service, Placerville. See Soil Conservation Service drawing LP 3, J.E.C.'s file. 1938 September 23</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
<td></td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>
700-L-d-43 Brown distributor concrete line installed by Soil Conservation Service, Placerville. Each distributor consists of 2" x 10' light weight galvanized tubing with 4 distributing gates connected to 1 1/2" tee valve. Two flexible ells on each arm permit distributing arm to be placed in any position. See picture 700-L-d-44 for detail. 1938 September 23
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 1 negative
  Scope and Content Note

700-L-d-44 Detail of Brown distributor installed on pipe line built by Soil Conservation Service, Placerville. See picture 700-L-d-43. 1938 September 23
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 1 negative
  Scope and Content Note

700-L-d-45 Distributing water in furrows from oval distributing hydrants. Orange grove, Ventura county. Gould Denison, owner. 1939 May
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 2 negatives
  Scope and Content Note

700-L-d-46 Capped distributing hydrant concrete pipe line near Riverside. 1939 June
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 1 negative
  Scope and Content Note

700-L-d-47a700-L-d-47b Distributor pipe connected to angle valve with short piece of hose. Near Orange, California. 1941 June 24
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 2 negatives
  Scope and Content Note

700-L-d-47c Short length of distributor pipe attached to concrete stand with two outlets. Near Orange, California. 1941 June 24
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 1 negative
  Scope and Content Note

700-L-d-48a700-L-d-48b King furrow valve with street ells for slip on metal distributor pipes. King Wheel Co. Orange, California. (b) ing furrow valve, showing how it is installed on concrete pipe riser. Made by King Wheel Company. 1941 June 24
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 2 negatives
  Scope and Content Note

700-L-d-48c700-L-d-48d700-L-d-48e (c) King Furrow Valve with distributor pipes. Made by King Wheel Company, Orange, California. (d-e) King valve with slip-on sheet metal distributing pipes for furrow irrigation. Valve made by King Wheel Company. Orange California. 1941 June 24
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 4 negatives
  Scope and Content Note
Box 18:33 700-L-d-49 King Constant Head Valve. Made by King Wheel Company, Orange, Calif. 1941 June 24
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 18:34 700-L-d-50a700-L-d-50b King valve with distributor pipes. Side hill installation, near Orange. 1941 June 24
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives
   Scope and Content Note

Box 18:35 700-L-d-51 Cut-away stand showing how gates are installed in open stands. National Cement Pipe Company, Santa Ana. 1941 June 24
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives
   Scope and Content Note

Box 18:37 700-L-d-52c700-L-d-52d Sample of furrow distributor valve made by Snow Mfg. Co. Demonstration unit, National Cement Pipe Company, Santa Ana (d) Miniature irrigation system to demonstrate various pipe structures and equipment. National Cement Pipe Co., Santa Ana 1941 June 24
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives
   Scope and Content Note

Box 18:38 700-L-d-53 Repairs to concrete control box at Well No. 9. 1947 April 3
   Photographer: JBB
   Physical Description: 1 negative
   Scope and Content Note

Box 15:39 700-L-d-54 Reinforced plate for cover of control box - Well No. 9. 1947 April 03
   Photographer: JBB
   Physical Description: 1 negative
   Scope and Content Note

Box 18:40 700-L-d-55 Distributing head for alfalfa valve. Farm south of Davis, Calif. 1950 August
   Photographer: Marr, J.C.
   Physical Description: 1 negative
   Scope and Content Note
<p>| Box 18:41 | 700-L-d-56 Pressure loss study on an 8” concrete riser and alfalfa valve. Hyd. Lab. 1949 April 3 |
| Box 18:42 | 700-L-d-57 Pressure loss study on an 8” concrete riser and alfalfa valve. Hyd. Lab. 1949 April 3 |
| Box 18:43 | 700-L-f-4 Experimental concrete pipe line for testing expansion and contraction University Farm, Davis, Calif. 1928 |
| Box 18:44 | 700-L-f-5 Experimental concrete pipe line for testing expansion and contraction, University Farm, Davis, Calif. 1928 |
| Box 18:45 | 700-L-f-6 Concrete pipe for testing expansion and contraction, University Farm, Davis, Calif. 1928 |
| Box 19:1 | 700-M-a-1 Concrete Rating Flume, Settlers Canal, Settlers Irrigation District, Idaho. 1916 December 25 |
| Box 19:2 | 700-M-a-2 Measuring Flume Installed by U.S. Irrigation Investigations on field of D. B. Guile, near Woodland, Cal., in April, 1914 1914 August 23 |
| Box 19:3 | 700-M-a-2-a Rating Flume, Upper Canal, River Garden Farms Co. near Knights Landing, California Rice Duty of Water Investigations in Sacramento Valley, 1917. 1917 May 2 |
| --- | --- | --- |
| | Photographer: Hutchins, Wells A. | |
| | Physical Description: 1 negative | |</p>
<table>
<thead>
<tr>
<th>Box 19:5</th>
<th>700-M-a-4</th>
<th>Rating Flume, Stanford Tract near Chico, California. Rice Duty of Water Investigations in Sacramento Valley, 1917. 1917 April 25</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
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<tr>
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<td>Physical Description: 1 negative</td>
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<tr>
<td>Box 19:6</td>
<td>700-M-a-5</td>
<td>Rating Flume, Baker Field, Rice Duty of Water Investigations Sacramento Valley, California, 1917. 1917 August 8</td>
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<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
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<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
<td>In 1916 this was used as a weir box but owing to the amount of water carried in the ditch in 1917, it was impossible to place a weir in this position.</td>
</tr>
<tr>
<td>Box 19:7</td>
<td>700-M-a-6</td>
<td>Venturi Flume Moulton Tract, Rice Duty of Water Investigations, Sacramento Valley, California. 1917 August 9</td>
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<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
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<td>Physical Description: 1 negative</td>
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<tr>
<td>Box 19:8</td>
<td>700-M-a-7</td>
<td>Improved Venturi flume, width 1 foot. University Farm, Davis 1929 October</td>
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<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Physical Description: 1 negative</td>
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<tr>
<td>Box 19:9</td>
<td>700-M-a-9</td>
<td>Ten foot Parshall measuring flume at head of Reedley main ditch. This structure cost $545.14. Alta Irrigation District 1930 January</td>
</tr>
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<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
<td>Slide no. 734</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td>Box 19:10</td>
<td>700-M-a-12</td>
<td>Four foot Parshall measuring flume, Alta Irrigation District 1930 January</td>
</tr>
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<td>Photographer: Christiansen, Jerald Emmet</td>
<td>Slide no. 735</td>
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<td>Physical Description: 1 negative, 2 prints</td>
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<tr>
<td>Box 19:11</td>
<td>700-M-a-14</td>
<td>Improved Venturi Flume. W--1’0”. Out-of-doors hydraulic laboratory at University Farm, Davis. 1929 June</td>
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<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Physical Description: 1 negative</td>
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</tbody>
</table>
| Box 19:12 | 700-M-a-15 **Drawing of Parhsall Measuring Flume 1932**  
Photographer: Huberty, Martin R.  
Physical Description: 1 negative  
Scope and Content Note |
| --- | --- |
| Box 19:13 | 700-M-a-16 **Rating flume used to measure water with current meter on alfalfa plots. Imperial Valley. 1914**  
Photographer: F.W.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 19:14 | 700-M-a-17 **Rating flume, Whitlock Ranch, Imperial Valley, alfalfa investigation, 1915. 1917**  
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 19:15 | 700-M-a-26 **San Dimas flume for measuring runoff. San Dimas Forest and Range Experiment Station. 1939 May**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| Box 19:16 | 700-M-b-49 **Weir on Rice Experimental Tract, Biggs, Cal. 1915 May 1**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
This is used to measure the water on the plat devoted to cooperative rice irrigation experimentation at the Bureau of Plant Industry Rice Station. This shows Mr. Ralph D. Robertson and Mr. E. L. Adams, measuring the water. |
| Box 19:17 | 700-M-b-50 **Weir and Register, Experimental Tract, Willows, Cal. 1915 June 5**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
A Leitz water register was installed to record the flow over this weir in supplying the water to the Experimental Tract of the Sacramento Valley Irrigation Co., on which alfalfa duty of water experiments were conducted by this office in 1915. This shows a part of the Sacramento Valley investigation of the economic duty of water for alfalfa. |
| Box 19:18 | 700-M-b-51 **Rectangular Weir and Water Register, Sacramento Valley Irrigation Experimental Tract, Willows, Cal. 1915 August 17**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
The head water delivered over this weir was about 3-1/2 second feet. The water was taken directly from the Barceloux lateral in the back. |
Box 19:19  700-M-b-52 Weir, Experimental Alfalfa Tract, Willows, Cal. 1916 May 11
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note
This shows the installation of the 3-foot rectangular weir in the headgate of the field lateral, before any water had been turned in, and before the water register was installed. The diagonal brace back of the weir was rarely over it, in order not to cause an eddy effect. Water was measured over this weir to the Sacramento Valley Irrigation Experimental Tract, during the alfalfa duty of water investigations.

Box 19:20  700-M-b-53 Measuring Water on the Orland Project, California. undated
Photographer: J.T.K.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 19:21  700-M-b-54 Measuring Water on the Orland Project, in the 1914 Field Experiments, California. undated
Photographer: J.T.K.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 19:22  700-M-b-55 Two-foot Standard Contracted Rectangular Weir and Automatic Water Register, used for Measuring Water on Adams Field, Biggs, California. undated
Photographer: Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 19:23  700-M-b-56 Rectangular Weir and Water Register, Sacramento Valley Irrigation Experimental Tract, Willows, Cal. 1915 July 17
Photographer: Hutchins, Wells A.
Physical Description: 1 negative, 1 print
Scope and Content Note

Box 19:24  700-M-b-57 Baker Weir, Biggs, California. 1916 July
Photographer: Robertson, Ralph D.
Physical Description: 1 negative, 1 print
Scope and Content Note

Box 19:25  700-M-b-58 Weir and Register on Scheeline Tract, Willows, California. 1916
Photographer: Robertson, Ralph D.
Physical Description: 1 negative, 1 print
Scope and Content Note

Box 19:26  700-M-b-59 Weir and Water Register on Schell and Woodruff Field, Marysville, California. 1916
Photographer: Robertson, Ralph D.
Physical Description: 1 negative, 1 print
Scope and Content Note
<table>
<thead>
<tr>
<th>Box 19:27</th>
<th>700-M-b-60 Weir and Water Register on Garland Rice Field Willows, California. 1916 September</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 19:28</td>
<td>700-M-b-61 Weir and Register, Willows, California. Edwards Tract. 1916</td>
</tr>
<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 19:29</td>
<td>700-M-b-62 Weir on Quatman Tract, Willows, California. 1916</td>
</tr>
<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 19:30</td>
<td>700-M-b-63 Concrete Drop and Weir, Orland, California. 1916 October</td>
</tr>
<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 19:31</td>
<td>700-M-b-64 Weir and Water Register on McDermitt Rice Field, Maxwell, California. 1916 September</td>
</tr>
<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 19:32</td>
<td>700-M-b-65 Weir and register, Spalding Ranch, Willows, Cal. 1916</td>
</tr>
<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
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<tr>
<td>Box 19:33</td>
<td>700-M-b-66 Weir and Register, Willows, California. 1916</td>
</tr>
<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 19:34</td>
<td>700-M-b-67 Main Header Box, Field Laboratory Measuring Device, Davis, California. undated</td>
</tr>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 4 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 19:35</td>
<td>700-M-b-68 Weir and register, Adams field, Biggs. Four foot crest. undated</td>
</tr>
<tr>
<td></td>
<td>Photographer:</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 3 negatives</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 19:36</td>
<td>700-M-b-69 V Notch Measuring water to Pasture and Sudan grass, C. Schwartz Field. Pleasant Valley, Nevada County 1917 August</td>
</tr>
<tr>
<td>-----------</td>
<td>---------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Since this picture was taken the pool above the weir has been enlarged in order to reduce the velocity of approach.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 19:37</th>
<th>700-M-b-70 V Notch and Water Register, Duty of Water Investigations, Yuba- Nevada Co. 1917 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 19:38</th>
<th>700-M-b-71 V Notch and Water Register used in Duty of Water Investigations, Garfield Robson Farm Penn Valley, Nevada County. 1917 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 19:39</th>
<th>700-M-b-72 Cipolletti Weir and Register, Casey Farm, Yuba-Nevada Counties Duty of Water Investigations. 1917 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 19:40</th>
<th>700-M-b-73 Rectangular Weir and Water Register 1917 July</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

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<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Box 20:1</th>
<th>700-M-b-75 Weir and Gurley Water Register, Harlan Field Near Madison, California. Rice Duty of Water Investigations in Sacramento Valley, 1917. 1917 May 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 20:2</th>
<th>700-M-b-76 Weir Cadanassa Field near Madison, California. Rice Duty of Water Investigations in Sacramento Valley, 1917. 1916 May 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>
Box 20:3 700-M-b-77 Measuring Water to Peach Orchard, C. Schwartz Farm, Pleasant Valley, Nevada County, 1917. 1917 August

Photographer: Adams, Frank
Physical Description: 1 glass plate negative
Scope and Content Note

Box 20:4 700-M-b-78 Notch and Water Register Measuring Water to O’Brion Pasture, Smartsville, Yuba County, 1917. 1917 August

Photographer: Adams, Frank
Physical Description: 1 glass plate negative
Scope and Content Note
On the left is shown the usual type of measuring box under the Excelsior Water and Mining Company system. This was replaced by our field engineer with the suppressed weir shown near the center directly above the V notch and register box.

Box 20:5 700-M-b-79 Lower Waste Weir, Robson Field near Smartsville, California. Duty of Water Investigations, Yuba-Nevada Counties Season 1917 May 17

Photographer: Hutchins, Wells A.
Physical Description: 1 negative
Scope and Content Note


Photographer: Hutchins, Wells A.
Physical Description: 1 negative
Scope and Content Note
On the left is shown the discharge box through which water is measured by the Excelsior Water and Mining Company.

Box 20:7 700-M-b-81 Typical Weir Box used by Excelsior Water and Mining Company in Yuba-Nevada Counties, California. Duty of Water Investigations, Yuba-Nevada Counties Season 1917 May 18

Photographer: Hutchins, Wells A.
Physical Description: 1 negative
Scope and Content Note

Box 20:8 700-M-b-82 Weird, Krinkle and Ellis Field near Esparto, Cal. Rice Duty of Water Investigations in Sacramento Valley 1917 May 1

Photographer: Hutchins, Wells A.
Physical Description: 1 negative
Scope and Content Note

Box 20:9 700-M-b-83 Measuring Water Over Flash Boards to the Spaulding Rice Field near Norman, California 1917 July

Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note
This picture shows Irving Martin, left, and W. A. Johnstone, center, of the State Water Commission, and C. L. Kaupke, right, field engineer, Rice Duty of Water Investigations, West Side, Sacramento Valley. July, 1917.
Box 20:10  700-M-b-85 Suppressed Weir and Water Register Box Adams No. 2 Field, Rice Duty of Water Investigations in Sacramento Valley. 1917. 1917 August 8
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative
  Scope and Content Note

Box 20:11  700-M-b-86 Rectangular weir and Water Register, Dodge Tract, Rice Duty of Water Investigations in Sacramento Valley, 1917. 1917 August 10
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative
  Scope and Content Note

Box 20:12  700-M-b-87 Weir and water register on Garland rice field, Willows. 1916
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative
  Scope and Content Note

Box 20:13  700-M-b-88 Weir and Water Register, Crouch Field near Chico, California. Rice Duty of Water Investigations in Sacramento Valley, 1917. 1917 April 27
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative
  Scope and Content Note
  It was found necessary to abandon this weir owing to the high velocity of the water as it emerged from the main canal. A weir was subsequently installed in the ditch farther down.

  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative
  Scope and Content Note

  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative
  Scope and Content Note

Box 20:16  700-M-b-91 Distributing hydrant, weir and flume on the San Diego coastal plain back of Carlsbad. 1917 November
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative, 1 print
  Scope and Content Note
  Water is supplied by the South Coastal Land and Water Company from wells in the San Luis Rey bottom lands southeast of Oceanside.

Box 20:17  700-M-b-92 Show Measuring Device on the grounds of the Edison Land and Water Company. 1917 November
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative
  Scope and Content Note
  In general this is the type of box made of concrete used throughout the Edison system.
<table>
<thead>
<tr>
<th>Box</th>
<th>Inventory</th>
</tr>
</thead>
</table>
| 20:18 | **700-M-b-96** Measuring weir in Imperial Valley, Duty of water Studies, 1917, mucking the weir box. 1917  
   Photographer: Veihmeyer, Frank J.  
   Physical Description: 1 negative  
   Scope and Content Note |
| 20:19 | **700-M-b-100** Main weir head gates. Whittier Water Co, San Gabriel River at El Monte. 1919 March  
   Photographer: F.W.S.  
   Physical Description: 1 glass plate negative  
   Scope and Content Note |
| 20:20 | **700-M-b-101** Cippoletti weir and register, Smith ranch. Duty of water measurements Imperial Valley, Calif. 1914  
   Photographer: Tait, C.E.  
   Physical Description: 1 negative, 1 print  
   Scope and Content Note |
| 20:21 | **700-M-b-102** Pipe weir. Whittier, Calif. 1919 March  
   Photographer: F.W.S.  
   Physical Description: 1 glass plate negative  
   Scope and Content Note |
| 20:22 | **700-M-b-103** Forms for making weir box used by the Gage Canal Co., Riverside, Calif. undated  
   Photographer:  
   Physical Description: 1 glass plate negative  
   Scope and Content Note |
| 20:23 | **700-M-b-104** Wier box with adjustable gage. Yorba Linda, Calif. 1919 April  
   Photographer: F.W.S.  
   Physical Description: 1 glass plate negative  
   Scope and Content Note |
| 20:24 | **700-M-b-105** Water measurement at Greebs pumping plant with portable steel weir, near Pomona, Calif. Plant for alfalfa irrigation. Stand pipe undated  
   Photographer: Tait, C.E.  
   Physical Description: 1 glass plate negative  
   Scope and Content Note |
| 20:25 | **700-M-b-107** A rectangular weir and concrete measuring box. undated  
   Photographer:  
   Physical Description: 1 negative, 1 print  
   Scope and Content Note |
| 20:26 | **700-M-b-108** A typical concrete outlet gate and concrete V notch measuring weir on Camino Ridge above Placerville. 1925 June  
   Photographer: Adams, Frank  
   Physical Description: 2 negatives, 3 prints  
   Scope and Content Note |
Box 20:27 700-M-b-109 4-ft. rectangular weir used for measuring inflow to Medford Island 1924 June
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note

Box 20:28 700-M-b-110 4-ft. rectangular weir used for measuring inflow to Medf. Is. 1924 June
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 2 prints  
Scope and Content Note

Box 20:29 700-M-b-111 (2 negatives) Experimental weir in header box. Field Irrigation measuring device laboratory, Davis. 1927 November
Photographer: Adams, Frank  
Physical Description: 2 negatives, 2 prints  
Scope and Content Note

Box 20:30 700-M-b-112 Header box, field experimental measuring device laboratory, Davis, showing rectangular weir and V notch. 1927 November
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 20:31 700-M-b-113 Measurement of water. V notch weir and water register. Irrigation tract, 1912. 1912
Photographer: Beckett, Samuel H.  
Physical Description: 1 negative  
Scope and Content Note

Box 20:32 700-M-b-114 Measurement of water on plots at Whittier, July 15, 1929. Loss of water studies. 1921 July 15
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 negative, 2 prints  
Scope and Content Note

Box 20:33 700-M-b-115 Irrigation of apricots. Portable steel weir for measuring. Mt. View. 1922
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 negative, 2 prints  
Scope and Content Note

Box 20:34 700-M-b-116 Water register and V notch weir on Taylor Farm - Sacramento Duty of Water Investigations 1925 June
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 20:35 700-M-b-117 V-notch weir and water register - Taylor orchard near Loomis undated
Photographer:  
Physical Description: 1 negative, 1 print  
Scope and Content Note
Box 20:36  700-M-b-118  Concrete Cipollette weir on central canal. Fresno Irrigation District. Note submergence, Weir partially submerged. 1929 May 8
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 20:37  700-M-b-119  Twenty foot rectangular weir below automatic headgate to laterals. West Stanislaus Irrigation District. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 20:38  700-M-b-120  Automatic gate at head of laterals. Stilling basin and 20’ rectangular weir standard equipment. Weirs equipped with automatic recorders installed in concrete house. West Stanislaus Irrigation District 1929 August
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 21:1  700-M-b-121  Measuring water over 4.04’ suppressed weir or calibration on station. Tests made on 24” Calco gate on corrugated culvert pipe. Mr. H. M. Tucker measuring and Mr. Hanson, Calco Engineer, standing. Fresno Irrig. Dist. 1929 May 23
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 21:2  700-M-b-122  Weir constructed on bridge near pumping plant, Sutter Mutual Water Company, Robbins, California. Weir constructed to test pumps. 1930 November
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 21:3  700-M-b-123  Same as 700-M-b-122. This view shows water nearing crest. 1930 November
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 21:4  700-M-b-124  Same as 700-M-b-122 and 700-M-b-123. This view shows water flowing over crest. 1930 November
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 21:5  700-M-b-125  Measuring water in field ditch over 2 foot portable rectangular weir. Portable hook gage used for measuring head near Davis. 1937 June 25
   Photographer: Givan, C.V.
   Physical Description: 3 negatives, 2 prints
   Scope and Content Note
| Box 21:6 | 700-M-b-126 Measuring water over 2-foot rectangular weir, W. O. Robie place, west of Davis. 3 views 1931 August |
| Box 21:7 | 700-M-b-127 Measuring water over 2-foot rectangular weir, Boyd Place, West of Winters. 1931 August |
| Box 21:8 | 700-M-b-128 Measuring water over 2-foot rectangular weir, Mrs. McCune place, near Winters. 2 views 1931 August |
| Box 21:9 | 700-M-b-129 Measuring water over 2 foot rectangular weir at Robert Collier place, Dixon. 1931 August |
| Box 21:10 | 700-M-b-130 Measuring water over 2 foot rectangular weir. 1931 August |
| Box 21:11 | 700-M-b-131 Measuring water over 2-foot rectangular weir. Straloch Farm, west of Davis. 1931 August |
| Box 21:12 | 700-M-b-132 Measuring water over 2 foot rectangular weir at Donnenwirth Place. Davis 1931 August |
| Box 21:13 | 700-M-b-134 Measuring water from pumping plant over 2 foot rectangular weir. G. K. Swingle ranch, Davis. 1931 August |
| Box 21:14 | 700-M-b-135 Measuring water over 2 foot rectangular weir, at Pierce ranch. Davis 1931 August |
Box 21:15 700-M-b-136 **Measuring water over 2-foot rectangular weir at Dixwell Pierce ranch, Davis** 1931 August  
Photographer: Givan, C.V.  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 21:16 700-M-b-137 **Measuring water over 2-foot rectangular weir at Boyce ranch. Winters** 1931 August  
Photographer: Givan, C.V.  
Physical Description: 1 negative  
Scope and Content Note

Box 21:17 700-M-b-138 **Measuring water over 2-foot rectangular weir, Putah Creek investigation** 1931 August  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note

Box 21:18 700-M-b-139 **Rectangular weir, width 12 inches, in concrete weir box. Outdoor Hydraulic Laboratory, Davis, Calif.** 1932 April  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note

Box 21:19 700-M-b-140 **Suppressed weir (Type B) used to measure rate of flow, showing location of hook gage and lath baffle downstream from weir. Stanford University, Hydraulic Laboratory** 1932 March  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 2 negatives, 2 prints  
Scope and Content Note

Box 21:20 700-M-b-141 **Upstream face of type J weir used in making tests of Clausen- Pierce weir gage, Stanford University Hydraulic Laboratory.** 1932 March  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 2 negatives, 1 print  
Scope and Content Note

Box 21:21 700-M-b-142 **Model of V-notch weir, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932 1932 April 18**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note

Box 21:22 700-M-b-143 **Model of Cipolletti weir, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932. 1932 April 18**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note
Box 21:23  700-M-b-144 Model of rectangular contracted weir, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932 1932 April 18
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 21:24  700-M-b-146 Measuring flow of pumping plants by means of portable metal weir. Santa Clara Valley Pumping investigation by C.V. Givan 1934 May
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives
   Scope and Content Note

   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives, 1 print
   Scope and Content Note

   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives, 1 print
   Scope and Content Note

Box 21:27  700-M-b-149 Cleaning silt. Mucking. 1917
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 negative
   Scope and Content Note

   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 prints
   Scope and Content Note

Box 21:29  700-M-b-152 Measurement of water from pumps in Santa Clara Valley, C V. Givan's project. 1934 May
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 21:30  700-M-c-14 Division Box, Big Rock Creek Irrigation District, Cal. 1915 June 30
   Photographer: Hutchins, Wells A.
   Physical Description: 1 negative, 1 print
   Scope and Content Note
   This is on the east main ditch.
| Box 21:31 | 700-M-c-15 Division Box on Main Canal, Cascade Irrigation District, Washington. 1916 November 18 |
| Box 21:32 | 700-M-c-16 Delivery Box with "V" Notched Weir, Cascade Irrigation District, in Kittitas Valley, Washington. 1916 November 18 |
| Box 21:33 | 700-M-c-17 Division Box, Hood River Irrigation District, Oregon. 1916 November 10 |
| Box 21:34 | 700-M-c-18 Discharge Sand and Measuring Box for well No. 3, Boston Land Company near Huron. 1918 May 6 |
| Box 21:35 | 700-M-c-20 Wier box for equal division. Arcadia, Calif. 1919 March |
| Box 21:36 | 700-M-c-21 Box for dividing equal amounts of water and overflow. Azusa, Calif. 1919 March |
| Box 21:37 | 700-M-c-22 Lateral diversion from concrete ditch. Note overflow and waste pipe returning to ditch below check gate. Covina, Calif. 1919 May |
Box 21:38  700-M-c-23 Three way diversion box. This type placed on each orchard and delivers required amount to three irrigators. Not supposed to measure accurately but divides fairly. Covina, Calif. 1919 March
   Photographer: F.W.S.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 21:39  700-M-c-24 Diversion box for dividing irrigation water. Highlands, Calif. 1919 April
   Photographer: F.W.S.
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 21:40  700-M-c-25 Diversion box attached to underground pipe feeding water to orchard flume. Gate set by zanjero and top locked to prevent tampering. Highlands, Calif. 1919 March
   Photographer: F.W.S.
   Physical Description: 1 glass plate negative (broken)
   Scope and Content Note

Box 22:1  700-M-c-26 Weir box showing locked top leading to gate in main. Pomona, Calif. 1919 March
   Photographer: F.W.S.
   Physical Description: 1 glass plate negative
   Scope and Content Note
   Also overflow pipe against baffle wall. Water flows under baffle wall over weir. Slatted box at far end is settling basin and gates for orchard laterals.

Box 22:2  700-M-c-27 Diversion box distributing water from main to two laterals. Pomona, Calif. 1919 April
   Photographer: F.W.S.
   Physical Description: 1 glass plate negative
   Scope and Content Note
   Orchard laterals shown above ground. Main gate underground on level with main. Note laterals at same elevation so equal amounts of water can be distributed. Also note ventpipes of 1/2 in. pipe for air vents

Box 22:3  700-M-c-28 Diversion box utilizing pipe thruout. Pomona, Calif. 1919 April
   Photographer: F.W.S.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 22:4  700-M-c-29 Equal diversion box made of one 36 and two halves of 16 in. pipes. Note slotted one inch boards for gates, San Dimas, Calif. 1919 April
   Photographer: F.W.S.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 22:5  700-M-c-30 Pipe weir and diversion box. San Dimas, Calif. 1919 April
   Photographer: F.W.S.
   Physical Description: 1 glass plate negative
   Scope and Content Note
Box 22:6  700-M-c-32 Pipe weir with control valve on outside. Connection of steel pressure line to concrete pipe lateral. San Fernando, Calif. 1919 June
   Photographer: F.W.S.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 22:7  700-M-c-33 Diversion from main. Main covered concrete ditch arched over. Lateral box on lower level covered. Lift gate controls amount of water delivered to M. I. box in lateral box. Wheel controls check in main ditch 1919 March
   Photographer: F.W.S.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 22:8  700-M-c-34 Main distributing box with overflow crest. North Whittier Heights, Calif. 1919 July
   Photographer: F.W.S.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 22:9  700-M-c-35 Main diversion box, Covina Water Co., Covina, Calif. 1919 March
   Photographer: F.W.S.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 22:10 700-M-c-38 Standard delivery box S.A.V.I. Co. Santa Ana, Calif. 1919 March
   Photographer: F.W.S.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 22:10  700-M-c-39 Concrete measuring box, Southern California. undated
   Photographer: 
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 22:12 700-M-c-40 Concrete Stand Pipe and Measuring Box, Salinas Land Company Near Kings City. 1919 July
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 22:13 700-M-c-41 Measuring Box and Stand Pipe, Contour Irrigation, Arlington Heights, Riverside County. 1920 May
   Photographer: Adams, Frank
   Physical Description: 1 negative, 1 print
   Scope and Content Note
   A portion of Mockingbird Canyon Reservoir of Gage Canal Company on extreme left.

Box 22:14 700-M-c-42 (No neg.) Sheet metal division and measuring box somewhat similar to Azusa miners-inch box. (For other views see negative envelope) 1922 July
   Photographer: Vehmeyer, Frank J.
   Physical Description: 2 prints
   Scope and Content Note
<table>
<thead>
<tr>
<th>Box 22:15</th>
<th>700-M-d-1 Concrete miners inch box. Main box on main pipe line. Fullerton, Calif. 1919 July</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: F.W.S.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 22:16</th>
<th>700-M-d-2 Miners inch box with screened lateral box. Placentia, Calif. 1919 April</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Photographer: F.W.S.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 1 print</td>
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<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 22:17</th>
<th>700-M-d-3 Santa Ana Valley Irrig. Co. M. I. device. Santa Ana, Calif. 1919 May</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Photographer: F.W.S.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 22:18</th>
<th>700-M-d-5 Concrete Miners' Inch Box on Camino Ridge, El Dorado County. 1919 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 2 prints</td>
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<td>Scope and Content Note</td>
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<table>
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<tr>
<th>Box 22:19</th>
<th>700-M-d-6 Untitled undated</th>
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<tr>
<td></td>
<td>Photographer:</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 22:20</th>
<th>700-M-d-7 Adjustable measuring plate in turnout from Santa Ana Valley Irrig. Co. main canal. Santa Ana, Calif. 1931 April</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 22:21</th>
<th>700-M-d-8 Miner's inch plate on delivery from lined canal. Anaheim Union Water Co. Near Yorba Linda, Calif. 1931 April</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 22:22</th>
<th>700-M-d-9 Asuza measuring box - outdoor irrigation measuring device laboratory, Davis undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 glass plate negatives</td>
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<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 22:23</th>
<th>700-M-d-10 Measuring Box, Anaheim Union Water Co., California. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>
Box 22:24  700-M-d-11 Three-way Azusa Hydrant, Covina, Calif. 1919 February
    Photographer: F.W.S.
    Physical Description: 1 glass plate negative
    Scope and Content Note

Box 22:25  700-M-d-12 Riverside Water Company measuring box - outdoor irrigation laboratory - University Farm, Davis. undated
    Photographer:
    Physical Description: 1 glass plate negative
    Scope and Content Note

Box 22:26  700-M-d-13 Snow miner's inch plate and hook gage installed in Outdoor Hydraulic Laboratory, Davis 1931 December
    Photographer: Christiansen, Jerald Emmet
    Physical Description: 1 negative
    Scope and Content Note

Box 22:27  700-M-d-14 Miner's inch box on Anaheim Union Water Company Canal, Anaheim, California. Pictures show check gate across main canal, by pass, and spill crest to hold water level constant above two miner's inch plates delivering water to farmers concrete pipe lines. 1934
    Photographer: Christiansen, Jerald Emmet
    Physical Description: 2 negatives
    Scope and Content Note

Box 22:28  700-M-d-15 Anaheim miner's inch box - Southern California 1932
    Photographer: Adams, Frank
    Physical Description: 1 negative, 2 prints
    Scope and Content Note

Box 23:1  700-M-e-1 Submerged orifice on intake into Medford Island, June, 1924 1924 June
    Photographer: Adams, Frank
    Physical Description: 1 glass plate negative
    Scope and Content Note

Box 23:2  700-M-e-2 Adjustable submergence orifice - outdoor irrigation measuring device laboratory, Davis undated
    Photographer: Adams, Frank
    Physical Description: 2 glass plate negatives
    Scope and Content Note

Box 23:3  700-M-e-3 Yolo submerged orifice gate - outdoor irrigation measuring device laboratory, Davis undated
    Photographer: Adams, Frank
    Physical Description: 2 glass plate negatives
    Scope and Content Note
Box 23:4 700-M-e-4 Delivery Gate and Measuring Device Used on Yolo Water and Power Company, California 1916 August
   Photographer: Robertson, Ralph D.
   Physical Description: 1 negative, 2 prints
   Scope and Content Note
   Rice irrigation measurement by submerged orifice.

Box 23:5 700-M-e-5 Checking flow through submerged orifice with rectangular weir - outdoor irrigation laboratory, Davis. undated
   Photographer: Wadsworth, H.A.
   Physical Description: 2 glass plate negatives, 3 prints
   Scope and Content Note

Box 23:6 700-M-e-6 Concrete flume and submerged orifice. Outdoor hydraulic laboratory, Davis, California. 1929 December 5
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 23:7 700-M-e-7 Adjustable submerged orifice installation on turnout. Fresno Irrig. Dist. 1930 January
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 23:8 700-M-e-8 Delivery and measuring gate, Rice fields, Yolo Water and Power Company, California. 1916 September
   Photographer: Robertson, Ralph D.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 23:9 700-M-e-9 Measuring box in duty of water investigations of rice. undated
   Photographer:
   Physical Description: 1 negative
   Scope and Content Note

Box 23:10 700-M-e-10 (2 neg.) Great Western Irrigation Meter installed March 1932 on 4" x 12" rectangular submerged orifice. Outdoor Hydraulic Laboratory, Davis, California. 1932 April
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives, 3 prints
   Scope and Content Note

Box 23:11 700-M-f-20 Venturi Meter, Davis, California 1915 October 29
   Photographer: Hutchins, Wells A.
   Physical Description: 1 negative, 1 print
   Scope and Content Note
   This was installed on the Irrigation Investigations Plant for the purpose of testing out the meter.
| Box 23:12 | 700-M-f-21 **Taking Current-Meter Measurement, Davis, California. 1915 October 28**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 2 prints  
Scope and Content Note |
| Box 23:13 | 700-M-f-22 **Water Register, Scheeline Rice Field, Willows, California. 1916 September**  
Photographer: Robertson, Ralph D.  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 23:14 | 700-M-f-23 **Register on Edwards tract, Willows 1916**  
Photographer:  
Physical Description: 1 negative  
Scope and Content Note |
| Box 23:15 | 700-M-f-24 **Water Register on McDermitt Weir, Maxwell, Cal. 1916 September**  
Photographer: Robertson, Ralph D.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
Used in measuring water for rice irrigation. |
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 23:17 | 700-M-f-30 **Screen and Watson water register, Gage Canal, Arlington, Calif. 1919 May**  
Photographer: F.W.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 23:18 | 700-M-f-31 **Dethridge meter at Wheelock ranch. Duty of water measurements, Imperial V. 1915**  
Photographer: Tait, C.E.  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 23:19 | 700-M-f-33 **Reliance meters main line, Santa Paula, Calif. 1919 April**  
Photographer: F.W.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 23:20 | 700-M-f-34 **Neptune water meter for orchard. Whittier, Calif. 1919 April**  
Photographer: F.W.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 23:21 | 700-M-f-35 **Reliance meter. Whittier, Calif. 1919 May**  
Photographer: F.W.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
Box 23:22

700-M-f-38 **Battery of Reliance meters measuring water from Mutual Water Company pumping plant, near Dodge Land Co. headquarters, Butte Co. 1921 August**

   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print

Scope and Content Note

Box 23:23

700-M-f-39 **Reliance meter in pipe line, - outdoor measuring device laboratory, Davis undated**

   Photographer: Adams, Frank
   Physical Description: 2 glass plate negatives

Scope and Content Note

Box 23:24

700-M-f-40 **Dethridge Meter - outdoor measuring device lab. - Davis undated**

   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative

Scope and Content Note

Box 23:25

700-M-f-41 **Water Register, Mallon and Blevins Rice Canal and Water Lift. 1918 November**

   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative

Scope and Content Note

Box 23:26

700-M-f-43 **Covers for measuring wells being removed from the forms Fresno I.D. 1929 July 8**

   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative

Scope and Content Note

Box 23:27

700-M-f-45 **Calibrating station. Fresno Irrigation District. Mr. H. M. Tucker measuring elevation of water in pond below gate to determine total loss of head through gate and pipe. 1929 May 23**

   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative

Scope and Content Note

Slide no. 736

Box 23:28

700-M-f-46 **Installing two adjustable flow meters at calibration station. Fresno Irrig. Dist. Opening is to be varied to obtain sufficient difference in head to make accurate measurement with large variation in discharge. 1929 May 14**

   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative

Scope and Content Note

Slide no. 733

Box 23:29

700-M-f-47 **Flow meter cast in section of concrete pipe. Fresno Irrig. Dist. 1929 May 8**

   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative

Scope and Content Note

Slide no. 741
Box 23:30  700-M-f-48 Mr. Tucker installing brass plate on 14" flow meter. Plate contains No. of meter, diameters of pipe and throat, R. and K. Fresno Irrig. Dist. 1929 May 6
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 23:31  700-M-f-49 Installation of Calco gates. 24" and 12" connected to corrugated culvert pipe at calibration station. Picture shows stilling wheel for measuring loss of head through gate. Tests were made to determine relationship between corrugated culvert pipe and concrete pipe. Manometer tube not used for measuring head, but just for indicating difference in levels. 1929 May 23
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 23:32  700-M-f-50 Calibration station Fresno Irrig. Dist. before turning in water. Shows 24" and 12" Calco 101 gates on left with corrugated pipes. Texas and Snow gates in center, and adjustable flow meters at right. Fresno Irrigation District 1929 May 18
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 1 print
   Scope and Content Note
   Slide no. 737

Box 23:33  700-M-f-51 Mr. A. J. Gerner measuring water through a 12 inch flow meter measuring device. 1929 May 6
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 23:34  700-M-f-52 Manometer tube used by Consolidated Irrig. Dist. to determine "head" on Venturi meters during tests at Fresno Calibration Station 1929 May 7
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 6 prints
   Scope and Content Note

Box 23:35  700-M-f-53 Metal cones built to enlarge outlet end of Venturi meters to determine difference in head cast with large outlet end. Very little head saved with cone. 1929 May 5
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 23:36  700-M-f-54 Casting Venturi meters in metal forms at Consolidated Irrig. Dist. yard. 1929 May 5
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 9 prints
   Scope and Content Note
Box 24:1
700-M-f-55 Metal forms for casting Venturi meters. From left to right. Inside form for 24" entrance, outside for 20" entrance. Inside for 24" exit, and inside for 16" exit and entrance respectively. Consolidated Irrig. Dist. 1929 May 25
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 10 prints
   Scope and Content Note

Box 24:2
700-M-f-56 Metal forms for Venturi meters. From left to right, standing. Outside and inside form for 24" exit section, outside 20" entrance, inside 24" entrance, and inside forms for 16" meter on top. Also pressure rings. Consolidated Irrig. Dist. 1929 May 25
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 24:3
700-M-f-57 20" Venturi meter. Precast sections showing metal form for throat section which is poured in place. Pipe has 4-3/8" holes at quarter points for pressure take out. Picture taken in yard. Consolidated Irrig. Dist. 1929 May 25
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 9 prints
   Scope and Content Note

Box 24:4
700-M-f-58 Water register and weir on McDermitt rice field, Maxwell, Calif. undated
   Photographer:
   Physical Description: 1 negative
   Scope and Content Note

Box 24:5
700-M-f-59 View into entrance section of Venturi meters. Tarn, Consolidated Irrig. Dist. 1929 July 10
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 9 prints
   Scope and Content Note

Box 24:6
700-M-f-61 Headgate and Venturi meter measuring device on C and K Canal below Cole Slough at Tarn. Structure equipped with three rectangular Venturi meters, with capacity of about 200 c.f.s. each. Mr. I. H. Teilman Engineer, Consolidated Irrig. Dist. 1929 May 13
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note
   Slide no. 739

Box 24:7
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 9 prints
   Scope and Content Note
   Slide no. 740
<table>
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<tr>
<th>Box 24:8</th>
<th>700-M-f-64</th>
<th>Irrigation Venturi Meter mfg. by Builders Iron Foundry, Providence, R. I. Installed in outdoor hydraulic laboratory, University Farm, Davis, California 1929 June</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Physical Description: 1 negative</td>
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<td>Scope and Content Note</td>
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<table>
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<tr>
<th>Box 24:9</th>
<th>700-M-f-65</th>
<th>Sheet metal Venturi meter installed in hydraulic laboratory Overall length 3'1&quot;; entrance section 1'0&quot;; throat section 7&quot;; exit section 1'6&quot;. Diameters, ends 12&quot;, throat 7&quot; inside 1929 October</th>
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<tbody>
<tr>
<td></td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
<td></td>
<td></td>
<td>Physical Description: 1 negative, 4 prints</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 24:10</th>
<th>700-M-f-66</th>
<th>12&quot; Venturi meter before backfilling. Outdoor hydraulic laboratory, Davis, California 1929 November</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Description: 1 negative, 3 prints</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 24:11</th>
<th>700-M-f-67</th>
<th>Calibrated 12&quot; Calco #101 slide headgate and 12&quot; Venturi meter. Outdoor hydraulic laboratory, Davis, California 1929 December 5</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
<td></td>
<td></td>
<td>Physical Description: 3 negatives, 2 prints</td>
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<td>Scope and Content Note</td>
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<thead>
<tr>
<th>Box 24:12</th>
<th>700-M-f-68</th>
<th>Differential indicating gage and gage box on Venturi meters at Tarn. Consolidated Irrig. Dist. A very accurate and inexpensive indicating gage designed by I. H. Teilman 1929 July 10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<td></td>
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<td>Physical Description: 1 negative</td>
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<tr>
<th>Box 24:13</th>
<th>700-M-f-69</th>
<th>Gage box with manometer tube gage on Venturi meter. Scale is adjustable to read difference in head directly. Consolidated Irrigation District. 1929 May 13</th>
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</thead>
<tbody>
<tr>
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<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
<td></td>
<td></td>
<td>Physical Description: 1 negative, 9 prints</td>
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<thead>
<tr>
<th>Box 24:14</th>
<th>700-M-f-70</th>
<th>Precast 30 inch Venturi tubes, Consolidated Irrig. Dist. 1929 December</th>
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<tr>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
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<td>Physical Description: 1 negative, 4 prints</td>
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<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 24:15</th>
<th>700-M-f-71</th>
<th>Precast Venturi tubes, Consolidated Irrigation District Meta forms at left for 24&quot; meter 1929 December</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
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<td>Physical Description: 1 negative, 5 prints</td>
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</table>
| Box 24:16 | 700-M-F-72 **Forms for flow meter measuring device. Fresno Irrigation District. 8", 10", 12", 16", and 16" respectively. 1930 January**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| Box 24:17 | 700-M-F-75 **Orifice plate for thin plate Orifice measuring device. Outdoor Hydraulic Laboratory, Davis, California. Outside diameter 12 1/2-inches, inside diameter 7-inches. 1930 October**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| Box 24:18 | 700-M-F-76 **Two 30 inch Venturi meters being installed at head of lateral. Consolidated Irrigation District. 1929 December**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative, 2 prints  
Scope and Content Note |
| Box 24:19 | 700-M-F-78 **Discharge coefficient curves for 12-inch x 7-inch Venturi meter installed in Outdoor Hydraulic Laboratory, University Farm, Davis, from Engineering News-Record, January 29, 1931. 1930**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note  
Slide no. 743 |
| Box 24:20 | 700-M-F-79 **Drawing of Venturi Meter. Consolidated Irrigation District 1932 January**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note  
Slide no. 738 |
| Box 24:21 | 700-M-F-80 **12-inch Sparling meter, light pattern type, purchased February, 1932, for installation in Outdoor Hydraulic Laboratory, Davis, Calif. 1932**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative, 3 prints  
Scope and Content Note |
| Box 24:22 | 700-M-F-81 **8-inch Sparling Meter 1932 February**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 3 negatives, 4 prints  
Scope and Content Note  
Installed in Outdoor Hydraulic Laboratory Davis, California. Purchased on Requisition 32984 - F1308, February 23, 1932, $96.00 |
| Box 24:23 | 700-M-F-82 **Stevens water level recorder, type E 1932 August 15**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 3 negatives, 4 prints  
Scope and Content Note |
Box 24:24 700-M-f-83 **Stevens water level recorder, type L 1933 August 18**
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives, 3 prints
   Scope and Content Note

Box 24:25 700-M-f-84 **Lietz water level recorder 1932 August 18**
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 2 prints
   Scope and Content Note

Box 24:26 700-M-f-85 **Stevens type L water level recorder 1932 October 21**
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 3 prints
   Scope and Content Note

Box 24:27 700-M-f-86 **(a) Lietz water level recorder (b) Stevens type L water level recorder (c) Stevens type E water level recorder undated**
   Photographer:
   Physical Description: 1 negative, 2 prints
   Scope and Content Note
   Fig. 34

Box 24:28 700-M-f-87 **Battery of reliance meters, Butte Mutual Water Company, Western Canal Company near Dodgeland, Butte County undated**
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 24:29 700-M-f-88 **8" portable valve meter. 1938 August 20**
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 5 negatives, 2 prints
   Scope and Content Note

Box 24:30 700-M-f-89 **Portable valve meter for measuring irrigation water. Used on 8" Snow valve, Field 7. Shows original meter before it was reconstructed with 8" standard pipe. 1937 October**
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 3 negatives, 2 prints
   Scope and Content Note

Box 24:31 700-M-f-90 **Venturi tube, Tisdale Irrigation Drainage Company pumping plant, Meridian, California. Robert Noah, Manager. 30" Venturi tube, "Consolidated Irrigation District" with Calco gate, and 24" tube without gate designed to measure flows from approximately 5 to 35 c.f.s. 1938 October 14**
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives, 1 print
   Scope and Content Note
| Box 24:32 | 700-M-f-91 | Installation of Superior Irrigation Meter, Outdoor Hydraulic Laboratory. This installation was made during fall of 1939. 30" concrete weir beyond meter is the outlet for the water from meter and also provides place for testing 8" valve meter described in Agric. Eng. 19(10):428,’38. 1940 November |
| Box 24:33 | 700-M-f-92 | Superior meter installation in Outdoor Water Measurement Laboratory, Davis, California. 1942 |
| Box 24:34 | 700-M-g-1 | Hoff current meter 1932 August 18 |
| Box 24:35 | 700-M-g-2-1 | Hoff current meter showing electric light indicator (2 negatives) 1931 August |
| Box 24:36 | 700-M-g-2-2 | Price current meter 1932 August 18 |
| Box 24:37 | 700-M-g-3 | Small Price current meter without tail 1932 August 18 |
| Box 24:38 | 700-M-g-4 | (a) Hoff current meter (b) Price current meter 1932 October |
| Box 24:39 | 700-M-g-5 | Typical current meter notes illustrating manner of recording the measurement of a small stream. 1934 July |
| Box 25:1 | 700-M-z-1 | Measuring depth of water in hole below Stevensen's Bridge, Putah Creek 1931 July |
Box 25:2  700-M-z-2 View of water measuring laboratory showing header box and Detheridge meter. undated
    Photographer: Adams, Frank
    Physical Description: 1 negative, 2 prints
    Scope and Content Note

Box 25:3  700-M-z-3 Collins Flow Gage 1932 October
    Photographer: Christiansen, Jerald Emmet
    Physical Description: 1 negative, 2 prints
    Scope and Content Note

Box 25:4  700-M-z-4 Float gage installed on 2-foot rectangular weir in Outdoor Hydraulic Laboratory, University Farm, Davis 1931 December
    Photographer: Christiansen, Jerald Emmet
    Physical Description: 1 negative
    Scope and Content Note

Box 25:5  700-M-z-5 Collins flow gage 1932 August 15
    Photographer: Christiansen, Jerald Emmet
    Physical Description: 1 negative
    Scope and Content Note

Box 25:6  700-M-z-6 Collins flow gage being used to measure flow of farmer's pump. Santa Clara Valley - investigation (C.V. Givan) 1934 May
    Photographer: Christiansen, Jerald Emmet
    Physical Description: 2 negatives
    Scope and Content Note

Box 25:7  700-M-z-7 Detail of measuring tank, measuring box, Montana Experiment Station run-off plots. Bozeman. 1932 May
    Photographer: Adams, Frank
    Physical Description: 1 negative
    Scope and Content Note

Box 25:8  700-M-z-8 Measuring box for run-off from Montana Experiment Station erosion plots near Bozeman, Montana. H. E. Murdock standing by. 1932 May
    Photographer: Adams, Frank
    Physical Description: 1 negative
    Scope and Content Note

Box 25:9  700-M-z-9 Experimental setup for determining characteristics of transverse pitot tubes. A. E. Pump laboratory. Test by J. E. Christiansen and O.C. French. 1936 October 9
    Photographer: Christiansen, Jerald Emmet
    Physical Description: 1 negative
    Scope and Content Note
Box 25:10
700-M-z-10 Agr. Engr. Characteristics of Transverse tubes. By J. E. Christiansen and O. C. French. Fig. 1. (A) Usual method of inserting transverse tubes in pipe used for series A, D, and E, tests. The Collins tube is shown. (B) Special method used for series B and C tests. (C) Transverse tube with single orifice. Three sizes were used: 1/8, 3/16, and 1/4-inch tube diameters. (D) Tube for determining static pressure. (E) Improvised Pitot tube used in series D tests. 1936 November
Photographer: Christiansen, Jerald Emmet (Weston)
Physical Description: 1 negative
Scope and Content Note
Slide no. F-1191

Box 25:11
700-M-z-11 Agr. Engr. Characteristics of Transverse tubes. By J. E. Christiansen and O. C. French. Fig. 2. Curves (a), (b), (c), and (d), velocity traverses for series A tests; curve (3) for series C tests. 1936 November
Photographer: Christiansen, Jerald Emmet (Weston)
Physical Description: 1 negative
Scope and Content Note
Slide no. F-1192

Box 25:12
700-M-z-12 Agr. Engr. Characteristics of transverse tubes. By J. E. Christiansen and O. C. French. Fig. 3. Velocity traverses for half pipe diameter, showing effect of stuffing-box position with respect to inside of pipe. 1936 November
Photographer: Christiansen, Jerald Emmet (Weston)
Physical Description: 1 negative
Scope and Content Note
Slide no. F-1193

Box 25:13
700-M-z-13 Agr. Engr. Characteristics of transverse tubes. By J. E. Christiansen and O. C. French. Fig. 4. Velocity traverses for series B tests. 1936 November
Photographer: Christiansen, Jerald Emmet (Weston)
Physical Description: 1 negative
Scope and Content Note
Slide no. F-1194

Box 25:14
700-M-z-14 Agr. Engr. Characteristics of transverse tubes. By J. E. Christiansen and O. C. French. Fig. 5. Velocity traverses in 1-inch pipe, series E tests. 1936 November
Photographer: Christiansen, Jerald Emmet (Weston)
Physical Description: 1 negative
Scope and Content Note
Slide no. F-1195

Box 25:15
700-M-z-15 Agr. Engr. Characteristics of tranverse tubes. By J. E. Christiansen and O. C. French. Fig. 6. Pressure distribution around tranverse tubes: (a) 5/16-inch tube in 5 5/8-inch pipe; (b) 5/16-inch tube in 1-inch pipe; (c) 1/8-inch tube in 1-inch pipe. 1936 November
Photographer: Christiansen, Jerald Emmet (Weston)
Physical Description: 1 negative
Scope and Content Note
Slide no. F-1196
<table>
<thead>
<tr>
<th>Box 25:16</th>
<th>700-M-z-16 Color gun used for injecting fluorescein solution into concrete pipe for friction loss test. Oct. 1937. 1937 October</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<thead>
<tr>
<th>Box 25:17</th>
<th>700-N-a-3 Portuguese gate with apron. Modesto Irrigation District. Width 5'0&quot;, depth 2'0&quot; 1929 August</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
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<tr>
<th>Box 25:18</th>
<th>700-N-a-4 Portuguese gate. Width 8'0&quot;, depth 1'0&quot;. Modesto Irrigation District 1929 August</th>
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<tr>
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<tr>
<th>Box 25:19</th>
<th>700-N-a-5 Portuguese gate in very sandy soil. Gate sill several inches below level of land; no erosion around gate. Turlock Irrigation District 1929 August</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
<th>Box 25:20</th>
<th>700-N-a-6 Small Redwood gate in field ditch. Width of box 2'6&quot;, depth 2'0&quot;. Single wing wall. Merced Irrigation District. 1929 August</th>
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<tbody>
<tr>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
<th>Box 25:21</th>
<th>700-N-a-7 Portuguese gate. Width of gate 4'0&quot;. Sandy loam soil. Practically no erosion back of gate. Turlock Irrigation District. 1929 August</th>
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<tr>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
<th>Box 25:22</th>
<th>700-N-a-8 Field gate for large heads 1929 October</th>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
<th>Box 25:23</th>
<th>700-N-a-9 End view of single wall field gate showing failing condition after having been reinforced with posts. University Farm, Davis 1929 October</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>
Box 25:24  700-N-a-10 Single wall field gate, open, University type, note hole washed back of gate and condition of sill. University Farm, Davis 1929 October
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 25:25  700-N-a-11 End view of University type single wall field gate of 1" lumber showing post reinforcing necessary to prevent failure. University Farm, Davis 1929 October
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 25:26  700-N-a-12 Portuguese Type, single wall field gate. (lantern slide) 1929 October
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 1 print
   Scope and Content Note
   Slide no. 634

Box 25:27  700-N-a-13 University type, single wall field gate made from 1 inch lumber, good condition. University Farm, Davis 1929 October
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 25:28  700-N-a-14 Single wall field gate for large heads. (Lantern slide) 1929 October
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 1 print
   Scope and Content Note
   Slide no. 635

Box 25:29  700-N-a-15 University type, single wall field gate (lantern slide) 1929 October
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note
   Slide no. 637

Box 25:30  700-N-a-16 Single wall field gate, University type, showing weakness. Made from 1 1/2" lumber. University Farm, Davis 1929 October
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 25:31  700-N-a-17 Redwood field gates in Morrow Lumber Company yard, Brawley, Calif. 1931 April
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 1 print
   Scope and Content Note
Box 25:32 700-N-a-18 Redwood field gate made and sold by Morrow Lumber Company, Brawley, Calif. Length 3 feet, width, 18" outside, height, 8" inside. Made in lengths of 2 to 5 feet. (2 views) 1931 April
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives, 2 prints

Scope and Content Note

Box 25:33 700-N-a-19 Gopher type field gate 1929 September
   Photographer: Weston, E. for Christiansen, Jerald Emmet
   Physical Description: 1 negative

Scope and Content Note

Slide no. 719

Box 25:34 700-N-a-20 Front view, Portuguese type field gate. Rear view of same structure in negative file. 1929 September
   Photographer: Weston, E. for Christiansen, Jerald Emmet
   Physical Description: 2 negatives

Scope and Content Note

Slide no. 720-721

Box 25:35 700-N-a-21 Levee gate removed, Richvale 1916
   Photographer:
   Physical Description: 1 negative

Scope and Content Note

Box 25:36 700-N-a-22 Wooden field gate used on North field of G.O. Griffes, Woodland 1914
   Photographer: Hutchins, W.A.
   Physical Description: 1 negative

Scope and Content Note

Box 25:37 700-N-a-23 Model of gopher type field gate, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932. 1932 April 18
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative

Scope and Content Note

Box 25:38 700-N-a-24 Model of gopher type field gate, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932. 1932 April 18
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative

Scope and Content Note

Box 25:39 700-N-a-25 Model of single wall field gate, scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932. 1932 April 18
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative

Scope and Content Note
<table>
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<tr>
<th>Box</th>
<th>Item</th>
<th>Description</th>
<th>Notes</th>
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<tr>
<td>Box 25:40</td>
<td>700-N-a-26</td>
<td><strong>Model of single wing wall field gate with side walls,</strong> scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932</td>
<td>1932 April 18</td>
</tr>
<tr>
<td></td>
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<td><strong>Photographer:</strong> Christiansen, Jerald Emmet</td>
<td><strong>Physical Description:</strong> 1 negative</td>
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<td><strong>Scope and Content Note</strong></td>
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<tr>
<td>Box 25:41</td>
<td>700-N-a-27</td>
<td><strong>Model of single wall type field gate,</strong> scale approximately 1 to 4. Used in Picnic Day exhibit, April 16, 1932</td>
<td>1932 April 27</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Photographer:</strong> Christiansen, Jerald Emmet</td>
<td><strong>Physical Description:</strong> 1 negative</td>
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<td><strong>Scope and Content Note</strong></td>
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<tr>
<td>Box 25:42</td>
<td>700-N-a-28</td>
<td><strong>Single wall field gate with apron.</strong> Opening 2′ wide. Used on alfalfa strips on side-hill terraces, University Farm, Davis</td>
<td>1942 March 3</td>
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<tr>
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<td></td>
<td><strong>Photographer:</strong> Christiansen, Jerald Emmet</td>
<td><strong>Physical Description:</strong> 7 negatives, 5 prints</td>
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<td><strong>Scope and Content Note</strong></td>
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<tr>
<td>Box 25:43</td>
<td>700-N-a-29</td>
<td><strong>Single wall field gate with apron.</strong> Opening 2′ wide. Used on alfalfa strips on side-hill terraces, University Farm, Davis. View of closed gate</td>
<td>1942 March 3</td>
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<tr>
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<td><strong>Photographer:</strong> Christiansen, Jerald Emmet</td>
<td><strong>Physical Description:</strong> 3 negatives, 2 prints</td>
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<td><strong>Scope and Content Note</strong></td>
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<tr>
<td>Box 25:44</td>
<td>700-N-a-30</td>
<td><strong>Armco irrigation gate model 161 used as field gate on alfalfa strips on side-hill terraces, University Farm, Davis</strong></td>
<td>1942 March 3</td>
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<td></td>
<td><strong>Photographer:</strong> Christiansen, Jerald Emmet</td>
<td><strong>Physical Description:</strong> 1 negative</td>
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<td><strong>Scope and Content Note</strong></td>
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<tr>
<td>Box 26:1</td>
<td>700-N-a-31</td>
<td><strong>Gopher gate used as field gate on alfalfa strips on side-hill terraces,</strong> University Farm, Davis. Opening 12″ high and 16″ wide</td>
<td>1942 March 3</td>
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<tr>
<td></td>
<td></td>
<td><strong>Photographer:</strong> Christiansen, Jerald Emmet</td>
<td><strong>Physical Description:</strong> 1 negative</td>
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<td><strong>Scope and Content Note</strong></td>
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<tr>
<td>Box 26:2</td>
<td>700-N-a-32</td>
<td><strong>Armco head gate model 150, used as field gate on alfalfa strips on side-hill terraces,</strong> University Farm, Davis</td>
<td>1942 March 3</td>
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<tr>
<td></td>
<td></td>
<td><strong>Photographer:</strong> Christiansen, Jerald Emmet</td>
<td><strong>Physical Description:</strong> 1 negative</td>
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<td><strong>Scope and Content Note</strong></td>
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<tr>
<td>Box 26:3</td>
<td>700-N-a-33</td>
<td><strong>Two views of wooden field gate at alfalfa field S.W. of Woodland. Width of gate opening is about 4 ft.; ht. 2 ft.</strong></td>
<td>1942 March 16</td>
</tr>
<tr>
<td></td>
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<td><strong>Photographer:</strong> Christiansen, Jerald Emmet</td>
<td><strong>Physical Description:</strong> 2 negatives, 6 prints</td>
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<td><strong>Scope and Content Note</strong></td>
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<tr>
<td>Box 26:4</td>
<td>700-N-a-34</td>
<td><strong>Permanent structure that has been obsoleted by erosion, southwest of Woodland.</strong></td>
<td>1947 October 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Photographer:</strong> Johnston, C.N.</td>
<td><strong>Physical Description:</strong> 1 negative</td>
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<td><strong>Scope and Content Note</strong></td>
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</table>
Box 26:5  700-N-a-35 **Bulkhead check gate 1952 March**  
Photographer: Marr, J.C.  
Physical Description: 1 negative  
Scope and Content Note

Box 26:6  700-N-b-1 **View showing method of pouring concrete slab on turnout gates. Slab 2” thick. Modesto Irrig. Dist. 1929 July 10**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note

Box 26:7  700-N-b-2 **24” concrete turnout gate. Price complete as shown with one section of pipe $9.60. Modesto Irrig. Dist. 1929 July 10**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note

Box 26:8  700-N-b-3 **Concrete turnout gate before slide guides are bolted in place. Modesto Irrig. Dist. 1929 July 10**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 26:9  700-N-b-4 **Concrete turnout gate with sheet metal slide for use in field ditched. Manufactured by Modesto Irrig. Dist. 1929 July 10**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note  
Slide no. 632

Box 26:10  700-N-b-5 **Roy Wray and concrete border gate on University Farm. Used to turn water into alfalfa checks. 1929 May 1**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 26:11  700-N-b-6 **Calco gate No. 105 used as turnout into alfalfa check. A rather expensive installation for this use. 6” concrete headwall on both ends of concrete pipe through ditch bank. 1929 May 6**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note

Box 26:12  700-N-b-7 **Concrete turnout from lined ditch. Width 4’6”, depth 2’3”. Note double set of flashboards. Turlock Irrigation District. 1929 August**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note
| Box 26:13 | 700-N-b-8 | Concrete turnout from lined ditch into alfalfa check. Two inch flashboards. No erosion back of gate. Width 4'0", depth 1'6". Turlock Irri. District. 1929 August |
| Box 26:14 | 700-N-b-9 | Concrete turnout from field ditch into alfalfa check. Width 4'0", depth 1'8". No reinforcing steel. Very poor concrete. Wall formed only on one side. Cost about $8.00 complete. Turlock Irrigation District 1929 August |
| Box 26:15 | 700-N-b-10 | Concrete turnout gate into field check. Width 4'0", depth 2'0". Turlock Irrig. District. 1929 August |
| Box 26:16 | 700-N-b-11 | Concrete turnout gate in earth ditch. Very sandy soil. Gate set too high. Width 6'0", depth 2'6". Turlock Irrigation District. 1929 August |
| Box 26:17 | 700-N-b-12 | Concrete turnout into alfalfa check. Width 4'0" depth 2'0". Walls 4" thick. Not reinforced. Modesto Irrigation District 1929 August |
| Box 26:18 | 700-N-b-13 | Concrete structure at turnout from lateral canal into private head ditch. 5" walls, not reinforced. Modesto Irrigation District 1929 August |
| Box 26:19 | 700-N-b-14 | Concrete turnout into alfalfa check. Sandy soil. Bank plastered completely over. Side walls formed only on one side. Width 4'6", depth 2'0". Very light sheet metal grooves, metal projecting above gate about 6". Note erosion below structure. Floor of gate placed too high with relation to ground level below it. Turlock Irrig. Dist. 1929 August |
Box 26:20
700-N-b-15 View from below structure shown in No. Nb14 showing large hole washed out. Structure set too high. Turlock Irrigation District. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 26:21
700-N-b-16 Concrete turnout into alfalfa check. Note 12" drop back of gate sill. Width of gate 3'6", depth 2'0". Double set of flash boards spaced 6" apart with soil between to prevent leakage. Turlock Irrigation District. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 26:22
700-N-b-17 Concrete turnout gate into alfalfa check. Width 6'0", depth 3'0". Concrete 6" thick. Gates of 1" tongue and groove flooring. No erosion below gate. Sandy loam soil. Turlock Irrigation District. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 26:23
700-N-b-18 Concrete turnout gate into field check. Very sandy soil but no erosion back of structure. Note double set of flashboard grooves. Turlock Irrigation District 1929 August
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 26:24
700-N-b-19 Concrete turnout alfalfa check. View from below gate. Note double set of grooves. Turlock Irrigation District. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 26:25
700-N-b-20 Concrete field gate on University Farm, Davis, California 1929 October
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 26:26
700-N-b-21 Concrete field gate on University Farm, Davis, California 1929 October
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 26:27
700-N-b-22 Concrete turnout into alfalfa check from concrete lined private ditch. Turlock Irrig. Dist. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 1 print
   Scope and Content Note
<table>
<thead>
<tr>
<th>Box</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>26:28</td>
<td>Opening left in lining for field gate. Improvement District ditch. Turlock Irrigation District. 1931 March</td>
</tr>
<tr>
<td>26:29</td>
<td>Construction of side gate in Improvement District ditch. Turlock Irrigation District. 1931 March</td>
</tr>
<tr>
<td>26:30</td>
<td>Concrete field gate in unlined ditch, constructed by Andrew Certa, Route 1, box 68, Crow's Landing, Calif. 1931 March</td>
</tr>
<tr>
<td>26:31</td>
<td>Construction of field gate in lined ditch. Improvement District work. Turlock Irrigation District 1931 March</td>
</tr>
<tr>
<td>26:32</td>
<td>Concrete field gate in lined ditch. Turlock Irrigation District 1931 March</td>
</tr>
<tr>
<td>26:33</td>
<td>Construction of field gate in lined ditch after lining is placed. Improvement District ditch. Turlock Irrigation District. 1931 March</td>
</tr>
<tr>
<td>26:34</td>
<td>Field gate made of concrete pipe. Manufactured by Imperial Valley Concrete Co., El Centro, Calif., in sizes 6-inches to 24-inches. Prices range from $2.25 to $9.75, subject to discounts for cash and large orders. 1931 April</td>
</tr>
<tr>
<td>26:35</td>
<td>Field gate made of concrete pipe. Manufactured by Brawley Concrete Co., Brawley, California, in sizes from 6-inches to 24-inches. Prices $1.75 to $7.00. (2 views) 1931 April</td>
</tr>
<tr>
<td>Box 26:36</td>
<td>700-N-b-31</td>
</tr>
<tr>
<td>Box 26:37</td>
<td>700-N-b-32</td>
</tr>
<tr>
<td>Box 26:38</td>
<td>700-N-c-1</td>
</tr>
<tr>
<td>Box 26:39</td>
<td>700-N-c-2</td>
</tr>
<tr>
<td>Box 26:40</td>
<td>700-N-c-3</td>
</tr>
<tr>
<td>Box 26:41</td>
<td>700-N-c-4</td>
</tr>
<tr>
<td>Box 26:42</td>
<td>700-N-c-5</td>
</tr>
<tr>
<td>Box 26:43</td>
<td>700-N-c-6</td>
</tr>
</tbody>
</table>
Box 26:44  
700-N-c-7 Portuguese gate with apron used as stop gate in private ditch. Modesto Irrigation District. Width of openings 3'6". 1929 August  
  Photographer: Christiansen, Jerald Emmet  
  Physical Description: 1 negative  
  Scope and Content Note

Box 26:45  
700-N-c-8 Double wing wall gate, University type. University Farm, Davis 1929 October  
  Photographer: Christiansen, Jerald Emmet  
  Physical Description: 1 negative, 1 print  
  Scope and Content Note

Box 26:46  
700-N-c-9 Double wing wall stop gate from lower side showing extent of hole washed out below gate. Shows need for deep cut-off walls University Farm, Davis 1929 October  
  Photographer: Christiansen, Jerald Emmet  
  Physical Description: 1 negative  
  Scope and Content Note

Box 26:47  
700-N-c-10 University type, double wing wall field gate (lantern slide) 1929 October  
  Photographer: Christiansen, Jerald Emmet  
  Physical Description: 1 negative  
  Scope and Content Note  
  Slide no. 636

Box 26:48  
700-N-c-11 Stop gate in Main lateral, University Farm, Davis, Calif. Outlet gates on diagonal is not satisfactory 1929 October  
  Photographer: Christiansen, Jerald Emmet  
  Physical Description: 1 negative  
  Scope and Content Note

Box 26:49  
700-N-c-12 Stop gate and side gate on improvement district ditch. Turlock Irrigation District. 1931 March  
  Photographer: Christiansen, Jerald Emmet  
  Physical Description: 1 negative  
  Scope and Content Note

Box 27:1  
700-N-c-13 Construction of stop gate in Improvement District ditch, Turlock Irrigation District. 1931 March  
  Photographer: Christiansen, Jerald Emmet  
  Physical Description: 1 negative  
  Scope and Content Note

Box 27:2  
700-N-c-14 (5 negs) Portable 18 gage galvanized iron check structure used in field ditches. Agronomy Division, University Farm, Davis, Calif. 1932 April  
  Photographer: Christiansen, Jerald Emmet  
  Physical Description: 5 negatives, 4 prints  
  Scope and Content Note
<table>
<thead>
<tr>
<th>Box</th>
<th>Code</th>
<th>Description</th>
<th>Date</th>
<th>Photographer</th>
<th>Physical Description</th>
<th>Scope and Content Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>27:3</td>
<td>700-N-c-15</td>
<td>Portable 18 gage galvanized iron check structure used in field ditches, Agronomy Division, University Farm, Davis, Calif.</td>
<td>1932 April</td>
<td>Christiansen, Jerald Emmet</td>
<td>1 negative</td>
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<tr>
<td>27:4</td>
<td>700-N-c-16</td>
<td>Double wing wall stop gate and drop in head ditch for alfalfa strips on side-hill terraces, University Farm, Davis.</td>
<td>1942 March 3</td>
<td>Christiansen, Jerald Emmet</td>
<td>3 negatives, 2 prints</td>
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<tr>
<td>27:5</td>
<td>700-N-c-17</td>
<td>Canvas check dams being used for irrigating alfalfa near Davis, Calif.</td>
<td>1950 August</td>
<td>Marr, J.C.</td>
<td>1 negative, 2 prints</td>
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<tr>
<td>27:6</td>
<td>700-N-d-1</td>
<td>Galvanized sheet metal furrow tube. Sold by Imperial Valley Concrete Company for 65 cents. Length 3 feet, diameter 3&quot;. Made by Snow Mfg. Co.</td>
<td>1931 April</td>
<td>Christiansen, Jerald Emmet</td>
<td>1 negative, 9 prints</td>
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<tr>
<td>27:7</td>
<td>700-N-d-2</td>
<td>Redwood furrow tubes in Morrow Lumber Company yard, Brawley, Calif.</td>
<td>1931 April</td>
<td>Christiansen, Jerald Emmet</td>
<td>2 negatives, 2 prints</td>
<td></td>
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<tr>
<td>27:8</td>
<td>700-N-d-3</td>
<td>Redwood furrow tubes sold by Morrow Lumber Co., Brawley, Calif. Sizes: top, 1 1/4&quot; round; center, 1 1/8 x 1 1/2&quot; elliptical; bottom, 1 1/4&quot; x 1 2/3&quot;, oval. Lengths, usual 2 feet; occasionally demanded up to 3 feet. (2 views)</td>
<td>1931 April</td>
<td>Christiansen, Jerald Emmet</td>
<td>2 negatives, 1 print</td>
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<tr>
<td>27:9</td>
<td>700-N-d-4</td>
<td>Concrete furrow tube. Made and sold by Imperial Valley Concrete Co., El Centro, Calif. Length 32&quot;, diameter of hole, 2&quot;. Sells for 45 cents. Usually installed with gate at downstream end for convenience.</td>
<td>1931 April</td>
<td>Christiansen, Jerald Emmet</td>
<td>1 negative, 1 print</td>
<td></td>
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<tr>
<td>27:10</td>
<td>700-N-d-5</td>
<td>Lath tube in head ditch. Fresno County.</td>
<td>1916 June</td>
<td>Robertson, Ralph</td>
<td>1 negative</td>
<td></td>
</tr>
</tbody>
</table>
Box 27:11  700-N-d-6 Siphoning tubes from irrigation ditches for irrigating crops such as beets. Made from 2" leader pipe. 1939 November 21
  Photographer: Doneen, L.D.
  Physical Description: 2 negatives, 1 print
  Scope and Content Note

Box 27:12  700-N-e-1 Wooden furrow dam, Pajaro Valley, Cal. undated
  Photographer:
  Physical Description: 1 negative, 1 print
  Scope and Content Note

Box 27:13  700-N-z-3 Box used at outlet of private drains into the irrigation district's drainage system. Also used as turnouts from canals to flood roadways, etc. Boxes built by irrigation district and sold to farmers. 1931 April
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 1 negative
  Scope and Content Note

Box 27:14  700-N-z-4 Galvanized iron boxes for protection of ditch banks at cut into alfalfa check. Agronomy Division, University Farm, Davis 1932 April
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 1 negative
  Scope and Content Note

Box 27:15  700-N-z-5 Land leveler, Montana Experiment Station Farm, Bozeman. 1932 May
  Photographer: Adams, Frank
  Physical Description: 1 negative
  Scope and Content Note

Box 27:16  700-O-1 End of section of concrete retaining wall showing method of making water tight joint, Snake Ravine, Turlock Canal, Calif. undated
  Photographer: Adams, Frank
  Physical Description: 1 negative
  Scope and Content Note

Box 27:17  700-O-2 Excavating for concrete retaining wall in Snake Ravine, Turlock Canal, Calif. undated
  Photographer: Adams, Frank
  Physical Description: 1 negative
  Scope and Content Note

Box 27:18  700-P-25 Outlet, Reservoir No. 255, Fairmead, California. 1916 March 2
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative, 1 print
  Scope and Content Note
Box 27:19  700-P-26 Constructing New Outlet Gate, Alfred Davis Reservoir, Turlock Irrigation District, California. 1915 December 1
   Photographer: Hutchins, Wells A.
   Physical Description: 1 negative, 1 print
   Scope and Content Note
   This outlet gate was constructed to take the place of the preceding gate which went out during the summer of 1914.

Box 27:20  700-P-27 Outlet, Schmidt Bros. Reservoir, Fairmead, California. 1916 March 2
   Photographer: Hutchins, Wells A.
   Physical Description: 1 negative, 1 print

Box 27:21  700-P-28 Outlet, Reservoir of Clayton Chandler, Orland, California. 1916 March 7
   Photographer: Hutchins, Wells A.
   Physical Description: 1 negative, 1 print
   Scope and Content Note
   This device is constructed entirely of wood.

Box 27:22  700-P-29 Outlet of Clear Lake, Lake County, Cal. 1914 November 28
   Photographer: Hutchins, Wells A.
   Physical Description: 1 negative, 1 print
   Scope and Content Note
   This shows Cache Creek, looking up-stream from the impounding dam of the Yolo Water and Power Co., near Lower Lake, Cal.

Box 27:23  700-P-30 Outlet to Reservoir of Joseph Malhauser, Orland, California. 1916 March 7
   Photographer: Hutchins, Wells A.
   Physical Description: 1 negative, 2 prints
   Scope and Content Note
   This outlet is constructed of concrete with a corrugated pipe through the bank to deliver the water into a concrete lined canal. This outlet is on the opposite side of the reservoir from the outlet shown in Picture No.

Box 27:24  700-P-31 One of the Concrete Outlet Towers of the San Fernando Reservoir. undated
   Photographer: Adams, Frank
   Physical Description: 1 negative, 2 prints
   Scope and Content Note

Box 27:25  700-P-35 Vitrified pipe outlet of earthen reservoir, Whittier, Calif. undated
   Photographer:
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 27:26  700-P-36 Outlet to Dallas Lake Reservoir, Modesto Irrigation District, Calif. 1912 June
   Photographer: F.C.S.
   Physical Description: 1 glass plate negative
   Scope and Content Note
<table>
<thead>
<tr>
<th>Box 27:27</th>
<th>700-P-38 Outlet Tunnel Meselbeck Reservoir, Happy Valley Irrigation District. 1919 October 31</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 3 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 27:28</th>
<th>700-P-39 Downstream view of Outlet structure from Owen Reservoir (Davis Reservoir) Turlock Irrigation District 1929 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 27:29</th>
<th>700-P-40 Outlet gates from Owen Reservoir (Davis Reservoir) Turlock Irrigation District 1929 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 27:30</th>
<th>700-Q-1 Concrete Bridge Gate Structure on Orland Project, California. 1914</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.T.K.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative (broken), 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 27:31</th>
<th>700-Q-4 Farm wagon bridge across small lateral ditch. Orland Project, U.S. Reclamation Service, Orland, Calif. 1914 November</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.T.K.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 27:32</th>
<th>700-Q-5 Farm wagon bridge across small lateral ditch, Orland Project U.S. Reclamation Service, Orland, Calif. 1914 November</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.T.K.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 27:33</th>
<th>700-Q-6 High Railroad bridge over Exchequer Reservoir. 1926 April 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 27:34</th>
<th>700-Q-7 Paving entrance structure to syphon under roadway. West Stanislaus Irrigation District 1929 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 27:35</th>
<th>700-Q-8 Mud sill bridge over large lateral. Imperial Irrigation District. Stringers 18&quot; x 6&quot; x 26&quot; spaced 2 feet apart. Two-inch x twelve-inch flooring. 1931 April</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 27:36</td>
<td>700-Q-9 Culverts under highway, Nevada Irrigation District undated</td>
</tr>
<tr>
<td>---</td>
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</tr>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 2 negatives</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 27:37</th>
<th>700-Q-10 Entrance to culverts on Nevada Irrigation District undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 27:38</th>
<th>700-Q-11 Silt sampling station, bridge in Victor Valley used as a silt sampling station. 1917</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Veihmeyer, Frank J.</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative</td>
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</table>

<table>
<thead>
<tr>
<th>Box 27:39</th>
<th>700-Z-9 Tunnel into Bed of Big Rock Creek, Antelope Valley, Cal. 1915 June 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Hutchins, Wells A.</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative, 2 prints</td>
<td></td>
</tr>
</tbody>
</table>

This tunnel was constructed for a distance of about 1/2 mile into the bed of this creek, by the Big Rock Creek Irrigation District in its early days. The supply or water thus yielded was disappointing. Although the surface flow in the creek was greater than normal at this time (June 30, 1915), nevertheless the tunnel was yielding a very small quantity of water as shown in the picture. This small supply is utilized by the present District in addition to the surface flow of the creek.

<table>
<thead>
<tr>
<th>Box 27:40</th>
<th>700-Z-10 Dredge Back of Pumping Plant of Sacramento Valley Irrigation Co., Above Hamilton City, Cal. 1915 August 19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Hutchins, Wells A.</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative, 1 print</td>
<td></td>
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</tbody>
</table>

This dredge is used for keeping clear the slough leading from the main channel of the Sacramento River to the pumping plant.

<table>
<thead>
<tr>
<th>Box 27:41</th>
<th>700-Z-11 Western Canal Showing Drainage Crossing, Nelson Butte County, California. 1916 September</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Robertson, Ralph D.</td>
<td></td>
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<tr>
<td>Physical Description: 1 negative, 1 print</td>
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<table>
<thead>
<tr>
<th>Box 27:42</th>
<th>700-Z-12 Western Canal showing Drainage Crossing. Nelson, Butte County, California. 1916 September</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Robertson, Ralph D.</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative, 1 print</td>
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<thead>
<tr>
<th>Box 27:43</th>
<th>700-Z-13 Western Canal showing Drainage Crossing, Nelson Butte County, California. 1916 September</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Robertson, Ralph D.</td>
<td></td>
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<tr>
<td>Physical Description: 1 negative, 1 print</td>
<td></td>
</tr>
<tr>
<td>Box 27:44</td>
<td>700-Z-19 Bay bridge taken from Lincoln Park, San Francisco. 1935 October 30</td>
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<tr>
<td></td>
<td>Photographer: F.A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: envelope only, no print</td>
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<tr>
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<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 28:1</th>
<th>710-A-1 Main Canal, Sacramento Valley Irrigation Co., East of Willows 1915 June 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 28:2</th>
<th>710-A-2 Main Canal, Sacramento Valley Irrigation Co., Willows, Cal. 1915 June 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 2 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>A continuation of the old Central Irrigation District Canal.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 28:3</th>
<th>710-A-3 Main Canal, Sacramento Valley Irrigation Co., Willows, Cal. 1915 June 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This is a continuation of the old Central Irrigation District Canal.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 28:4</th>
<th>710-A-4 Ceres Main Canal, Turlock Irrigation District, Cal. 1915 July 29</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 2 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 28:5</th>
<th>710-A-5 Main Canal, Sacramento Valley Irrigation Co., Northeast of Willows, Cal. 1915 June 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 2 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>The grade of this canal is so slight that when the water is backed up by the check-drop shown in Picture No. the velocity is almost unnoticed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 28:6</th>
<th>710-A-6 Main Supply Canal, Brown's Valley Irrigation District, Yuba County, Cal. 1915 June 7</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This shows the flume located just above the penstock at the lower power house.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 28:7</th>
<th>710-A-7 Main Canal, Brown's Valley Irrigation District, Yuba Co., Cal. 1915 June 7</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This is looking down the canal as it leaves the lower power house of the Pacific Gas and Electric Co.</td>
</tr>
<tr>
<td>Box 28:8</td>
<td>710-A-8 Lateral Ditch, Big Rock Creek Irrigation District, Cal. 1915 June 30</td>
</tr>
<tr>
<td>---------</td>
<td>---------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This particular lateral supplies the truck gardens which are operated by the Llano del Rio Colony.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 28:9</th>
<th>710-A-9 East Main Ditch, Big Rock Creek Irrigation District, Cal. 1915 June 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>The fall of the country is considerable from the hills to the north and many drops in the canal are necessitated. These are provided, as shown in the picture, by piling up a few stones. Although the soil is very light, being a sandy loam formed from decomposed granite, erosion is not nearly so great as would be expected.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 28:10</th>
<th>710-A-10 Headgate and Main Canal, Settlers Irrigation District, on Boise River, Idaho. 1916 December 25</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Water is brought from the Boise River through a channel to the headgate shown in this picture.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 28:11</th>
<th>710-A-11 Main Canal, Cascade Irrigation District, Washington. 1916 November 18</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>On the right is shown the concrete delivery gate with pipe through bank discharging into the box shown in Picture No.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 28:12</th>
<th>710-A-12 West Branch Snake River Valley Canal, Snake River Valley Irrigation District, Idaho. 1916 December 17</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 28:13</th>
<th>710-A-13 Canal and Heading, Central Irrigation District, Nebraska. 1916 December 6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 28:14</th>
<th>710-A-14 Similar to Picture No. 700-F-127 undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 2 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Robertson, Ralph D.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>
Box 28:16 710-A-16 *Portion of Main Canal of Tulare Irrigation District, California. Undated*
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 28:17 710-A-19 *Lateral of Imperial Water Company No. 3. Parallel to Van Horn Lateral of Imperial Northside Water Company. California 1917 May 31*
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative  
Scope and Content Note  
Owing to the unsatisfactory conditions of the Northside lateral as shown in Picture No. Van Horn has made a cut from the Northside lateral and uses this as a conduit.

Box 28:18 710-A-20 *Upper Canal River Garden Farms Company near Knights Landing, California 1917 May 2*
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative  
Scope and Content Note  
This canal was constructed along the top of the levee bordering Reclamation District No. 108.

Box 28:19 710-A-21 *Van Horn Lateral, Imperial Northside Water Co. California 1917 May 31*
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative  
Scope and Content Note  
This is the lateral referred to in Picture No. the headgate of which is shown in Picture No.

Box 28:20 710-A-22 *Remains of old ditch on the Bert Clark place west of Rowen Station in the Tehachapi Mountains. 1917 November*
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note  
This ditch was found by Assistant State Engineer P. M. Norboe in 1871 and inquiry at that time failed to disclose the time of its construction. The picture was taken in October, 1917, when a visit was made to Tehachapi mountains and valley with Major Norboe to ascertain the early history of ditches reported in the last Biennial Report of the State Engineer as pre-historic.

Box 28:21 710-A-23 *Section of Old Lake Land Canal below Corcoran, California. 1917 August*
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note  
This canal was finished in 1903 but never utilized on account of injunction brought by lower riparian owners. Aug. 1917.

Box 28:22 710-A-24 *Tarr Ditch Crossing China Ditch near Smartsville California 1917 May 18*
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative  
Scope and Content Note
Box 28:23
710-A-25 Dredger Cut, Old River to Pump House, Westside Irrigation District. 1918 May 2
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

Box 28:24
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 3 prints
   Scope and Content Note

Box 28:25
710-A-28 Canal of Western States Gas & Electric Company, El Dorado County, near Placerville. 1918 October
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 glass plate negative, 3 prints
   Scope and Content Note

Box 28:26
710-A-29 Intake of the main canal of Western States Gas & Electric Company on the south fork of the American River. 1918 October
   Photographer: F.G.V.
   Physical Description: 1 glass plate negative (broken)
   Scope and Content Note
   A low rock dam across the river with short intake provided with spillway with housing for gate structure is shown in the left background. During the summer months a wooden sharp-crested weir is constructed under the dam for the purpose of measuring water used for hydro-electric power development in the American River plant of the company near Placerville.

Box 28:27
710-A-30 Main ditch of the Western States Gas and Electric Company below intake over a hillside construction. 1918 October 6
   Photographer: F.G.V.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 28:28
710-A-36 Ditch near Blythe, Palo Verde Valley, Calif. 1913 August
   Photographer: Tait, C.E.
   Physical Description: 1 negative
   Scope and Content Note

Box 28:29
710-A-37 Canal on Cache Creek taken from wagon bridge, looking upstream in evening, Calif. 1900 May 23
   Photographer:
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 28:30
710-A-38 Old Cacheville Ditch, Calif. 1900
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note
   First ditch used in Yolo County. Above Stevens' bridge and a few hundred feet below Gordon slough. The portion of which is shown in the picture was used as the lower end of D.Q.Adams' ditch.
| Box 28:31 | 710-A-39 **Eucalyptus lateral, Imperial Valley, Calif. 1915**  
Photographer: Tait, C.E.  
Physical Description: 1 negative  
Scope and Content Note |
| --- | --- |
| Box 29:1 | 710-A-40 **Irrigation ditch, Calif. undated**  
Photographer: Tait, C.E.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 29:2 | 710-A-41 **Outlet of upper tunnel showing portion of waste gates on left, Turlock Canal, Calif. Undated**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 29:3 | 710-A-42 **Palo Verde canal near Blythe. 1914 December**  
Photographer: Tait, C.E.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 29:4 | 710-A-43 **Palo Verde Canal, looking down form headgate. 1915 January**  
Photographer: Tait, C.E.  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 29:5 | 710-A-44 **Ruins of Old Stevens' ditch. 1900**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note  
View taken about one fourth of a mile above Capay, Calif.; ditch has not been in use for a number of years, abandoned on account of litigation. |
| Box 29:6 | 710-A-47 **Obstructions in main canal of Raywood Rice Canal and Milling Company, near Raywood, Texas. 1901 February**  
Photographer: F.B.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 29:7 | 710-A-72 **Adams' ditch, Calif. Ten feet below dam. One foot of water carried. 1900**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note |
| Box 29:8 | 710-A-73 **Moore Ditch, Calif., showing obstruction; watergrass of very rapid growth. 1900**  
Photographer: P.A.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
<table>
<thead>
<tr>
<th>Box 29:9</th>
<th>710-A-74 Moore Ditch, Calif., showing obstruction. 1900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 29:10</th>
<th>710-A-75 Channel of main canal of Alpaugh Irrigation District fouled with tules. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 29:11</th>
<th>710-A-76 Portion of Alpaugh Irrigation District Canal from which tules have been removed by burning, etc. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 29:12</th>
<th>710-A-77 Looking down the head of Alpaugh Irrigation District Canal from collecting ditches at Smyrna. 1919 November</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Note width form bank to bank, small size of stream and foul channel.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 29:13</th>
<th>710-A-78 Channel of main canal of Alpaugh Irrigation District fouled with tules. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 29:14</th>
<th>710-A-79 Dredged section of Alpaugh Irrigation District Ditch near Alpaugh. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>The cost of this cleaning of the canal was so high that the irrigation district directors ordered the district's dredge scrapped and sold.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 29:15</th>
<th>710-A-80 One of the main canals from Bishop Creek, Owens River Valley. 1920 April</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 negative, 1 print</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 29:16</th>
<th>710-A-82 Looking down Placerville Ditch, El Dorado County, from headgate. 1919 August</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 29:17</th>
<th>710-A-83 Intake, Westside Irrigation District, 1918 1918</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 1 print</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>
Box 29:18  710-A-84 Main canal of Montague Water Conservation District at headgate of penstock of hydraulic pumping plant. Looking east. 1928 July 21
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives, 1 print
   Scope and Content Note
   (a) Main canal (b) Canal supplied by pumping plant Montague Water Conservation District.

   Photographer: Beckett, Samuel H.
   Physical Description: 1 negative
   Scope and Content Note

   Photographer: Christiansen, Jerald Emmet
   Physical Description: envelope only, no print
   Scope and Content Note

Box 29:21  710-A-87 Small lateral maintained by hand shoveling. Imperial Irrigation District. Note amount of material on banks that has recently been shoveled out of ditch. 1931 April
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 29:22  710-A-88 Small lateral on high fill. Imperial Irrigation District. 1931 April
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 29:23  710-A-89 A lateral, Imperial Irrigation District 1932 March 1
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 29:24  710-A-90 (2 negatives) Field ditch made with disc ridger. Agronomy Division, University Farm, Davis. 1932 April
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives, 1 print
   Scope and Content Note

   Photographer: Adams, Frank
   Physical Description: 2 negatives
   Scope and Content Note
| Box 29:27 | 710-A-94 | This picture shows the Vacanora Canal of the Baja California Canal Co. 1926 |
| Box 29:28 | 710-A-95 | Typical branch canal, Imperial Irrigation District. Fig. 2 in Bull. 21. undated |
| Box 29:30 | 710-A-97 | Fig. 11 in International Commission report, House Document 359, United States and Mexico, showing Cerro Prieto Canal, main west side of Imperial Canal in Mexico. 1928 |
| Box 29:31 | 710-A-98 | Fig. 3, page 112, House Document No. 359, International Water Commission report. Looking north across Gila River Valley, Arizona toward Muggins Mountains from highway east of Wellton. 1928 |
| Box 29:33 | 710-A-100 | Main canal, Wapato Indian Irrigation Project, Washington. 1932 |
| Box 29:34 | 710-A-101 | Main Canal, Shasta View. Malin I.D. Orland project. 1929 |
| Box 30:1 | 710-B-a-1 **Lining of Main Canal, Modesto Irrigation District, California. 1915 December 5**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
The slope of the sides was 2:1 |
| Box 30:2 | 710-B-a-2 **Concrete Lining, Morgan Fill, Turlock Irrigation District, California. 1915 December 1**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
This shows where the lining joins the retaining wall at the lower end of the fill. The curvature in the bottom lining of the fill is perceptible in this picture. The presence of this curvature allows an inspection to be made of the bottom of the lined section after the water has been turned out, in spite of the fact that pools of water are usually left in the bottom. |
| Box 30:3 | 710-B-a-3 **Concrete Inlet to Reservoir Through Mockingbird Canyon Lake Dam, Riverside, California. 1915 December 14**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 30:4 | 710-B-a-4 **Installing Concrete Side Lining, Above and Adjacent to Peaslee Fill, Turlock Irrigation District, Cal. 1915 December 1**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative  
Scope and Content Note  
This picture shows the warped transition. |
| Box 30:5 | 710-B-a-5 **Main Canal. Little Rock Creek Irrigation District, Cal. 1915 June 29**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
This section of the canal is between the cienaga and the boundary of the District. The metal flume in the background is crossing a swale. |
| Box 30:6 | 710-B-a-6 **Winters Canal, Yolo Water and Power Company, Yolo County, Cal. 1914 November 27**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
This shows the concrete lined section looking up-stream from the radial gates at the fork of Winters and Madison Canals. |
| Box 30:7 | 710-B-a-7 **Concrete-lined Main Ditch. Little Rock Creek Irrigation District, Cal. 1915 June 29**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 30:8 | 710-B-a-8 Adams Canal of the Yolo Water and Power Co., Yolo County, Cal. 1914 November 27 |
| Box 30:9 | 710-B-a-9 Turlock Canal Just Below the Heading at La Grange Dam, Cal. 1915 July 31 |
| Box 30:10 | 710-B-a-10 Heading of Modesto Canal at La Grange Dam, Tuolumne River, Cal. 1915 July 31 |
| Box 30:11 | 710-B-a-11 Concrete Ditch, Crocker-Huffman Canal, Merced, Cal. 1916 July |
| Box 30:12 | 710-B-a-12 Main Canal, Walnut Irrigation District, California. undated |
| Box 30:13 | 710-B-a-13 Lined section of south San Joaquin canal undated |
| Box 30:14 | 710-B-a-15 Lined section of south San Joaquin canal 1910 |
| Box 30:15 | 710-B-a-16 Setting concrete lining in south San Joaquin canal. undated |

Photographer:
- Hutchins, Wells A.
- Adams, Frank

Physical Description:
- 1 negative, 1 print
- 1 negative
- 1 negative, 1 print
- 4 negatives, 3 prints
- 1 negative

Scope and Content Note:
The picture, showing the concrete lined section, was taken from just below the headgate of Adams Canal. This canal supplies lands on the north side of Cache Creek in Yolo County.

On the right is the concrete retaining wall and on the left is a formation of slate rock.

This little district was organized under the original Wright Law in 1893, and is the single exception of the old Wright irrigation districts in California that has continued its organization with entire success and without any financial difficulties whatever. Possibly the secret of the success of this small enterprise lies in the fact that it never issued any bonds but has raised all of its money by water tolls and direct taxes. Another reason is that it lies in a rich and well developed section.

Photographer:
- Robertson, Ralph D.

Photographer:
- Adams, Frank

Photographer:
- Adams, Frank

Photographer:
- Adams, Frank
<table>
<thead>
<tr>
<th>Box 30:16</th>
<th>710-B-a-18 Concrete lined section of Moore Canal, Yolo Water and Power Company, looking upstream from locality of Stephens Bridge. Concrete lining installed winter of 1912-13. 1914</th>
</tr>
</thead>
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|           | Photographer: Hutchins  
|           | Physical Description: 1 negative  
|           | Scope and Content Note  |
| Box 30:17 | 710-B-a-30 Section (dry) of Turlock Canal, showing concrete lining of lower wall, Calif. undated  |
|           | Photographer:  
|           | Physical Description: 1 negative  
|           | Scope and Content Note  |
| Box 30:18 | 710-B-a-56 Los Angeles Aqueduct. Laying slabs to complete sides and laying bottom. 1910  |
|           | Photographer: Tait, C.E.  
|           | Physical Description: 1 negative  
|           | Scope and Content Note  |
| Box 30:19 | 710-B-a-58 Los Angeles Aqueduct, finished canal. 1910  |
|           | Photographer: Tait, C.E.  
|           | Physical Description: 1 negative, 3 prints  
|           | Scope and Content Note  |
| Box 30:20 | 710-B-a-61 Santa Ana Canal, Near Orange, Calif. 1913 August  |
|           | Photographer: Tait, C.E.  
|           | Physical Description: 1 negative  
|           | Scope and Content Note  |
| Box 30:21 | 710-B-a-64 Los Angeles Aqueduct. Trimming sides and placing guide boards for concrete. 1910  |
|           | Photographer: Tait, C.E.  
|           | Physical Description: 1 negative  
|           | Scope and Content Note  |
| Box 30:22 | 710-B-a-68 Concrete lining Riverside Water Co. canal. 1915 July  |
|           | Photographer: Tait, C.E.  
|           | Physical Description: 1 negative  
|           | Scope and Content Note  |
| Box 30:23 | 710-B-a-69 Oiled banks, Riverdale Water Co. Canal. 1915 July  |
|           | Photographer: Tait, C.E.  
|           | Physical Description: 1 negative, 1 print  
|           | Scope and Content Note  |
| Box 30:24 | 710-B-a-70 Lining ditch, concrete finished, Imperial Water Co. No. 3. 1915 January  |
|           | Photographer: Tait, C.E.  
|           | Physical Description: 1 negative, 1 print  
<p>|           | Scope and Content Note  |
| Box 30:25 | 710-B-a-72 Lining ditch, ready for concrete. Imperial W.Co. #3 1915 January |
| Box 30:26 | 710-B-a-73 Lining ditch, concrete poured, Imperial W.Co. #3. 1915 January |
| Box 30:27 | 710-B-a-74 Covina canal showing old cement plaster lining. 1915 |
| Box 30:28 | 710-B-a-87 Lower end of the Cascades on the Los Angeles Aqueduct, near San Fernando Reservoir, Los Angeles, Calif. 1914 December |
| Box 30:29 | 710-B-a-88 Upper end of the Cascades on the Los Angeles Aqueduct near San Fernando Reservoir, Los Angeles, Calif. 1914 December |
| Box 30:30 | 710-B-a-89 Cascades on the Los Angeles Aqueduct, near San Fernando Reservoir, Los Angeles, Calif. 1914 December |
| Box 30:31 | 710-B-a-91 Concrete Ditch, California. 1915 |
| Box 30:32 | 710-B-a-92 Laying Concrete Lining on the Los Angeles Aqueduct in Owen's River Valley, California. 1910 |</p>
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<thead>
<tr>
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<th>Main canal of the Fresno Canal and Irrigation Company, Fresno, Calif. 1914 December</th>
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<tbody>
<tr>
<td></td>
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<td>Photographer: J.T.K.</td>
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<td>Box 30:34</td>
<td>710-B-a-97</td>
<td>Curves in Riverside Water Co. canal. 1915 July</td>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box 30:35</td>
<td>710-B-a-98</td>
<td>Los Angeles Aqueduct, laying bottom and finishing sides with plaster coat. 1910</td>
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<td></td>
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<td>Photographer: Tait, C.E.</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box 30:36</td>
<td>710-B-a-99</td>
<td>Bear River Canal of Pacific Gas and Electric Company a short distance below Lake Spalding. 1918 July</td>
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<tr>
<td></td>
<td></td>
<td>Photographer: Adams, Frank</td>
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<td></td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box 31:1</td>
<td>710-B-a-102</td>
<td>Laying concrete lining in ditch. undated</td>
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<td></td>
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<td>Photographer: Adams, Frank</td>
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<tr>
<td>Box 31:2</td>
<td>710-B-a-103</td>
<td>Lined portion of south San Joaquin canal showing Oakdale canal on opposite side. undated</td>
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<td>Photographer:</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box 31:3</td>
<td>710-B-a-104</td>
<td>Lined section and spillway, South San Joaquin canal. undated</td>
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<td>Box 31:4</td>
<td>710-B-a-105</td>
<td>No. 368 - Rock and lined sections south San Joaquin canal. undated</td>
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<tr>
<td>Box 31:5</td>
<td>710-B-a-106</td>
<td>Lined section south San Joaquin canal and tunnel. undated</td>
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<td>Description</td>
<td>Photographer</td>
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</tbody>
</table>
| 31:6    | Lined portion of Clarke Colony Canal, near Greenfield 1920 September 22  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |                             |                      |                        |
| 31:7    | Concrete canal lining on fill. Lining 2 1/2" thick reinforced with 6" x 6" #10 wire mesh. Construction joints at 10'. Side slopes 3/4 to 1. Cost of this lining about 16 cents per square foot. Fresno Irrig. Dist. 1929 May 14  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |                             |                      |                        |
| 31:8    | Precast canal lining. James Irrig. Dist. V shaped ditch 2.8' deep and 10' wide on top. Lining 2" thick. Joints at 3' intervals. 1929 May 11  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |                             |                      |                        |
| 31:9    | Precast canal lining 2" thick. V shaped ditch 2.8' vertical to 5' horizontal. Top width 10'. Construction joints at 3' intervals. James Irrig. Dist. 1929 May 11  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |                             |                      |                        |
| 31:10   | Canal lining. 2 1/2" thick, reinforced with 6" x 6", #10 wire mesh. Mr. E. Sibley, Secretary, Alta Irrigation District. No contraction joints provided and small cracks have developed at about 15' intervals. A very smooth lining. 1929 May 28  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |                             |                      |                        |
| 31:11   | Concrete lined canal near diversion point at the Capay Weir on south side canal. Note fish screen in canal. Yolo Water & Power Co. 1929 April 28  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |                             |                      |                        |
| 31:12   | Canal in Porterville Clay adobe. Lining is 4" thick and reinforced 3/8" square bars at 8" centers both ways. Expansion joints at 15' intervals filled with asphalt. Alta Irrigation District. 1929 May 28  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative, 1 print  
Scope and Content Note |                             |                      |                        |
| 31:13   | Main canal above pumping plant No. 1. West Stanislaus Irrigation District. Lining 3" thick, reinforced 1/4" bars at 12" end 24". Cost of lining averaged $0.152 per square foot 1929 August  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |                             |                      |                        |
Box 31:14  710-B-a-120 Concrete lined private ditch in Turlock Irrigation District. Plain concrete lining 2” thick. 1929 August
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 31:15  710-B-a-121 to 130 Untitled undated
   Photographer: 
   Physical Description: 7 prints
   Scope and Content Note

Box 31:16  710-B-a-131 Bank lining, Plain concrete 2” thick. Modesto Irrigation District. 1930 January
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 31:17  710-B-a-132 Concrete lined canal. Lining 2” thick, not reinforced. Modesto Irrigation District. 1930 January
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 31:18  710-B-a-133 Concrete bank lining. Fresno Irrig. Dist. Slope 3/4 hor. to 1 vert.; thickness, 2 1/2”, reinforced with 4” x 8” - #13 wire mesh. 1930 January
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 31:19  710-B-a-134 Setting template and preparing canal for lining. Turlock Irrigation District. L.W. Terrell, Contractor 1930 February
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 31:20  710-B-a-135 Concrete lined canal, Turlock Irrigation District, showing frequency of contraction cracks. Lateral No. 3 below Drop No. 6. Cracks are painted with bituminous paint. Count of cracks showed 29 in 200 feet. Lining placed January 6, 1923. 1931 March
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 31:21  710-B-a-136 Concrete lined ditch for Improvement District. Turlock Irrigation District 1931 March
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note
| Box 31:22 | 710-B-a-137 **Small gunite lined lateral. Note unusual shape of cross section designed to obtain favorable hydraulic conditions with variable flow in order to prevent silt from depositing. Imperial Irrigation District 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| --- | --- |
| Box 31:23 | 710-B-a-138 **Gunited lined lateral, Imperial Irrigation District 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| Box 31:24 | 710-B-a-139 **Concrete lined canal. Santa Ana Valley Irrigation Company main canal east of Santa Ana, Calif. 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 31:25 | 710-B-a-140 **Concrete lined canal. Anaheim Union Water Company near Yorba Linda, Calif. 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 31:26 | 710-B-a-141 **Concrete lined ditch, Pleasant Valley Water Co., Porterville, capacity about 5 c.f.s. 1930 May**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note |
| Box 31:27 | 710-B-a-142 **Concrete lined canal 1916**  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 31:28 | 710-B-a-143 **Concrete lined canal in California. West Stanislaus - Irrigation District. 1929**  
Photographer: Adams, Frank  
Physical Description: 2 negatives, 1 print  
Scope and Content Note |
| Box 31:29 | 710-B-a-144 **West Stanislaus Concrete line and Main canal-looking west 1929**  
Photographer: Adams, Frank  
Physical Description: 2 negatives  
Scope and Content Note |
| Box 31:30 | 710-B-a-149 **Main canal on the Yakima Project, Washington 1932**  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
Box 31:31  710-B-a-151 Construction of reinforced concrete lined irrigation canal. Fresno Irrigation District, Fresno, Calif. 1938
   Photographer: A.J. Gerner, Fresno Irrigation District
   Physical Description: 3 prints
   Scope and Content Note

Box 31:32  710-B-a-152 Capay canal, Clear Lake Water Co. Looking downstream from Capay dam. 1939 December 05
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 negative
   Scope and Content Note

Box 31:33  710-B-a-153 Concrete lined canals in the Consolidated Irrigation District constructed by Public Works Administration. 1939 November
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives
   Scope and Content Note

Box 31:34  710-B-a-154 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. At U.S. Date Garden, Indio, Calif. Walter Reuther discussing soils in citrus orchard. 1946 March 2
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 31:35  710-B-a-155 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. U.S. Date Garden at Laboratory. 1946 March 2
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 31:36  710-B-a-156 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Two views of heavily eroded mountains north of Coachella Canal at Mixing plant northeast of Mecca. 1946 March 3
   Photographer: Brown, J.B.
   Physical Description: 2 negatives
   Scope and Content Note

Box 31:37  710-B-a-157 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Group at Coachella Canal at unfinished section northeast of Mecca. Lining operations in progress five miles upstream from this point. 1946 March 3
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note
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<tr>
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<th>File Number</th>
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<td>710-B-a-158</td>
<td>Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Coachella Canal, finished section looking west. 1946 March 3</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Box 31:39</td>
<td>710-B-a-159</td>
<td>Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Coachella Canal, finished section looking east. 1946 March 3</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Box 32:1</td>
<td>710-B-a-160</td>
<td>Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Coachella Canal - Paver, looking west. 1946 March 3</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Box 32:2</td>
<td>710-B-a-161</td>
<td>Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Coachella Canal - Views of paver looking east. 1946 March 3</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Box 32:3</td>
<td>710-B-a-162</td>
<td>Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Coachella Canal - mixer truck delivering concrete to paver. 1946 March 3</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Box 32:4</td>
<td>710-B-a-163</td>
<td>Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Coachella Canal - trimmer looking east. Works 200 yards ahead of paver. 1946 March 3</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Box 32:5</td>
<td>710-B-a-164</td>
<td>Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Carrot crop west of El Centro, Imperial Valley. 1946 March 4</td>
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<td>Photographer: Brown, J.B.</td>
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Box 32:6  710-B-a-165 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Group at Drop 5, All American Canal. (Roben, Chief Water Master). 1946 March 5  
  Photographer: Brown, J.B.  
  Physical Description: 1 negative  
  Scope and Content Note

Box 32:7  710-B-a-166 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Power Foundations at Drop 5, All American Canal. 1946 March 5  
  Photographer: Brown, J.B.  
  Physical Description: 1 negative  
  Scope and Content Note

Box 32:8  710-B-a-167 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Drop 5, All American Canal, Briar Canal Heading in distance. 1946 March 5  
  Photographer: Brown, J.B.  
  Physical Description: 1 negative  
  Scope and Content Note

Box 32:9  710-B-a-168 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. End of Briar Canal - flume is beginning of Lateral Canal. 1946 March 5  
  Photographer: Brown, J.B.  
  Physical Description: 1 negative  
  Scope and Content Note

Box 32:10  710-B-a-169 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. New River Crossing, West of Calexico. 1946 March 5  
  Photographer: Brown, J.B.  
  Physical Description: 2 negatives  
  Scope and Content Note

Box 32:11  710-B-a-170 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Group at Coachella Canal northeast of Niland. Mr. Elmer Harrog, Superintendent, Imperial Irrigation District. 1946 March 6  
  Photographer: Brown, J.B.  
  Physical Description: 1 negative  
  Scope and Content Note

Box 32:12  710-B-a-171 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Culvert for road crossing, Coachella Canal northeast of Niland. 1946 March 6  
  Photographer: Brown, J.B.  
  Physical Description: 1 negative  
  Scope and Content Note
Box 32:13 710-B-a-172 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Standard gate lifter, Imperial Irrigation District. 1946 March 7

Photographer: Brown, J.B.
Physical Description: 1 negative
Scope and Content Note
See also 710-B-a-195 for corresponding twice in use at Yuma, Bureau of Reclamation.

Box 32:14 710-B-a-173 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Tile laying machine (private contractor). 1946 March 7

Photographer: Brown, J.B.
Physical Description: 2 negatives
Scope and Content Note

Box 32:15 710-B-a-174 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Ruth Dredger cleaning canals. Only 9 now working in District, formerly 35. 1946 March 8

Photographer: Brown, J.B.
Physical Description: 2 negatives
Scope and Content Note

Box 32:16 710-B-a-175 Check gate All American Canal at Coachella Canal Heading. Trip with 7 Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. 1946 March 9

Photographer: Brown, J.B.
Physical Description: 1 negative
Scope and Content Note

Box 32:17 710-B-a-176 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Drop #2, All American Canal. 1946 March 9

Photographer: Brown, J.B.
Physical Description: 1 negative
Scope and Content Note

Box 32:18 710-B-a-177 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Looking east at Drop 3 Power House, All American Canal. 1946 March 9

Photographer: Brown, J.B.
Physical Description: 1 negative
Scope and Content Note

Box 32:19 710-B-a-178 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Looking west, Drop 3 Power House, All American Canal. 1946 March 9

Photographer: Brown, J.B.
Physical Description: 1 negative
Scope and Content Note
Box 32:20  710-B-a-179 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. De Anza Hotel, Calexico. 1946 March 10
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:21  710-B-a-180 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Desert scene enroute to Yuma (wind). 1946 March 11
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:22  710-B-a-181 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Laguna Dam. 1946 March 12
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:23  710-B-a-182 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Imperial Dam. 1946 March 12
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:24  710-B-a-183 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Trash rack at Imperial Dam. 1946 March 12
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:25  710-B-a-184 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Imperial Dam from main gate structure to desilting basins in distance. 1946 March 12
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:26  710-B-a-185 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Imperial Dam - training walls to carry water to various desilting basins. 1946 March 12
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:27  710-B-a-186 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Imperial Dam - main roller gates. 1946 March 12
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note
Box 32:28  710-B-a-187 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Imperial Dam - agitators in desilting basin. 1946 March 12
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:29  710-B-a-188 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Imperial Dam - main crest. 1946 March 12
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:30  710-B-a-189 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Imperial Dam - desilting basins. 1946 March 12
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:31  710-B-a-190 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Siphon Drop Power House - interior. 1946 March 12
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:32  710-B-a-191 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Entrance to Colorado River Siphon opposite Yuma. 1946 March 12
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:33  710-B-a-192 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Pilot Knob Drop and Wasteway. 1946 March 13
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:34  710-B-a-193 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Rockwood heading from Pilot Knob Wasteway. 1946 March 13
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note
Box 32:35
710-B-a-194 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Interior Gila #1 Pump House. 1946 March 13
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:36
710-B-a-195 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Bureau of Reclamation standard gate lifter, Yuma Project. (See picture #710-B-1-172 for Imperial Irrigation District type.) 1946 March 13
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:37
710-B-a-196 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Ditcher, Macco Co, Los Angeles. This machine operates 200 yards in advance of guniting operations. 1946 March 13
   Photographer: Brown, J.B.
   Physical Description: 2 negatives
   Scope and Content Note

Box 32:38
710-B-a-197 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Gillispie Dam on Gila River, view from highway at Gila Crossing between Gila Bend and Phoenix. 1946 March 14
   Photographer: Brown, J.B.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 32:39
710-B-a-198 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Granite Reef Dam, diversion works on Salt River for Salt River Valley Project. 1946 March 15
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 32:40
710-B-a-199 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States, Feb. 28 to Apr. 15, 1946. Salt River Valley, small drop on south flowing canal northwest of Phoenix. Slope 12 - 15 feet per mile; numerous drops in one mile of canal. 1946 March 18
   Photographer: Brown, J.B.
   Physical Description: 1 negative
   Scope and Content Note

Box 33:1
710-B-a-200 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States. Water distribution by furrows, Citrus Experiment Station, Riverside, California. 1946 March
   Photographer: Doneen, L.D.
   Physical Description: 2 negatives
   Scope and Content Note
<table>
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<tr>
<th>Box 33:2</th>
<th>710-B-a-201a710-B-a-201b710-B-a-201c710-B-a-201d710-B-a-201e Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States. Coolidge Dam, Arizona 1946 March</th>
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<td>Photographer: Doneen, L.D.</td>
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<td>Box 33:3</td>
<td>710-B-a-202 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States. Snow scene, Grass Valley, California, J.B.Brown. 1946 March 29</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Box 33:4</td>
<td>710-B-a-203 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States. Snow scene, Grass Valley, California, Quan and Yeh. 1946 March 29</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Scope and Content Note</td>
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<td>Box 33:5</td>
<td>710-B-a-204 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States. Don Pedro Dam, spillway. 1946 March 30</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Physical Description: 1 negative</td>
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<td>Box 33:6</td>
<td>710-B-a-205 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States. Don Pedro Dam, downstream face. 1946 March 30</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Box 33:7</td>
<td>710-B-a-206 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States. Don Pedro Dam, downstream face and power house. 1946 March 30</td>
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<td>Photographer: Brown, J.B.</td>
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<td>Box 33:8</td>
<td>710-B-a-207 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States. Diversion Dam, Southern Oregon. 1946 April</td>
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<td>Box 33:9</td>
<td>710-B-a-208 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States. Diversion Dam, Southern Oregon. 1946 April</td>
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<td>33:10</td>
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<td>33:17</td>
<td>710-B-a-216</td>
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Box 33:18  710-B-a-217 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States. Erosion plot, Prosser Irrigation Experiment Station, Washington. Runoff measuring equipment. 1946 April
   Photographer: Doneen, L.D.
   Physical Description: 1 negative
   Scope and Content Note

Box 33:19  710-B-a-218 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States. Equipment for measuring runoff from plots in erosion studies, Irrigation Experiment Station, Prosser, Washington. 1946 April
   Photographer: Doneen, L.D.
   Physical Description: 1 negative
   Scope and Content Note

Box 33:20  710-B-a-220 Trip with seven Chinese technicians visiting irrigation and drainage projects in Western States. Diversion Structure, Boise, Project. 1946 April
   Photographer: Doneen, L.D.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 33:21  710-B-a-221 Friant-Kern Canal just north of Kings River. 1948 November 22
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:22  710-B-a-222 Friant-Kern Canal just north of Kings River 1948 November 22
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:23  710-B-a-223 South end, Kings River Siphon, Friant-Kern Canal 3200" long, 24' 2 1/2" diameter. 1948 November 22
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:24  710-B-a-224 Through unlined cut to south end of Kings River Siphon, Friant-Kern Canal. 1948 November 22
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:25  710-B-a-225 Unlined section, Friant-Kern Canal, back of Campbell Mt. 64' on bottom. 18 mi. out of 153 mi. Friant to Kaweah R. unlined. 1948 November 22
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:26  710-B-a-226 Looking over part of Orange Cove Irrigation District line of Friant-Kern Canal about horizontally through picture. 1948 November 22
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note
Box 33:27  710-B-a-227 Friant-Kern Canal about midway between St. John River and Kaweah River. Drainage inlets for groundwater in bottom of Canal. 1948 November 22
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:28  710-B-a-229 "S" curve in Friant-Kern Canal about 1/4 mile above Kaweah R. 1948 November 22
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:29  710-B-a-230 Friant Dam Spillway. 1948 November 23
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:30  710-B-a-331 Millentson Lake, above Friant Dam, low water. 1948 November 23
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:31  710-B-a-332 Beginning of Friant-Kern Canal from Friant Drive. 1948 November 23
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:32  710-B-a-333 Upper face of Friant Dam. 1948 November 23
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:33  710-B-a-334 Lower face of Friant dam from bridge. 1948 November 23
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:34  710-B-a-335 Madera Canal short distance below Friant. 1948 November 23
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:35  710-B-a-336 Siphon on Madera Canal. 1948 November 23
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:36  710-B-a-337 Unlined portions of Madera Canal. 1948 November 23
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Inventory of the Department of Irrigation Photographs
Box 33:37 710-B-a-338 Inlet to Delta-Mendota Canal, (not yet completed?) Foggy morning. 70' wide on bottom. 1948 November 24
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:38 710-B-a-339 Section of Delta Mendota Canal above Mt. Home Siphon. 1948 November 24
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:39 710-B-a-340 Mt. Home Siphon, Delta-Mendota Canal looking south. 24' 2 1/2" diameter. 1948 November 24
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:40 710-B-a-341 Mt. Home Siphon, Delta-Mendota Canal looking north. 1948 November 24
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:41 710-B-a-342 Portion of upper 15 mile. Delta-Mendota Canal. 4600 c. fts. 1948 November 24
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:42 710-B-a-343 Portion of upper 15 miles of Delta-Mendota Canal. 48' wide on bottle. 4600 c. fts. 1948 November 24
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:43 710-B-a-344 Part of upper 15 miles of Delta-Mendota Canal. Cap. 4600 cu. ft. sec. 1948 November 24
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:44 710-B-a-345 Canal lining equipment, Delta-Mendota Canal. 1948 November 24
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:45 710-B-a-346 Finishing equipment, lining Delta-Mendota Canal. 1948 November 24
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note
Box 33:46 710-B-a-347 Equipment for spraying on Hunt is process parafine base. Delta Mendota Canal. 1948 November 24
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 33:47 710-B-a-348 Spraying on "Protex" or "Konkur" Hunt's process parafine base. Delta-Mendota Canal. 1948 November 24
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 34:1 710-B-b-1 Main Distributing Furrow in a Citrus Orchard at Fair Oaks, California, showing lateral furrows leading off on each side, also burlap protection in main furrow to prevent washing. undated
   Photographer: Adams, Frank
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 34:2 710-B-b-1a Similar to Picture No. 710-B-b-1, showing burlap protection in the main furrow, in more detail. undated
   Photographer: Adams, Frank
   Physical Description: 1 negative, 3 prints
   Scope and Content Note

Box 34:3 710-B-b-2 Azusa Irrigation Co. canal below San Gabriel Canon. Lined with boulders and cement. 1914 July
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 2 prints
   Scope and Content Note

Box 34:4 710-B-b-3 Bear Valley Mutual Water Co. canal near Redlands. Lining of cobble and cement on high grade just below canyon. 1914 September
   Photographer: Tait, C.E.
   Physical Description: 1 negative
   Scope and Content Note

Box 34:5 710-B-b-4 Water lifted by pumping plant. Newly constructed canal leading from Honey Lake, Lassen county. 1916
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 34:6 710-B-b-5 Canal lining with Koroseal, by V.H. Scott and J.H. Luthin. Location in excess spill canal of Clear Lake Water Co. Canal, southwest corner of University Farm, Davis. Cross section before cleaning. 1950 July 10
   Photographer: Scott, Verne H.
   Physical Description: 1 negative
   Scope and Content Note
Box 34:7  710-B-b-6 Canal lining with Koroseal, by V.H. Scott and J.N. Luthin. Location in excess spill canal of Clear Lake Water Co. Canal, southwest corner of University Farm, Davis. Cross section before cleaning. Same as 710-B-b-5. 1950 July 10
   Photographer: Scott, Verne H.
   Physical Description: 1 negative
   Scope and Content Note

Box 34:8  710-B-b-7 Canal lining with Koroseal, by V.H. Scott and J.N. Luthin. Location in excess spill canal of Clear Lake Water Co. Canal, southwest corner of University Farm, Davis. Preparing slopes for lining. 1950 July 10
   Photographer: Scott, Verne H.
   Physical Description: 1 negative
   Scope and Content Note

Box 34:9  710-B-b-8 Canal lining with Koroseal, by V.H. Scott and J.N. Luthin. Location in excess spill canal of Clear Lake Water Co. Canal, southwest corner of Univ. Farm, Davis. Preparing slopes for lining. 1950 July 10
   Photographer: Scott, Verne H.
   Physical Description: 1 negative
   Scope and Content Note

Box 34:10 710-B-b-9 Canal lining with Koroseal, excess spill canal of Clear Lake Water Co. Canal, southwest corner of Univ. Farm, 1st section (5') laid 6" below canal surface before backfilled. 2nd 5' section laid on surface sterilized with Borax. 1950 July 10
   Photographer: Scott, Verne H.
   Physical Description: 1 negative
   Scope and Content Note

Box 34:11 710-B-b-10 Canal lining with Koroseal, excess spill canal of Clear Lake Water Co. Canal, S.W. corner of University Farm. Finished sections. 1st section backfilled, 2nd section on surface. 1950 July 10
   Photographer: Scott, Verne H.
   Physical Description: 1 negative
   Scope and Content Note

Box 34:12 710-C-1 Applying gunite on rocky section of canal. Lindsay-Strathmore Irrigation District. 1917 August
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 34:13 710-C-2 Applying gunite on main canal, Lindsay-Strathmore Irrigation District. 1917 August
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 34:14 710-C-3 Applying gunite on main canal, Lindsay-Strathmore Irrigation District 1917 August
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note
Box 34:15  
710-C-4 Applying gunite on main canal, Lindsay-Strathmore Irrigation District 1917 August  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note

Box 34:16  
710-C-5 Applying gunite on main canal, Lindsay-Strathmore Irrigation District 1917 August  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note

Box 34:17  
710-C-6 Close view of gunite bench flume being built, Lindsay-Strathmore Irrigation District 1917 August  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note  
Picture shows forms, end of finished portion, plum bob used for trueing wall, side wall, reinforcing mesh and rods, and end of twisted bar reinforcing cross ties.

Box 34:18  
710-C-7 Digging a new lateral for Sutter-Butte Canal west of Gridley. 1917 November  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note

Box 34:19  
710-C-8 Portion of Completed Ditch Built by Buckeye Trencher. Paradise Irrigation District 1917 July  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note

Box 34:20  
710-C-9 Trenching with Buckeye Trencher for Paradise Irrigation District Pipe Line. 1917 July  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative (corner chipped)  
Scope and Content Note  
The picture shows the typical condition found in this district prior to clearing of the land.  
July, 1917.

Box 34:21  
710-C-10 Looking Toward the Rear of Buckeye Trencher, Paradise Irrigation District. 1917 July  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note  
This picture shows the rolling topography. July, 1917.

Box 34:22  
710-C-11 Close View of Trencher. Paradise Irrigation District. 1917 July  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note  
The 18-inch rule at the right indicates the size of some of the cobbles encountered by the trencher.
Box 34:23  710-C-12 **Canal construction using Fresno Scraper undated**
Photographer:
Physical Description: 1 negative
Scope and Content Note

Box 34:24  710-C-15 **Los Angeles Aqueducts. Canal excavation as left by steam shovel. 1910**
Photographer: Tait, C.E.
Physical Description: 1 negative, 1 print
Scope and Content Note

Box 34:25  710-C-17 **Excavating main canal on Durham State Land Settlement with tractor and excavating machine. 1918**
Photographer: Adams, Frank
Physical Description: 1 print
Scope and Content Note

Box 34:26  710-C-18 **Dredging a drainage canal in District 33, Butte County. 1921 Fall**
Photographer: Adams, Frank
Physical Description: 1 glass plate negative (broken), 2 prints
Scope and Content Note

Box 34:27  710-C-19 **Making ditch with excavator. Willows 1916**
Photographer:
Physical Description: 1 negative
Scope and Content Note

Box 34:28  710-C-20 **Excavator in ditch construction, near Woodland, California. 1915**
Photographer: Beckett, Samuel H.
Physical Description: 1 negative, 1 print
Scope and Content Note

Box 35:1  710-C-21 **Excavator in ditch construction, near Woodland. 1915**
Photographer: Beckett, Samuel H.
Physical Description: 1 negative
Scope and Content Note

Box 35:2  710-C-22 **Excavator in ditch construction, near Woodland. 1915**
Photographer: Beckett, Samuel H.
Physical Description: 1 negative, 1 print
Scope and Content Note

Box 35:3  710-C-23 **Excavator in ditch construction, near Woodland. 1915**
Photographer: Beckett, Samuel H.
Physical Description: 1 negative
Scope and Content Note

Box 35:4  710-C-24 **Excavator in ditch construction, near Woodland. 1915**
Photographer: Beckett, Samuel H.
Physical Description: 1 negative, 1 print
Scope and Content Note
<p>| Box 35:5 | 710-C-25 Excavator in ditch construction, near Woodland, California. 1915 |
| Box 35:6 | 710-C-26 Troweling concrete lining. Improvement District ditch. Turlock Irrigation District. 3 views. 1931 March |
| Box 35:7 | 710-C-27 Painting fresh concrete lining with &quot;Hunt Process&quot; asphaltic paint. This method of curing concrete lining was used exclusively on Improvement District and Irrigation District work in 1930-31. Turlock Irrigation District 2 views. 1931 March |
| Box 35:8 | 710-C-28 Excavating puddled ditch to final grade and shape for concrete lining. Improvement District work. Turlock Irrigation District. 1931 March |
| Box 35:9 | 710-C-29 Trimming side slopes to exact line and grade for concrete lining. Improvement District work. Turlock Irrigation District. 1931 March |
| Box 35:10 | 710-C-30 Setting grade stakes at top edges of lining by means of template set on center line grade stake. Construction of lined ditch for Improvement District, Turlock Irrigation District. 1931 March |
| Box 35:11 | 710-C-31 Puddling ditch prior to placing concrete lining. Improvement District Ditch. Turlock Irrigation District. 1931 March |
| Box 35:12 | 710-C-32 Trimming bottom of ditch to final grade for concrete lining of Improvement District ditches. Turlock Irrigation District 1931 March |</p>
<table>
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<tr>
<th>Box 35:13</th>
<th>710-C-33 Placing concrete lining in private ditch. Turlock Irrigation District 1931 March</th>
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<tr>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
<th>Box 35:14</th>
<th>710-C-34 Construction of lined ditch for improvement districts. Turlock Irrigation District (3 views) 1931 March</th>
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<tr>
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<td>Physical Description: 3 negatives, 2 prints</td>
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<th>Box 35:15</th>
<th>710-C-35 Concrete mixer used in lining ditches for improvement districts. Turlock Irrigation District. 1931 March</th>
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<tr>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 35:16</th>
<th>710-C-36 Construction of lateral on fill by means of silting in between levees. Levees placed 100 feet apart. Final grade of lateral to be several feet above top of present levees. Imperial Irrigation District. 1931 April</th>
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<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
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<table>
<thead>
<tr>
<th>Box 35:17</th>
<th>710-C-37 Constructing shallow drain with Ruth dredge, Imperial Irrigation District 1931 April</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
<th>Box 35:18</th>
<th>710-C-38710-C-39 Construction, All American Canal, Imperial Valley. 1936 August 29</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: Compton, O.C.</td>
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<td></td>
<td>Physical Description: 2 prints</td>
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<thead>
<tr>
<th>Box 35:19</th>
<th>710-C-40 Consolidated Main Canal near Sanger showing concrete lining placed winter of 1938-39 by WPA. Lining 2/10 ft. thick. Reinforced side slopes approximately 1 or 1 1/4. 1939 October 18</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
<td></td>
<td>Physical Description: 2 negatives</td>
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<td>Scope and Content Note</td>
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</table>

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<thead>
<tr>
<th>Box 35:20</th>
<th>710-C-41 Consolidated Main Canal near Sanger. Shaping canal section prior to concrete lining. Work being done by WPA force. 1939 October 18</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 negatives</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>
Box 35:21  710-C-42 Consolidated Main Canal near Sanger showing shape of canal and demolition of concrete section gate made necessary by regrading of the canal for lining. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives
   Scope and Content Note

Box 35:22  710-C-43 Consolidated Canal near Sanger. Shows shaping of canal section prior to concrete lining. Shows template used for obtaining true cross-section. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 2 negatives
   Scope and Content Note

Box 35:23  710-C-44 (a) Concrete lining of small canal lateral near Canal School east of Selma. Consolidated Irrigation District. Setting grade stakes in canal that has been puddled. Bottom of finished canal to be nearly 3 feet below bottom of puddles ditch. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 35:24  710-C-45 (b) Concrete lining of small canal lateral near Canal School east of Selma. Excavating puddled ditch to line and grade. Grade stakes for bottom of ditch set 50 feet apart in holes dug for that purpose. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 35:25  710-C-46 (c) Concrete lining of small canal lateral near Canal School east of Selma. Shaping canal to proper cross-section prior to lining. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative
   Scope and Content Note

Box 35:26  710-C-47 (d) Concrete lining of small canal lateral near Canal School east of Selma. Iron bars set to exact line and grade as shown by chalk line at bottom and top of slope. Bank then trimmed to final shape with a scraper. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 3 negatives, 1 print
   Scope and Content Note

Box 35:27  710-C-48 (e) Concrete lining of small canal lateral near Canal School east of Selma. Iron bars set to exact line and grade as shown by chalk line at bottom and top of slope. Bank then trimmed to final shape with a scraper. 1939 October 18
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 1 negative, 1 print
   Scope and Content Note
Box 35:28 710-C-49 (f) Concrete lining of small canal lateral near Canal School east of Selma. Lining side slopes. Concrete placed on bank with shovel and troweled with wooden float to a thickness of 1/10". Note use of steel band to govern thickness of lining. 1939 October 18
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 1 negative
  Scope and Content Note

Box 35:29 710-C-50 (g) Concrete lining of small canal lateral near Canal School east of Selma. Lining side slopes. Concrete placed on bank with shovel and troweled with wooden float to a thickness of 1/10". Note use of steel band to govern thickness of lining. 1939 October 18
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 2 negatives
  Scope and Content Note

Box 35:30 710-C-51 (h) Concrete lining of small canal lateral near Canal School east of Selma. Mixing crew. Concrete mix consists of 3 1/2 cu. ft. of fine gravel 1/4"-5/8", 3 1/2 cu. ft. sand up to 1/4", 1 sack cement, 2 lbs CaCl2 in solution and about 6 1/2 gal. water. Concrete crew consists of 19 men placing and mixing. 1939 October 18
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 1 negative
  Scope and Content Note

Box 35:31 710-C-52 (i) Concrete lining of small canal lateral near Canal School east of Selma. Completed section of lateral. 1939 October 18
  Photographer: Christiansen, Jerald Emmet
  Physical Description: 1 negative
  Scope and Content Note

Box 35:32 710-D-1 Oil Weed Burner, Valley Irrigation Co., Willows, Cal. 1916 May 11
  Photographer: Adams, Frank
  Physical Description: 1 negative
  Scope and Content Note
  This is used to burn the weeds in the main canals.

Box 35:33 710-D-2 Result of Canal Cleaning, Sacramento Valley Irrigation Co., Willows, Cal. 1915 May 11
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative, 1 print
  Scope and Content Note
  An oil burner was used to eradicate the weeds in this canal.

Box 35:34 710-D-3 Oil Weed Burner, Sacramento Valley Irrigation Co., Willow, Cal. 1916 May 11
  Photographer: Adams, Frank
  Physical Description: 1 negative, 2 prints
  Scope and Content Note
  This is used to burn the weeds in the main canals.

Box 35:35 710-D-4 Ditch Cleaning Machine, Marysville, California. 1916 April
  Photographer: Robertson, Ralph D.
  Physical Description: 1 negative, 2 prints
  Scope and Content Note
Box 35:36 710-D-5 Dredger Cleaning Highline Canal, Water Company No. 3, Imperial Valley, California, 1917. 1917 May 31
   Photographer: Hutchins, Wells A.
   Physical Description: 1 negative
   Scope and Content Note

Box 35:37 710-D-6 Ruth Dredger Cleaning lateral of Imperial Water Company No. 3. September 3, 1917. 1917 September 3
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 negative
   Scope and Content Note

Box 35:38 710-D-9 Canal Cleaning. Dutton Dredge, Imperial Valley, Calif. undated
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 35:39 710-D-10 Canal Cleaning. Work of V on Date Lateral, Imperial Valley, Calif. undated
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 35:40 710-D-11 Canal Cleaning. Farmers' V for cleaning ditches. Front view. Imperial Valley, Calif. undated
   Photographer: Tait, C.E.
   Physical Description: 1 negative
   Scope and Content Note

Box 35:41 710-D-12 Canal Cleaning. I.W. Co. No. 7 V, Holtville, Calif. undated
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 2 prints
   Scope and Content Note

Box 35:42 710-D-13 Canal Cleaning. I.W. Co. No. 7 V, front view, Holville, Calif. undated
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 2 prints
   Scope and Content Note

Box 35:43 710-D-15 Canal Cleaning. I.W. Co. No. 7 V, Rear view. Holtville, Calif. undated
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 2 prints
   Scope and Content Note

Box 36:1 710-D-19 Dogwood canal, Imperial Valley, cleared with V. 1915
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 1 print
   Scope and Content Note
Box 36:2  710-D-20 Chain and bucket type of dredger used to clean canals in Imperial I.D. 
undated
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 36:3  710-D-21 Canal Cleaning. Farmers' V for cleaning ditches - side view. Imperial Valley, 
California. undated
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 36:4  710-D-22 Chain and bucket type of dredger used to clean canals in Imperial I.D. 
undated
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 36:5  710-D-23 Chain and bucket type of dredger used to clean canals in Imperial I.D. 
undated
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 36:6  710-D-24 Chain and bucket type of dredger used to clean canals in Imperial I.D. 
undated
   Photographer: Adams, Frank
   Physical Description: 2 negatives
   Scope and Content Note

Box 36:7  710-D-25 "Ruth" - Dredger or Excavator on Main Canal of Imperial Water Co. No. 4, 
California. 1915
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 1 print
   Scope and Content Note
   Used for cleaning canals of medium size and laterals in Imperial Valley. These are not 
used so much as formerly.

Box 36:8  710-D-26 Gate for cleaning canal. Turlock Canal, Calif. Not a flushing gate, but an 
entrance and outlet for teams. undated
   Photographer: Adams, Frank
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 36:9  710-D-27 Hydraulic dredge below headgate, Imperial canal. 1915
   Photographer: Tait, C.E.
   Physical Description: 1 negative, 2 prints
   Scope and Content Note
<table>
<thead>
<tr>
<th>Box 36:10</th>
<th>710-D-28 Cleaning ditch with steel V and two engines. Imperial W. Co. #1. 1915</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
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<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<thead>
<tr>
<th>Box 36:11</th>
<th>710-D-30 Moss growth in North Avenue Canal. Moss gives trouble only in canals into which well water is pumped. Fresno Irrig. Dist. 1929 May 9</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td>Scope and Content Note</td>
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<thead>
<tr>
<th>Box 36:12</th>
<th>710-D-31 View of banks of small lateral after grading with rotary grader preparatory to dredging. Calipatria Division, Imperial Irrigation District. (2 views) 1931 April</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 negatives</td>
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<td>Scope and Content Note</td>
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<thead>
<tr>
<th>Box 36:13</th>
<th>710-D-32 Discing to control growth of willows and bamboo on canal banks. Growth as shown on right can be killed or materially set back in this way. Imperial Irrigation District. 1931 April</th>
</tr>
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<tr>
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<td>Scope and Content Note</td>
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<thead>
<tr>
<th>Box 36:14</th>
<th>710-D-33 Dredging small lateral with Ruth Dredger. Imperial Irrigation District. (2 views) 1931 April</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<td></td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 36:15</th>
<th>710-D-34 Large lateral, Imperial Irrigation District. Right hand bank has been recently dredged with Ruth Dredger, left hand bank not yet dredged. Note growth of grass on berm, left bank. 1931 April</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<td></td>
<td>Physical Description: 1 negative</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 36:16</th>
<th>710-D-35 Dredging large lateral with Ruth Dredger. Wheel span 36 feet. Imperial Irrigation District. 1931 April</th>
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<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<td></td>
<td>Physical Description: 1 negative</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 36:17</th>
<th>710-D-36 Pond weeds. Irrigation canal, Fresno irrigation district. Potamogeton americanus. 1936 May 29</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 negatives, 1 print</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box 36:18</td>
<td>710-D-37 Potamogeton pusillus (Slender pond-weed), irrigation canal, Fresno Irrigation District. 1936 May 29</td>
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<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
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<td>Physical Description: 1 negative</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 36:19</th>
<th>710-D-40 Cleaning canal with dredge - clam shell. Imperial Valley. 1916</th>
</tr>
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<tr>
<td></td>
<td>Photographer: Veihmeyer, Frank J.</td>
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<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<th>Box 36:20</th>
<th>710-E-2 Bank Protection below Capay Dam of Yolo Water and Power Company, on Cache Creek, California. 1914</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Photographer: J.L.K.</td>
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<tr>
<td></td>
<td>Physical Description: 1 print</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 36:21</th>
<th>710-E-3 Untitled undated</th>
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<td>Photographer:</td>
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<td>Physical Description: envelope only, no print</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 36:22</th>
<th>710-F-1a710-F-1b710-F-1c Clear Lake Canal Seepage Tests 1940 November 27</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: Givan, C.V.</td>
</tr>
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<td></td>
<td>Physical Description: 3 negatives</td>
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<tr>
<th>Box 36:23</th>
<th>710-F-1d710-F-1e710-F-1f Clear Lake Canal Seepage Tests 1940 November 27</th>
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<td>Photographer: Givan, C.V.</td>
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<td>Physical Description: 3 negatives</td>
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<tr>
<th>Box 36:24</th>
<th>710-F-1g Clear Lake Canal Seepage Tests 1940 November 27</th>
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<tr>
<td></td>
<td>Photographer: Givan, C.V.</td>
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<td>Physical Description: 1 negative</td>
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<td>Scope and Content Note</td>
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<td>g. East end, Section 4.</td>
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<thead>
<tr>
<th>Box 36:25</th>
<th>710-F-2 View of experimental section about 5 miles west of Woodland. Experiments being conducted to determine effect of salt treatment of canal banks and bottom on seepage loss on canals. 1000' section of this canal was divided into 10, 100' ponds by means of 11 water-tight bulk heads. This view shows &quot;upper&quot; pond No. 1 during first trial to determine rate of loss of water before treatments were started. Note that water level has dropped about a foot in depth from upper limit as noted from line of wet soil on bank. 1940 October 28</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: W.R. Ames Co.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td>Scope and Content Note</td>
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</table>
Box 36:26  710-F-3 Canal seepage experiments, near Woodland. View shows close-up of one of the bulk heads and inlet pipes by which water was admitted to canal from 10" surface pipe laid in trench along canal bank as shown in picture 710-F-4. 1940 October 28
   Photographer: W.R. Ames Co.
   Physical Description: 1 negative
   Scope and Content Note

Box 36:27  710-F-4 Canal seepage experiments, near Woodland. 10" surface pipe in trench along canal bank to admit water to ponds for experiments. 1940 October 28
   Photographer: W.R. Ames Co.
   Physical Description: 1 negative
   Scope and Content Note

Box 36:28  710-F-5 Canal seepage experiments, near Woodland. Water being admitted to pond. 1940 October 28
   Photographer: W.R. Ames Co.
   Physical Description: 1 negative
   Scope and Content Note

Box 36:29  710-F-6 Canal seepage experiments, near Woodland. Water level in pond in foreground has receded about 2 to 3" from highest level; pond immediately below being filled. 1940 October 28
   Photographer: W.R. Ames Co.
   Physical Description: 1 negative
   Scope and Content Note

Box 36:30  710-F-7 Canal seepage experiments near Woodland. Method of determining rate of seepage loss from canals. Hook gauge readings from bench mark on bulk head were taken at 15 to 30 minute intervals during entire period that water remained in pond which varied from about 8 to 14 hrs. for the different ponds. 1940 October 28
   Photographer: W.R. Ames Co.
   Physical Description: 1 negative
   Scope and Content Note

Box 36:31  710-F-8 Canal seepage experiments, near Woodland. Original condition of canal banks which were covered with fairly heavy growth of Bermuda grass. Bottom was cleaned and covered with a few inches of water. Pond is beginning to fill. 1940 October 28
   Photographer: W.R. Ames Co.
   Physical Description: 1 negative
   Scope and Content Note

Box 36:32  710-F-9 Canal seepage experiments near Woodland. Determining elevation of water surface in second run which was continued the following day. 1940 October 28
   Photographer: W.R. Ames Co.
   Physical Description: 1 negative
   Scope and Content Note
Box 36:33  710-F-10 Canal seepage experiments near Woodland. Appearance of canal after 3/4 lb. per sq. ft. coarse salt was applied to both bottom and sides of canal in pond 8. The salt treatment was extended only to high water line in canal. Fairly uniform distribution was obtained by dividing the ponds into 10-foot sections and applying proper amount of salt to each section. 1940 October 29
   Photographer: W.R. Ames Co.
   Physical Description: 1 negative

Scope and Content Note

Box 36:34  710-F-11 Canal seepage experiments, near Woodland. 3/4 lb. per sq. ft. of salt applied to narrow strip along canal bank only. 1940 October 28
   Photographer: W.R. Ames Co.
   Physical Description: 1 negative

Scope and Content Note

Box 36:35  710-G-1 All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Storm water spill into the All American Canal. 1937 March 9
   Photographer: Adams, Frank
   Physical Description: 2 negatives, 1 print

Scope and Content Note

Box 36:36  710-G-2 All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Overpass for storm water. 1937 March 9
   Photographer: Adams, Frank
   Physical Description: 1 negative, 1 print

Scope and Content Note

Box 36:37  710-G-3 All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Construction of an overpass for storm water. 1937 March 9
   Photographer: Adams, Frank
   Physical Description: 1 negative

Scope and Content Note

Box 36:38  710-G-4 All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Construction of an overpass for storm water. 1937 March 9
   Photographer: Adams, Frank
   Physical Description: 1 negative, 1 print

Scope and Content Note

Box 36:39  710-G-5 All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Agitator in the settling basins at the head of the new A.A.C. 1937 March 9
   Photographer: Adams, Frank
   Physical Description: 1 negative, 1 print

Scope and Content Note

Box 36:40  710-G-6 All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Head work structures at All American Canal, Colorado River, California side. 1937 March 9
   Photographer: Adams, Frank
   Physical Description: 1 negative, 1 print

Scope and Content Note
| Box 36:41 | 710-G-7 | All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Head work structures at All American Canal, Colorado River, California side. 1937 March 9 |
| Box 36:42 | 710-G-8 | All American Canal trip and Imperial Dam trip, Mar. 9, 1937. All American Canal near highway. 1937 March 9 |
| Box 36:43 | 710-G-9 | All American Canal trip and Imperial Dam trip, Mar. 9, 1937. Sand dunes near highway near Holtville and Yuma. 1937 March 9 |
| Box 37:1 | 710-G-10 | Trip beginning February 9, 1941 - All American Canal, Imperial Valley, and Yuma Mesa. All-American Canal from No. 3 power house. 1941 February 9 |
| Box 37:2 | 710-G-11 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. No. 3 power house, All-American Canal. 1941 February 9 |
| Box 37:3 | 710-G-12 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. All-American Canal below No. 3 power house. 1941 February 9 |
| Box 37:4 | 710-G-13 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Up All-American Canal at highway crossing. 1941 February 9 |
| Box 37:5 | 710-G-14 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Down All-American Canal at highway crossing. 1941 February 9 |
| Box 37:6 | 710-G-15 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Headgate of Coachella branch canal. 1941 February 9 |
Box 37:7 710-G-16 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Drop at head of Coachella branch canal. 1941 February 9
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 37:8 710-G-17 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Up All-American Canal from head of Coachella branch. 1941 February 9
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 37:9 710-G-18 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Coachella Branch Canal. 1941 February 9
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 37:10 710-G-19 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Mesa on west side of head of Coachella branch canal. 1941 February 9
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 37:11 710-G-20 Trip beginning February 9, 1941 All-American Canal, Imperial Valley, and Yuma Mesa. Alfalfa on Yuma Mesa Experiment Farm. 1941 February 9
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 37:12 710-G-21 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Alfalfa on Yuma Mesa Experiment Farm. 1941 February 9
   Photographer: Adams, Frank
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 37:13 710-G-22 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. All-American Dam on Colorado River. 1941 February 9
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 37:14 710-G-23 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. General view of settling basin, head of All-American Canal. 1941 February 9
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note
<table>
<thead>
<tr>
<th>Box</th>
<th>Description</th>
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</thead>
</table>
| 37:15 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Near head of All-American Canal showing channel leading to settling basins. 1941 February 9  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| 37:16 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Close-up All-American Dam across Colorado River. 1941 February 9  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| 37:17 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Close-up of control works, head of All-American Canal. 1941 February 9  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| 37:18 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Channel between two of settling basins at head of All-American Canal. 1941 February 9  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| 37:19 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Settling basins, head of All-American Canal. 1941 February 9  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| 37:20 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Settling basins, head of All-American Canal. 1941 February 9  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| 37:21 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. One of the overhead passes for storm water on All-American Canal above Yuma. 1941 February  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| 37:22 | Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. All-American Canal above Yuma. 1941 February 9  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 37:23 | 710-G-32 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. All-American Canal above Yuma. 1941 February 9  
Photographer: Adams, Frank  
Physical Description: 2 negatives  
Scope and Content Note |
| Box 37:24 | 710-G-33 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. All-American Canal above Yuma. 1941 February 9  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 37:25 | 710-G-34 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. No.3 power house on All-American Canal. 1941 February 9  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 37:26 | 710-G-35 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. New river crossing, All-American Canal. 1941 February 9  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 37:27 | 710-G-36 Trip beginning February 9, 1941 - All-American Canal, Imperial Valley, and Yuma Mesa. Canal above new river crossing All-American Canal. 1941 February 9  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 37:28 | 710-H-1 Colorado River Aqueduct trip, Frank Adams. Kajaloo Dam. 1937 March 10  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 37:29 | 710-H-2 Colorado River Aqueduct trip, Frank Adams, March 10. Construction scene on Kajaloo reservoir. 1937 March 10  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 37:30 | 710-H-3 Colorado River Aqueduct trip, Frank Adams, March 10, 1937. Construction scene at Kajaloo reservoir. 1937 March 10  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
Photographer: Adams, Frank  
Physical Description: 1 negative, 4 prints  
Scope and Content Note |
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<tr>
<th>Box 37:32</th>
<th>710-H-5 Colorado River Aqueduct Trip, March 10, 11, 1937. Part of lined portion of aqueduct. 1937 March 10</th>
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<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<td>Box 37:33</td>
<td>710-H-6 Colorado River Aqueduct Trip, March 10, 11, 1937. Lining canal on the Colorado River Aqueduct. 1937 March 10</td>
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<td>Box 37:34</td>
<td>710-H-7 Colorado River Aqueduct Trip, March 10, 11, 1937. Lining aqueduct. 1937 March 10</td>
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<td>Photographer: Adams, Frank</td>
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<td>Photographer: Adams, Frank</td>
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<td>Photographer: Adams, Frank</td>
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<td>Box 37:37</td>
<td>710-H-10 Colorado River Aqueduct Trip, March 10, 11, 1937. Construction of concrete pipe. 1937 March 10</td>
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<td>Box 37:38</td>
<td>710-H-11 Colorado River Aqueduct Trip, March 10, 11, 1937. Construction of twin siphons. 1937 March 10</td>
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<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box 37:39</td>
<td>710-H-12 Colorado River Aqueduct Trip, March 10, 11, 1937. Construction of twin siphons. 1937 March 10</td>
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<td>Photographer: Adams, Frank</td>
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<td>Box 37:40</td>
<td>710-H-13 Colorado River Aqueduct Trip, March 10, 11, 1937. Main pipe line on the first pumping lift on Colorado River. S. H. Finley standing on pipe. 1937 March 10</td>
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<td>Photographer: Adams, Frank</td>
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<td>Physical Description: 1 negative, 5 prints</td>
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<td>Scope and Content Note</td>
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| Box 37:41 | 710-H-14 **Colorado River Aqueduct Trip, March 10, 11, 1937. Excavation work at Parker Dam. 1937 March 10**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 37:42 | 710-H-15 **Colorado River Aqueduct Trip, March 10, 11, 1937. Excavation work at Parker Dam. 1937 March 10**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 37:43 | 710-H-16 **Colorado River Aqueduct Trip, March 10, 11, 1937. Colorado River near Parker Dam. 1937 March 10**  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 37:44 | 710-H-17 **Colorado River Aqueduct Trip, March 10, 11, 1937. Construction of main pumping plant at Colorado River of the Colorado River Aqueduct. 1937 March 10**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 2 prints  
Scope and Content Note |
| Box 37:45 | 710-H-18 **Colorado River at intake of pumping plant. Colorado River Aqueduct trip, Mar. 10, 11, 1937. 1937 March 10**  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 37:46 | 710-H-19 **Colorado River Aqueduct trip, Mar. 10, 11, 1937. Construction camp along Colorado River. 1937 March 10**  
Photographer: Adams, Frank  
Physical Description: 1 negative  
Scope and Content Note |
| Box 37:47 | 710-H-20 **Colorado River Aqueduct trip, Mar. 10, 11, 1937. Construction of settling basin on the Colorado River Aqueduct. 1937 March 10**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 3 prints  
Scope and Content Note |
| Box 37:48 | 710-H-21 **Colorado River Aqueduct trip, Mar. 10, 11, 1937. Similar to 710-H-20, Construction of settling basin on the Colorado River Aqueduct. 1937 March 10**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
Box 37:49  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 37:50  
710-H-23 **Colorado River Aqueduct Trip, Mar. 10, 11, 1937. Construction of the pumping plant, Colorado River Aqueduct. March 10**  
Photographer: Adams, Frank  
Physical Description: 2 negatives, 1 print  
Scope and Content Note

Box 37:51  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 37:52  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 38:1  
720-2 **Reservoir of Sam Skaggs, Madera, California. February 29**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
The wave-break on the east and south sides of the reservoir is shown here. The hardest winds are from the northwest and consequently it is often considered necessary in this section to provide a wave-break in only the southeast corner. This consists merely of a solid wooden fence built along the tow or inner slope. One of the outlets is shown in the center of the picture.

Box 38:2  
720-5 **Pulaski's Reservoir, Partly Constructed, Madera, California. February 29**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative  
Scope and Content Note

Box 38:3  
720-6 **Reservoir of Wolters Bros., Showing Wave-Break, Madera, Cal. February 29**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
This brush protection against wave action extends entirely around the inside slope and consists of a wire fence with heavy posts, back-filled with apricot cuttings. It forms one of the most effective wavebreaks found in this section. In the northeast corner, on the right, is shown the concrete structure which takes the place of an inlet from the pumping plant and an outlet when the large head of water provided by the reservoir is taken for the lower lands are being irrigated, an outlet about one-half way down the left hand bank is used.
720-7 **Reservoir of Jos. Mathauser, Concrete-Lined, Orland, Cal. 1916 March 7**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note  
This lining is 3 to 4 inches thick of a 1:4 or 1:5 mixture of concrete and cost $485.00 or 30 cents per square yard. A lining of some sort is necessary in this section because of the very porous nature of the gravelly soil type. One of the two outlets to the reservoir is shown on the right.

720-8 **Reservoir of G.W. Cummings, Fairmead, California. 1916 March 2**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note

720-9 **Pumping Plant and Reservoir, Fairmead Colony, Madera County, California. 1915 February 6**  
Photographer: Hutchins, Wells A.  
Physical Description: 1 negative, 1 print  
Scope and Content Note

720-13 **Eucalyptus Reservoir, Cuyamaca Water System, San Diego County 1918 January**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 2 prints  
Scope and Content Note

720-14 **Portion of Basin of Kings River to be covered by Pine Flat Reservoir. 1917 August**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note

720-15 **East side of canyon at damsite of proposed Peete's Valley Reservoir for Honey Lake Valley Irrigation, Lassen Co., Cal. 1917 July**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note

720-16 **Proposed damsite, Red Rock Reservoir, Southern Lassen Irrigation District, California. 1917 September**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note  
A dam 130 feet high is, at this point, estimated to give a storage capacity in Red Rock Creek Valley of 100,000 acre-feet to be filled mainly from Long Valley and Last Chance Creeks.

720-17 **Lands to be flooded by Baxter Creek Irrigation District Reservoir on Baxter Creek, Lassen County, Cal. 1917 July**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note  
The dam crosses the valley a little below the left edge of the picture.
Box 38:12 720-18 Portion of Basin, Proposed Last Chance Reservoir, Southern Lassen Irrigation District, Cal. 1917 September
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 38:13 720-19 Proposed damsite for Last Chance Reservoir, Southern Lassen Irrigation District, Cal. 1917 September
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative (corner chipped), 1 print
   Scope and Content Note

Box 38:14 720-20 Inlet to reservoir at Booster Pumping plant No. 1 Terra Bella Irrigation District. August 1917. 1917 August
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 38:15 720-21 Small earthen reservoir about one mile east of Radnor Station on the Southern Pacific 1917 November
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note
   This reservoir is about 100 by 120 feet and has a depth of about 5 feet, inside slope of one-half vertical and one horizontal, and an outside slope of one vertical to one and one-fourth horizontal.

Box 38:16 720-22 Eagle Lake, Lassen Country, proposed to be utilized for Honey Lake Irrigation District, Cal. 1917 September
   Photographer: Adams, Frank
   Physical Description: 2 glass plate negatives, 1 print
   Scope and Content Note
   In the report of Engineer W. L. Wales of Honey Lake Valley District, it is proposed by means of a tunnel outlet to control the elevation of Eagle Lake as a reservoir supply under a difference in elevation of eighty-nine feet.

Box 38:17 720-23 Echo Lake Reservoir of the Western States Gas and Electric Company. 1918 October
   Photographer: F.G.V.
   Physical Description: 1 glass plate negative (chipped corner), 1 print
   Scope and Content Note

Box 38:18 720-24 Sly Park Reservoir and Dam Site looking down stream toward dam site. El Dorado County. 1918 October
   Photographer: F.G.V.
   Physical Description: 1 glass plate negative (broken), 4 prints
   Scope and Content Note
720-25 Church Reservoir site for the proposed irrigation district for lands in the vicinity of Placerville. 1918 October
   Photographer: F.G.V.
   Physical Description: 1 glass plate negative (broken), 4 prints
   Scope and Content Note

720-26 Dam Site for the proposed Sly Park Reservoir to store water for proposed irrigation district in vicinity of Placerville. Looking up stream toward dam site on Park Creek. 1918 October
   Photographer: F.G.V.
   Physical Description: 1 glass plate negative, 4 prints
   Scope and Content Note

720-27 Echo Lake Reservoir of the Western States Gas and Electric Company near Placerville. 1918 October
   Photographer: F.G.V.
   Physical Description: 1 glass plate negative, 3 prints
   Scope and Content Note
   Shows rock fill dam in foreground. This is in the Nevada drainage area and simply collects the run-off from a limited water shed and is filled largely by melted snow. The dam was constructed about 1876 for mining purposes. A short flume and tunnel diverts the water over the divide into the south fork of the American River.

720-28 Dam site for a proposed reservoir known as Granite Basin Reservoir, on Camp Creek tributary to the Consumnes River. 1918 October
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

720-29 Sly Park Reservoir site looking into basin from dam site (Placerville) 1918 October
   Photographer: Veihmeyer, Frank J.
   Physical Description: 2 glass plate negatives, 4 prints
   Scope and Content Note

720-30 Reservoir at University Farm, Davis. undated
   Photographer: 
   Physical Description: 4 negatives, 10 prints
   Scope and Content Note

720-33 Circular Reservoir along the Highway near Claremont. 1918 May
   Photographer: Adams, Frank
   Physical Description: 2 prints
   Scope and Content Note

720-34 Circular Concrete Reservoir along the highway near Claremont. 1918 May
   Photographer: Adams, Frank
   Physical Description: 2 prints
   Scope and Content Note
Series 2. Negatives and prints 1895-1952

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<tr>
<th>Box 38:27</th>
<th>720-40 Auburn City Masonry Lined Reservoir, Auburn, Calif. 1908</th>
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<tr>
<th>Box 39:1</th>
<th>720-41 Reservoir near Ice Plant, Pomona, Calif. Built of field stones laid up in mortar. 1907</th>
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<tr>
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<tr>
<th>Box 39:2</th>
<th>720-42 Brush protection against wave action, Silver Lake Reservoir, Los Angeles, Calif. undated</th>
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<tr>
<th>Box 39:3</th>
<th>720-43 Reinforced concrete Reservoir with concrete cover, City Water Supply, Whittier, Calif. 1907</th>
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<tr>
<th>Box 39:4</th>
<th>720-44 Earthen reservoir, Whittier, Calif. 1907</th>
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<td>Photographer: O.W.B.</td>
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<tr>
<th>Box 39:5</th>
<th>720-45 Ivanhoe Reservoir, showing oiled slope of dam, Los Angeles City Water Supply, Los Angeles, Calif. 1907</th>
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<tr>
<th>Box 39:6</th>
<th>720-46 Storm erosion of reservoir banks, Whittier, Calif. undated</th>
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<th>Box 39:7</th>
<th>720-47 Concrete Reservoir and pumping station, controlling water supply of Monrovia, Calif. 1903 August</th>
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<tbody>
<tr>
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<td>Photographer: Stover, Arthur P.</td>
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<tr>
<th>Box 39:8</th>
<th>720-48 Equalizing reservoir, Redlands, Calif. 1905</th>
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<td>Photographer: Adams, Frank</td>
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<td>Box 39:9</td>
<td>720-49 Circular Concrete Reservoir, near Pomona, California. 1910</td>
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<td>Photographer: Tait, C.E.</td>
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<th>Box 39:10</th>
<th>720-50 Constructing Reservoir near Claremont, Calif. undated</th>
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<tr>
<th>Box 39:11</th>
<th>720-51 Upper reservoir Covina Irrigation Co. Sloping banks with concrete lining. 1914 August</th>
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<tbody>
<tr>
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<td>Photographer: Tait, C.E.</td>
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<tr>
<th>Box 39:12</th>
<th>720-53 Lake Lee, reservoir of Temescal Water Co. Concrete wall supported by earth fill. 1915 April</th>
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<tr>
<th>Box 39:13</th>
<th>720-54 Cobblestone reservoir and pumping plant of Dr. C.N. Johnson, near Claremont. 1910</th>
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<tr>
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<tr>
<th>Box 39:14</th>
<th>720-55 Yorba Linda concrete reservoir, Orange Co., Calif. Shaped to conform to top of hill. Filled by pumps. 1915 April</th>
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<td>Physical Description: 1 negative, 2 prints</td>
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<th>Box 39:16</th>
<th>720-57 Constructing reservoir near Claremont, Calif. undated</th>
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<tbody>
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<td>Photographer: Tait, C.E.</td>
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<td>Physical Description: 1 negative, 1 print</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 39:17</th>
<th>720-58 Concrete reservoir and orange orchard near Pomona, Calif. undated</th>
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<td></td>
<td>Photographer: Tait, C.E.</td>
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<td>Physical Description: 1 negative, 1 print</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 39:18</th>
<th>720-59 Concrete reservoir of Harrison Albright near La Mesa, San Diego Co. 1914 March</th>
</tr>
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<tbody>
<tr>
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<td>Photographer: Tait, C.E.</td>
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<td>Physical Description: 1 negative, 2 prints</td>
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Box 39:19
720-60 Lower reservoir, Covina Irrigation Co. Circular concrete wall. 1914 August
  Photographer: Tait, C.E.
  Physical Description: 1 negative, 1 print
  Scope and Content Note

Box 39:20
720-61 Concrete reservoir and pumping plant near Claremont, Calif. undated
  Photographer: Tait, C.E.
  Physical Description: 1 negative
  Scope and Content Note

Box 39:21
720-62 Reservoir near Lordsburg, Calif. 1910
  Photographer: Tait, C.E.
  Physical Description: 1 negative
  Scope and Content Note

Box 39:22
720-63 Richards Reservoir near Lordsburg, Calif. 1910
  Photographer: Tait, C.E.
  Physical Description: 1 negative
  Scope and Content Note

Box 39:23
720-64 Pumping plant, reservoir and orchard near San Dimas, Calif. undated
  Photographer: Tait, C.E.
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 39:24
720-67 Reservoir Basin Meselbeck Dam, Happy Valley Irrigation District. 1919
  October 31
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative, 2 prints
  Scope and Content Note
  In process of clearing as seen from the dam. The streams draining this water shed are
  Forester and Hoover Creeks.

Box 39:25
720-68 Lake Spalding from Emigrant Gap showing character of water shed. undated
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative, 1 print
  Scope and Content Note

Box 39:26
720-69 Grant Lake on Rush Creek above Mona Lake. undated
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative, 4 prints
  Scope and Content Note
  Used as storage by Southern Sierras Power Company.

Box 39:27
720-70 Second View of Echo Lake. undated
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative, 1 print
  Scope and Content Note
  See picture 720-65
| Box 39:28 | 720-71 **Grant Lake below power house, Mono County. 1918 August**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative (broken), 1 print  
Scope and Content Note |
| Box 39:29 | 720-72 **Automatic control valves on intake to regulating reservoir. Vista Irrigation District, Vista, Calif. 1931 April**  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 39:30 | 720-73 **Farm reservoir, Lyons ranch, Dixon 1931 August**  
Photographer: Givan, C.V.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 39:31 | 720-74 **California State Nursery on highway between Sacramento and Davis 1931**  
Photographer: Givan, C.V.  
Physical Description: 3 negatives  
Reservoir - concrete lined. (3 views)  
Scope and Content Note |
| Box 39:32 | 720-75 **Highway in San Diego County passing over reservoir site undated**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 2 prints  
Scope and Content Note |
| Box 39:33 | 720-76 **Early photograph of irrigation reservoir, University Farm, Davis, Division of Irrigation Investigations and Practice. undated**  
Photographer:  
Physical Description: 1 glass plate negative (broken)  
Scope and Content Note  
See also 720-30, 31, and 32 |
| Box 39:34 | 720-77 **Domestic water supply. Melorland Experiment Station, Victor Valley. 1917**  
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
| Box 39:35 | 720-78 **Domestic water supply, Imperial Valley. 1917**  
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 negative  
Scope and Content Note |
| Box 39:36 | 720-79 **Wheatley reservoir, Victor Valley. Inside measurements: length, 41.22'; width, 12.80'; depth, about 8'. 1917**  
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 negative, 1 print  
Scope and Content Note |
Box 39:37  720-80-a720-80-b **Rolling clay lining on reservoir, Davis. 1943 November 5**
  Photographer: Veihmeyer, Frank J.
  Physical Description: 2 negatives
  Scope and Content Note

Box 39:38  720-81 **Guniting of reservoir, (Truck Crops) by Johnson Western Co. University Farm, Davis, August 17, 1948. 1948 August 17**
  Photographer: Marr, J.C.
  Physical Description: 1 negative
  Scope and Content Note

Box 39:39  720-82 **Guniting of reservoir, (Truck Crops) by Johnson Western Co, University Farm, Davis 1948 August 17**
  Photographer: Marr, J.C.
  Physical Description: 1 negative
  Scope and Content Note

Box 39:40  720-83 **Guniting of reservoir, (Truck Crops) by Johnson Western Co., University Farm, Davis 1948 August 17**
  Photographer: Marr, J.C.
  Physical Description: 2 negatives, 1 print
  Scope and Content Note

Box 40:1  725-A-a-1a725-A-a-1b725-A-a-1c **Putah Creek Studies 1936 August 24**
  Photographer: Johnston, C.N.
  Physical Description: 4 negatives, 1 print
  Scope and Content Note
  (a) Flowing stream above basin of advancing water on Putah Creek above Winters 3/4 mi.
  (b) Advancing face of Putah Creek above Winters bridge 3/4 mi. Stakes placed at edge of
tongue of water. (c) Side of bank south side Putah creek just W. of Davis' well on Spark's
land. Shows strata exposed. Pine cone in foreground on cemented sandy clay followed in
survey.

Box 40:2  725-A-a-2a725-A-a-2b725-A-a-2c **Putah Creek studies. 1936 August 27**
  Photographer: Johnston, C.N.
  Physical Description: 3 negatives
  Scope and Content Note
  (a) Dry pool downstream from advancing water face Putah Creek, 3/4 mi. above Winters.
  Was full to depth 18" 8/24/36. (b) Advancing water face Putah Creek. Looking
downstream from point 200' above picture (c). Shows receding water as of this date. (c)
Advancing face of Putah Creek above Winters 3/4 mi. Double row stakes in foreground.
Near row placed 2 P.M. 8/25/36. Inner row placed 11 A.M. 8/24/36. Picture taken 2 P.M.
8/27/36 showing recession of water due to pumping starting in area.

Box 40:3  725-A-a-3a725-A-a-3b **Putah Creek studies. 1936 August 24**
  Photographer: Johnston, C.N.
  Physical Description: 2 negatives
  Scope and Content Note
  a. Spring on Putah back of Spark's (Smiling Pool) Snag on right hand center picture has
B.M. for water levels. b. "Smiling Pool" near Sparks' south bank Putah Creek. SHOWING
changing water levels in pool lower foreground. Also shows snag in left hand upper corner
where B.M. placed for water level record. Taken standing just above 2 cottonwood trees,
south bank. (1 dead).
Box 40:4  725-A-a-4b Putah Creek studies. 1936 August 24
Photographer: Johnston, C.N.
Physical Description: 2 negatives
Scope and Content Note
a. Out flow from "Smiling Pool" by Sparks' ranch, Winters. Flow 150 g.p.m. b. View
downstream Putah Creek from Winters Bridge R.R. Shows pipe in center line creek, just
below center line print, where dam to be installed.

Box 40:5  725-A-a-5b Putah Creek studies. 1937 February 14
Photographer: Johnston, C.N.
Physical Description: 2 negatives
Scope and Content Note
a. 10 A.M. Dark spot on pole left hand center sheet 6-8" above water line locates high
water line this date. Flood crest 2/4/37 about 3' higher. Golf course bridge. b. 2 P.M.
Shows recession waters since 10 A.M.

Box 40:6  725-A-a-6b Putah Creek studies. 1937 February 14
Photographer: Johnston, C.N.
Physical Description: 2 negatives
Scope and Content Note
a. Putah Creek at 10 A.M. view upstream from north bank at north end bridge near golf
course. b. Putah Creek, farm branch. Flowing water 10 A.M.

Box 40:7  725-A-a-7c Putah Creek studies 1936 September 7
Photographer: Johnston, C.N.
Physical Description: 3 negatives
Scope and Content Note
c. Dam construction Putah Creek at Winters.

Box 40:8  725-A-a-8c Putah Creek studies. 1936 September 2
Photographer: Johnston, C.N.
Physical Description: 3 negatives
Scope and Content Note
a. Putah Creek viewed upstream. Shows locations advancing face flow as of 8/24/36 and
dry conditions as of this date. Pump-in vicinity taking all flow. b. Putah Creek. View of
Bigelow Power pole. Taken looking across station no. 3 of survey levels. c. Putah creek.
View downstream Winters R.R. bridge toward dam construction.

Box 40:9  725-A-a-9 Putah Creek gauging station. Shows high water line of flood Feb. 4, 1937 as
light streak in grass right hand side on bank. Trash accumulated on platform at
gauge. Indicates gauge not any too high. 1937 February 15
Photographer: Johnston, C.N.
Physical Description: 1 negative
Scope and Content Note
Box 40:10  
725-A-a-10 High water line Putah Creek 2-4-37. Location first road W. Sparks’ estate south side creek. HWNW 23 T8 NRlW. Can in center line road locates point to which levels were lined in fall 1936. This point 1.5ft. below high water line. 1937 February 15  
  Photographer: Johnston, C.N.  
  Physical Description: 1 negative  
  Scope and Content Note

Box 40:11  
  Photographer: Johnston, C.N.  
  Physical Description: 1 negative  
  Scope and Content Note

Box 40:12  
725-A-a-12 U.S.G.S. aging station in Putah Creek Canyon, 10 miles west of Winters. Molenaur pointing to high water mark on register shelter. 1937 December 12  
  Photographer: Johnston, C.N.?  
  Physical Description: 1 negative, 1 print  
  Scope and Content Note

Box 40:13  
725-A-a-13 View across creek Marden Wilbur’s ranch, S.E. of Davis. Water beginning to trickle over levee. 1937 December 11  
  Photographer:  
  Physical Description: 1 negative  
  Scope and Content Note

Box 40:14  
725-A-a-14 Putah Creek near golf course. Looking south on county road, 12 P.M. 1937 December 11  
  Photographer: Johnston, C.N.?  
  Physical Description: 1 negative  
  Scope and Content Note

Box 40:15  
  Photographer: Johnston, C.N.?  
  Physical Description: 1 negative  
  Scope and Content Note

Box 40:16  
725-A-a-16 Putah Creek looking down stream from near the R.R. bridge. Note floating driftwood. 1937 December 11  
  Photographer:  
  Physical Description: 3 negatives, 2 prints  
  Scope and Content Note

Box 40:17  
725-A-a-17 Water wells on University Farm. 1940 January  
  Photographer: Johnston, C.N. (Weston)  
  Physical Description: 2 negatives, 1 print  
  Scope and Content Note  
  Slide no. G 1337
Box 40:18  725-A-a-18 Water levels in deep and shallow wells on University Farm. 1930-1933. 1940 January
Photographer: Johnston, C.N. (Weston)
Physical Description: 2 negatives, 1 print
Scope and Content Note
Slide no. G 1338

Box 40:19  725-A-a-19 Water levels in deep and shallow wells on University Farm. 1936, 1937. 1940 January
Photographer: Johnston, C.N. (Weston)
Physical Description: 2 negatives, 2 prints
Scope and Content Note
Slide no. 1340 G

Box 40:20  725-A-a-20 Water levels in deep and shallow wells on University Farm, 1936-1937. 1940 January
Photographer: Johnston, C.N. (Weston)
Physical Description: 1 negative, 1 print
Scope and Content Note
Slide no. G 1340

Box 40:21  725-A-a-21 Groundwater level contours, Putah Creek Cone, from both deep and shallow wells. Fall, 1936. 1940 January
Photographer: Johnston, C.N. (Weston)
Physical Description: 1 negative, 1 print
Scope and Content Note
Slide no. G 1341

Box 40:22  725-A-a-22 Power consumption-seasonal pumping drawdown curve for Dixon area. 1940 January
Photographer: Johnston, C.N. (Weaver)
Physical Description: 1 negative, 1 print
Scope and Content Note
Slide no. G 1342

Box 41:1  725-A-b-1 Paconia creek below canyon, Los Angeles Co., Calif. 1915 February
Photographer: Tait, C.E.
Physical Description: 1 negative, 2 prints
Scope and Content Note

Box 41:2  725-A-b-2 San Antonio Wash, Calif. undated
Photographer: Tait, C.E.
Physical Description: 1 negative
Scope and Content Note

Box 41:3  725-A-b-3 San Antonio Wash, Calif., below Canyon. undated
Photographer: Tait, C.E.
Physical Description: 1 negative
Scope and Content Note
Box 41:4  725-A-b-4  **San Antonio Wash, Calif. 1900**  
Photographer: Tait, C.E.  
Physical Description: 1 negative  
Scope and Content Note

Box 41:5  725-A-b-6  **Flood in San Antonio Wash below canyon and winter snow on mountains. undated**  
Photographer: Tait, C.E.  
Physical Description: 1 negative  
Scope and Content Note

Box 41:6  725-A-b-7  **Flood at mouth of San Antonio Canyon. undated**  
Photographer: Tait, C.E.  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 41:7  725-B-1 (a)  **Diversion wall in Cucamonga wash. N.E. of Claremont, Calif. Flood control in the coastal basin of So. California (b) Control works, water spreading project in Cucamonga wash, n.e. of Claremont 1932 May**  
Photographer: Adams, Frank  
Physical Description: 2 negatives, 2 prints  
Scope and Content Note

Box 41:8  725-B-2  **Diversion structure, water spreading project, Cucamonga wash, N.E. of Claremont, California 1932 May**  
Photographer: Adams, Frank  
Physical Description: 1 negatives, 2 prints  
Scope and Content Note

Box 41:9  725-B-3  **Diversion wall in Cucamonga wash. 1932 May**  
Photographer: Adams, Frank  
Physical Description: 1 negative, 1 print  
Scope and Content Note

Box 41:10  725-B-4  **Tri-county water spreading works, South Coastal Plains project, California (See also 725-13) 1935 May**  
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 negative  
Scope and Content Note

Box 41:11  725-B-5  **Tri-county water spreading works, South Coastal Plains project, California. (See 725-12) 1935 May**  
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 negative  
Scope and Content Note

Box 41:12  725-B-6  **Spreading flood water from San Antonio Wash for storage in the gravels. undated**  
Photographer: Tait, C.E.  
Physical Description: 1 negative  
Scope and Content Note
<p>| Box 42:1 | 730-A-1 Pump House Below Salter Fill, Modesto Irrigation District, California. 1915 December 5 |
| Box 42:2 | 730-A-2 Pumping Plant for Berries and Vines, Florin, Cal. 1915 September 18 |
| Box 42:3 | 730-A-3 Pumping Plant and Irrigation Flume, Pajaro Valley, Cal. 1915 August 30 |
| Box 42:4 | 730-A-4 Pumping Plant and Main Canal for Mallon and Blevin's Rice Tract, Princeton, Cal. 1915 May 18 |
| Box 42:5 | 730-A-5 Sasao's Pumping Plant for the Irrigation of Strawberries and Fruit Trees, Sunnyvale, California. 1915 January 18 |
| Box 42:6 | 730-A-6 Pumping Plant of the Sacramento Valley Irrigation Co., above Hamilton City, Cal. 1915 August 19 |
| Box 42:7 | 730-A-7 Pumping Plant and Main Canal of the Sacramento Valley Irrigation Co., above Hamilton City, Cal. 1915 August 9 |</p>
<table>
<thead>
<tr>
<th>Box 42:8</th>
<th>730-A-8 Pumping Plant of the Lockwood Irrigation District on Yellowstone River, Montana. 1916 November 28</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
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<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
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<td>Water is delivered from this main pumping plant with 2 lifts of 60 and 100 feet respectively above the low water level of the river. The conduit consists of separate lines of 24-inch wood stave pipe, buried underground. The pipe to the 60 foot canal is 600 feet long and to the 100 foot canal is 1,180 feet long. The pump house has a concrete sub-structure with solid rock foundation, the walls forming a sump, and with a concrete floor and super-structure of Fromberg pressed brick. The roof is of corrugated iron. There are three pumping units directly connected to electric motors. Water enters the sump from the Yellowstone River on the left through two lines of galvanized corrugated iron pipe 75 feet long and respectively 24 and 36 inches in diameter. The pumps deliver 20 cubic feet per second to the 100 foot canal and 15 cubic feet per second to the 60 foot canal.</td>
</tr>
</tbody>
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<tr>
<th>Box 42:9</th>
<th>730-A-9 Pumping Plant, Lockwood Irrigation District, Montana. 1916 November 28</th>
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<td></td>
<td>Photographer: Hutchins, Wells A.</td>
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<td>Physical Description: 1 negative, 1 print</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 42:10</th>
<th>730-A-10 Pumping Plant of the Avondale Irrigation District on Hayden Lake, Idaho. 1916 November 22</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
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<td>Physical Description: 1 negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This plant contains a pump operated by steam power.</td>
</tr>
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<tr>
<th>Box 42:11</th>
<th>730-A-11 Head of 60-foot Lift, Lockwood Irrigation District, Montana. 1916 November 28</th>
</tr>
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<tbody>
<tr>
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<td>Photographer: Hutchins, Wells A.</td>
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<td>Physical Description: 1 negative, 1 print</td>
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<td>Scope and Content Note</td>
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<td></td>
<td>In the background is shown the pumping plant on Yellowstone River.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Box 42:12</th>
<th>730-A-12 Pumping Plant of the Snipes Mountain Irrigation District, Yakima Valley, Washington. 1916 November 17</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Hutchins, Wells A.</td>
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<tr>
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<td>Physical Description: 1 negative, 1 print</td>
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<td></td>
<td>Scope and Content Note</td>
</tr>
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<td></td>
<td>This plant was installed by the U.S. Reclamation Service under contract with the District. Water is supplied to this plant through the penstock shown on the right from the Sunnyside Canal of the U.S. Reclamation Service. With a drop of 65 feet and a maximum head of water of 90 cubic feet per second, this plant pumps 14 cubic feet per second to a height of 200 feet. This 14 cubic feet per second is delivered to the Snipes Mountain Irrigation District and the balance of the 90 cubic feet per second is used for supplying lower lands under the Reclamation Service Project. This does not constitute the entire water supply of the District, for a pumping plant was already installed to serve 180 acres.</td>
</tr>
</tbody>
</table>
Box 42:13  730-A-13 Smaller Pumping Plant, Gem Irrigation District, Idaho. 1916 December 30
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative, 1 print
  Scope and Content Note
  This shows the back of the plant and the discharge pipe which is of cast iron joined to the
  wood stave pipe used for carrying the water up to the canal. This pumping plant is
  located about 2 miles below Homedale on the river, and the main pumping plant of this
  District, which is very much larger than this one, is located about 11 miles above
  Homedale.

Box 42:14  730-A-14 Smaller Pumping Plant, Gem Irrigation District, Idaho. 1916 December 30
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative
  Scope and Content Note
  The Snake River is shown in the background on the right. Same as Picture No. 45

Box 42:15  730-A-15 Intake of the Smaller Pumping Plant of the Gem Irrigation District, on Snake
  River, Idaho. 1916 December 30
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative, 1 print
  Scope and Content Note

Box 42:16  730-A-16 Pumping Plants of Hayden Lake and Avondale Irrigation Districts, on Hayden
  Lake, Idaho. 1916 November 22
  Photographer: Hutchins, Wells A.
  Physical Description: 1 negative, 1 print
  Scope and Content Note
  The electrically operated plant on the left is that of the Hayden Lake District and the
  steam plant on the right is that of the Avondale District. Power for the Hayden Lake
  pumping plant is furnished from the adjoining electric plant of the Hayden Lake
  Improvement Company, owned by the Spokane and Inland Empire Railway.

Box 42:17  730-A-17 Pumping plant used for Rice Irrigation, Glenn Ranch, Willows, California.
  1916 September
  Photographer: Robertson, Ralph D.
  Physical Description: 1 negative
  Scope and Content Note
  Pump discharges 2250 gallons per minute.

Box 42:18  730-A-18 Pumping Plant for Rice Irrigation, River Garden Farms Company, Knights
  Landing, Cal. 1916 September
  Photographer: Robertson, Ralph D.
  Physical Description: 1 negative, 1 print
  Scope and Content Note
  Water is pumped from Sycamore Slough.

Box 42:19  730-A-19 Pumping Plant Belonging to the Mills Orchard Company, West of Maxwell,
  California. undated
  Photographer: Adams, Frank
  Physical Description: 1 negative, 3 prints
  Scope and Content Note
Box 42:20  730-A-20 Pumping Plant in Santa Clara Valley, California. 1916 August
Photographer: Robertson, Ralph D.
Physical Description: 1 negative, 2 prints
Scope and Content Note

Box 42:21  730-A-21 Section of Covina Ditch, California. undated
Photographer: Adams, Frank
Physical Description: 1 negative, 1 print
Scope and Content Note
The small thatched-roof house on the bank of the ditch covers a pumping plant used to raise water to a residence on a higher level. Adjoining the pumping plant is a small concrete reservoir seen on the right.

Box 42:22  730-A-22 Pumping Plant in Santa Clara Valley, California. undated
Photographer: Robertson, Ralph D.
Physical Description: 1 negative, 1 print
Scope and Content Note
Vertical centrifugal pump lifting water 80 feet and discharging 900 gals. per minute.

Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 5 prints
Scope and Content Note

Photographer: Hutchins, Wells A.
Physical Description: 1 negative
Scope and Content Note

Box 42:25  730-A-26 Pumping plant on the Durham Ranch of Stanford University where two wells have been drilled. 1917 December
Photographer: Adams, Frank
Physical Description: 1 print
Scope and Content Note
The plant is equipped with an 8-inch Dow centrifugal pump and a 50 H.P. Crocker-Wheeler motor.

Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 4 prints
Scope and Content Note
Box 42:27 730-A-28 San Dimas Wash, Los Angeles County, below portion shown in Pict. 1918 May
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative, 2 prints
  Scope and Content Note
  This is considered the most prolific water bearing area in the State. The first well in San Dimas Wash was drilled in 1895. The pumping lift was then 44 feet. In 1905 it had increased to 100 feet and at the head of the wash where the plants are thickest it had increased to 190 to 220 feet. Later it increased as high as 400 feet in some places. Of the twenty-two plants in the head of the wash, 15 lie within three adjacent quarter sections, also within an area of one-half square mile.

Box 42:28 730-A-29 San Dimas Wash, Los Angeles County, near the mouth of the canyon. 1918 May
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative, 3 prints
  Scope and Content Note

Box 42:29 730-A-30 One of the New Pumping Plants on Southwest Side of Coachella Valley, California. undated
  Photographer: Tait, C.E.
  Physical Description: 1 print
  Scope and Content Note
  The old water line is shown on Coral Reef in background.

Box 42:30 730-A-31 Pumping plant in foothills near Exeter. undated
  Photographer:
  Physical Description: 1 negative, 1 print
  Scope and Content Note

Box 42:31 730-A-32 A small pumping plant in Santa Clara Valley. undated
  Photographer:
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 42:32 730-A-33 Booster Pumping Plant delivering to rice fields near Dodge Land Company headquarters in Butte Co. - Fall 1921 Fall
  Photographer:
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 42:33 730-A-34 Mutual Water Company pumping plant lifting water from Western Canal near headquarters of Dodge Land Co. 1921 August
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 42:34 730-A-35 Pumping plant, intake side - Panoche Water Co. 1922 August
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative, 1 print
  Scope and Content Note
<table>
<thead>
<tr>
<th>Box 42:35</th>
<th>730-A-66 Typical pumping plant (Kimball pump) 1925</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Photographer: Johnston, C.N.</td>
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<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
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<tr>
<th>Box 43:1</th>
<th>730-B-a-3 Interior of Pumping House, Reclamation District No. 1500, Sutter Basin 1917 July, 1917 July</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 glass plate negative, 3 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 43:2</th>
<th>730-B-a-4 Pumping Water to a Portion of the Mallon-Blevins Rice Field north of Colusa, California 1917 July</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 43:3</th>
<th>730-B-a-5 James Canal Pumping Plant on Fresno Slough near Tranquility. 1918 May 31</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 4 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>This pumping plant is used late in the season to deliver water to lands along James Canal in Tranquility Colony that are riparian to Fresno Slough, the pumped water backing up through Fresno Slough from San Joaquin River.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 43:4</th>
<th>730-B-a-6 Pumping Plant and Ditch in Tulare Lake Section. 1918 May 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 3 prints</td>
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<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 43:5</th>
<th>730-B-a-7 Booster Pumping Plant No. 1, Terra Bella Irrigation District. 1918 May 7</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 3 prints</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>Water is brought to this pumping plant through the discharge pipe shown from main pumping plan. This discharge is elevated to give pressure on the delivery lines between the main pumping plant and booster plant No. 1. The aggregate lift in Terra Bella District is 540 feet.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 43:6</th>
<th>730-B-a-8 Typical Pumping Unit in the Lindsay Strathmore Collecting Basin. 1918 May 7</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
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<td>Physical Description: 1 glass plate negative, 4 prints</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>The lift here is about 100 feet.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 43:7</th>
<th>730-B-a-10 Direct connected Motor driver, Centrifugal Pumps, Idaho. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 glass plate negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>
Box 43:8  730-B-a-11 Pump and wells on farm of J.E. Scarlett, near Yolo, Calif. The machinery shown is in a pit 12’ deep. 1900  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 43:9  730-B-a-12 Pumping from drainage ditch for beets. Talbert, Calif. 1919 April  
Photographer: F.W.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 43:10  730-B-a-13 Pumping plants of Alpaugh Irrigation District. 1919 November  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 3 prints  
Scope and Content Note

Box 43:11  730-B-a-14 Typical pumping plant of Alpaugh Irrigation District at Smyrna Wells. 1919 November  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 2 prints  
Scope and Content Note  
Note excessive lift of pumping plant to main canal.

Box 43:12  730-B-a-15 Gasoline Engine and Pump Pit on Berry and Adams Rice Farm, near Marysville. 1918 July  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 43:13  730-B-a-16 Side view of Wood Screw Pump Installation, Sacramento Valley Westside Canal Company. 1919  
Photographer: Brown, J.B.  
Physical Description: 1 print  
Scope and Content Note

Box 43:14  730-B-a-17 Wood Screw Pump Installation. Sacramento Valley Westside Canal Co. (Now Glenn Colusa Irrigation District.) 1919  
Photographer: Brown, J.B.  
Physical Description: 2 prints  
Scope and Content Note

Box 43:15  730-B-a-18 Pumping plant of Glenn-Colusa Irrigation District. 1920 March  
Photographer: Adams, Frank  
Physical Description: 2 negatives, 1 print  
Scope and Content Note  
Old syphon pump shown in the foreground on right. First unit centrifugal in first section of pumping house on right. Old turbine pumps (3) in middle section. First Unit Wood screw pump on the left. On extreme left preparing foundations for additional Wood pump units.
Box 43:16  730-B-a-19 Pump and galvanized iron stand pipe Leroy Anderson Farm, Santa Clara Valley. 1920 March
Photographer: Adams, Frank
Physical Description: 1 negative
Scope and Content Note

Box 43:17  730-B-a-20 Rice Pumping plant above dredger cut of Reclamation District A80. 1918
Photographer: Adams, Frank
Physical Description: 1 glass plate negative (broken), 3 prints
Scope and Content Note
Picture taken during water shortage of summer of 1918 when water in dredger cut fell below suction of numerous pumping plants delivering water to rice lands above this dredger cute.

Box 43:18  730-B-a-21 Booster plant and outlet from main pumping plant, Terra Bella Irrigation District. 1918 May
Photographer: Adams, Frank
Physical Description: 1 glass plate negative
Scope and Content Note

Box 43:19  730-B-a-22 Pumping plant - Delhi Irrigation Experimental tract, immediately after installation, spring, 1921. 1921
Photographer: Adams, Frank
Physical Description: 1 glass plate negative
Scope and Content Note

Box 43:20  730-B-a-23 Pumping plant at head of Central Canal - Glenn-Colusa Irrigation District. On left, battery of four wood screw pumps; on right, housing for centrifugal pumps. circa 1922
Photographer: Adams, Frank
Physical Description: 2 glass plate negatives, 7 prints
Scope and Content Note

Box 43:21  730-B-a-24 Down stream side of pumping plant - head of Glenn-Colusa, -Central Canal- Glen Collusa Irrigation District. On the right, suction end of wood screw pumps; on the left, suction end of centrifugal pumps. 1922
Photographer:
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note

Box 43:22  730-B-a-25 Battery of wood screw pumps under installation at head of Central Canal - Glenn Colusa Irrigation District. 1922
Photographer:
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 43:23  730-B-a-26 Pumping plant on one of the Walton Orchard Company's Orchards, Showing excess lift. Yuba City, California. 1916 August
Photographer: H.K.F.
Physical Description: 1 negative, 1 print
Scope and Content Note
Box 43:24  730-B-a-27 **Typical pumping plant, Boston Land Company near Huron. 1918 May 6**
Photographer: Adams, Frank
Physical Description: 1 glass plate negative (broken), 3 prints
Scope and Content Note
When this project was visited, May 6, 1918, 37 or 38 pumping plants similar to this had been installed, the wells being 1600 to 2610 feet deep with only 5 or 6 under 2000 feet in depth, but with none of the casings perforated above 1000 feet below the surface.

Box 43:25  730-B-a-28 **Pump house, Westside Irrigation District, under construction. near Tracy, California. 1918 May 2**
Photographer: Adams, Frank
Physical Description: 1 glass plate negative (broken), 3 prints
Scope and Content Note
The picture shows the inlet and the extreme upper end of the dredger cut from Old River or western branch of the San Joaquin River.

Box 43:26  730-B-a-29 **Main Booster Station, Lindsay-Strathmore Irrigation District. 1918 May 7**
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 5 prints
Scope and Content Note

Box 43:27  730-B-a-30 **Oil producer gas pumping plant, San Dimas, Calif. 1910**
Photographer: Tait, C.E.
Physical Description: 1 negative
Scope and Content Note

Box 43:28  730-B-a-31 **Pumping plants, San Dimas Wash, Calif. The scramble for water, 26 plants in one square mile. 1910**
Photographer: Tait, C.E.
Physical Description: 1 negative, 2 prints
Scope and Content Note

Box 43:29  730-B-a-32 **Pitzer pumping plant near Pomona, Calif. 1910**
Photographer: Tait, C.E.
Physical Description: 1 negative, 1 print
Scope and Content Note

Box 43:30  730-B-a-33 **Erection of machinery at pumping plant on Evergreen Ranch, Lordsburg, Calif. undated**
Photographer: Tait, C.E.
Physical Description: 1 glass plate negative
Scope and Content Note
Murray 125 H.P. Tandem compound condensing superheating Corliss engine. Byron Jackson 4 stage No. 5 pump. Water tube boiler feed water heater, and fuel oil heater.

Box 43:31  730-B-a-34 **Pumping plant, Teague Nurseries, San Dimas, Calif. 1910**
Photographer: Tait, C.E.
Physical Description: 1 negative
Scope and Content Note
Box 43:32  730-B-a-35  Pumping plant in San Dimas wash near San Dimas, Calif. Seven plants all lifting water over 200 feet. undated  
Photographer: Tait, C.E.  
Physical Description: 1 negative  
Scope and Content Note

Box 43:33  730-B-a-36  Pumping plant and reservoir near Claremont Calif. undated  
Photographer: Tait, C.E.  
Physical Description: 1 negative, 2 prints  
Scope and Content Note

Box 43:34  730-B-a-37  Artesian Belt W. Co. Pumping Plant, San Dimas, Calif. 1910  
Photographer: Tait, C.E.  
Physical Description: 1 negative  
Scope and Content Note

Box 43:35  730-B-a-38  Glenn-Colusa Irrig. Dist. Pumping Plant from east bank of canal 1928 June 23  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note

Box 43:36  730-B-a-39  Glenn Colusa pumping plant from west bank of canal showing wood- screw pumps. 1928 June 23  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note

Box 43:37  730-B-a-40  Pumping plant of Big Springs Water Company, taken over by Big Springs Irrigation District. 1928 July 24  
Photographer: Christiansen, Jerald Emmet  
Physical Description: 1 negative  
Scope and Content Note

Box 44:1  730-B-a-42  Pumping plant, general view, Docini, Davis. undated  
Photographer: Veihmeyer, Frank J.  
Physical Description: 1 negative  
Scope and Content Note

Box 44:2  730-B-a-43  Testing pumping plant. Horizontal Centrifuge. undated  
Photographer: Beckett, Samuel H.  
Physical Description: 1 negative  
Scope and Content Note

Box 44:3  730-B-a-44  Walking beam pump. Tulare County. undated  
Photographer: Beckett, Samuel H.  
Physical Description: 1 negative  
Scope and Content Note
<table>
<thead>
<tr>
<th>Box</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>44:4</td>
<td>730-B-a-45</td>
<td><strong>Pomona deep-well pump and pump house, Pomona, California, 1915. 1915</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Photographer: Beckett, Samuel H.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>44:5</td>
<td>730-B-a-46</td>
<td><strong>Temporary installation, Delhi pumping plant 1921</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Photographer:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<tr>
<td></td>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>44:6</td>
<td>730-B-a-47</td>
<td><strong>Irrigation pumping plant, Cache Valley, Logan, Utah. 1922 August</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Photographer: Veihmeyer, Frank J.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>44:7</td>
<td>730-B-a-48</td>
<td><strong>Runners from 2-stage Well turbine after 10 years operation in Well No.1, University Farm, Davis, Calif. 1929 May 6</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Photographer: Givan, C.V.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>44:8</td>
<td>730-B-a-50</td>
<td><strong>Layne and Bowler turbine pump, Westinghouse motor used for irrigation at the G.K. Swingle ranch, east of Davis, Calif. 1931 June 19</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Photographer: Givan, C.V.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Description: 2 negatives, 1 print</td>
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<tr>
<td></td>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>44:9</td>
<td>730-B-a-51</td>
<td><strong>Pumping plant used for watering stock and flooding duck pond. S.H. Cowell ranch, 5 miles east of Davis. 1931 August</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Photographer: Givan, C.V.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>44:10</td>
<td>730-B-a-52</td>
<td><strong>Tractor plant on Russell Ranch, east of highway to Madison, three miles north of Winters. 1931 August</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<td></td>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>44:11</td>
<td>730-B-a-53</td>
<td><strong>Tractor pumping plant, Thurber's ranch, Pleasant Valley, west of Winters. 1931 August</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
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<td>Scope and Content Note</td>
</tr>
<tr>
<td>44:12</td>
<td>730-B-a-54</td>
<td><strong>10&quot; split case, double suction Byron Jackson horizontal centrifugal pump powered with 10-20 HP John Deere tractor on Roby ranch east of Winters. Maximum discharge approximately 2300 g.p.m. 1931 August</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Description: 2 negatives, 1 print</td>
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<tr>
<td></td>
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<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 44:13</td>
<td>730-B-a-55 Pelton pump in new well, City of Winters, east of railroad track. 1931</td>
<td></td>
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<tr>
<td></td>
<td>Photographer: Givan, C.V.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 negatives, 1 print</td>
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<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 44:14</th>
<th>730-B-a-56 Ira Gordon pumping plant, Layne and Bowler belted pump, 4 miles southeast of Davis. 1931</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 negatives</td>
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<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 44:15</th>
<th>730-B-a-57 Tractor plant on Schmeiser ranch, Yolo County 1931</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: V.G.-A.P.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 negatives, 1 print</td>
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<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 44:16</th>
<th>730-B-a-58 Impellors from old Hart pump on Mulhauser ranch, Yolo Co. Note rubber bearings. 1931</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: V.G.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 44:17</th>
<th>730-B-a-59 Tractor plant on Wm. Oeste Estate ranch, Yolo Co. 1931</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: V.G.</td>
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<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 44:18</th>
<th>730-B-a-60 Centrifugal pump used for pumping from lateral ditch in Reclamation District 999 in the Delta of the Sacramento-San Joaquin rivers 1929</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Givan, C.V.</td>
</tr>
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<td></td>
<td>Physical Description: 1 negative</td>
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<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 44:19</th>
<th>730-B-a-61 Drawing from which demonstration and experimental pump assembly was made by Sterling Pump Company 1930 March</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Givan, C.V.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 44:20</th>
<th>730-B-a-63 Centrifugal pump used in pumping water from canal to ground surface, Reclamation District 999. 1928</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Huberty, Martin R.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<tr>
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<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 44:21</th>
<th>730-B-a-64 Layne and Bowler turbine pump driven by Fordson tractor. Watkins Bros. ranch south of Davis. 1931 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Christiansen, Jerald Emmet</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
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<tr>
<td>Box 44:22</td>
<td>730-B-a-65</td>
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<td>Photographer: Christiansen, Jerald Emmet</td>
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<tr>
<td></td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 44:23</th>
<th>730-B-a-66 Typical pumps, (1) Split-shell centrifugal pump; (2) single-suction centrifugal pump; (3) deep well turbine; (4) Single screw from deep well pump; (5) rotary displacement priming pump. (The pump appears just above the number) 1924</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Johnston, C.N.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 negatives, 1 print</td>
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<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 44:24</th>
<th>730-B-a-67 Removal of pump from well No. 2, University Farm, Davis 1924</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Johnston, C.N.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 3 negatives, 5 prints</td>
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<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 44:25</th>
<th>730-B-a-68 View of pump removed from well no. 2, University Farm, Davis 1924</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Johnston, C.N.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 44:26</th>
<th>730-B-a-69 Pump parts removed from well No. 2, University Farm, Davis. 1924</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Johnston, C.N.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 44:27</th>
<th>730-B-a-70 Removal of pump from well no. 2, University Farm, had casing had collapsed. 1924</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Johnston, C.N.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative, 1 print</td>
</tr>
<tr>
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<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 44:28</th>
<th>730-B-a-71 Booster pumping plant, No. 1, West Stanislaus I.D. 1929</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Huberty, Martin R.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 44:29</th>
<th>730-B-a-72 An Adams Diesel engine under test in shop at Los Angeles. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative (chipped corner)</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 44:30</th>
<th>730-B-a-73 Pumping Plant, West Stanislaus Irrigation District. similar to view shown in Bul. 21, p. 166 1929</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Physical Description: 1 negative</td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

See photo no. 730-B-a-74.
Box 44:31  730-B-a-74 Pumping plant, West Stanislaus Irrigation District Similar to page 166, Bulletin 21. undated
   Photographer: Adams, Frank
   Physical Description: 2 negatives, 1 print
   Scope and Content Note

Box 44:32  730-B-a-75 Some pumping plants of Rancho Wells area of Lindsay Creek. undated
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note

Box 44:33  730-B-a-76 Installing Byron Jackson Submersible pump in #8 well. 1938 August 18
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 5 negatives, 3 prints
   Scope and Content Note

Box 44:34  730-B-a-77 Portable pumping plant for pumping water over levees. Seen at Burham's Ranch, 8 mi. N. of Lost Hills, Calif. 1938 August 12
   Photographer: Christiansen, Jerald Emmet
   Physical Description: 3 negatives, 1 print
   Scope and Content Note

Box 44:35  730-B-a-78 Sta. Cir. 312. Fig. 1.-Typical pumps. (1) Split-shell centrifugal pump opened for inspection; (2) single-suction centrifugal pump opened for inspection; (3) deep well turbine model with runners and shaft exposed, full-sized bowls and runner being shown in front; (4) single screw from deep well pump; (5) rotary displacement priming pump. (Pump appears just above number.) 1928
   Photographer: Johnston, C.N.
   Physical Description: 1 negative
   Scope and Content Note

Box 44:36  730-B-a-79 Sta. Cir. 312. Fig. 6.-Typical well rig used for heavy drilling. Note scow being dumped. 1928
   Photographer: Johnston, C.N.
   Physical Description: 1 negative
   Scope and Content Note

Box 44:37  730-B-a-80 Sta. Cir. 312. Fig. 11.--Typical deep-well pumping plant in house. 1928
   Photographer: Johnston, C.N.
   Physical Description: 1 negative
   Scope and Content Note

Box 44:38  730-B-a-81 Impeller for centrifugal pump 1940 June 13
   Photographer: Weston, E.W. for Givan, C.V.
   Physical Description: 1 negative, 1 print
   Scope and Content Note

Box 44:39  730-B-a-82 Measuring discharge from pumping plants in Santa Clara Valley. Investigations conducted by C.V. Givan. Approx. 1934
   Photographer: Adams, Frank
   Physical Description: 1 negative
   Scope and Content Note
Box 44:40
730-B-a-83 **Discharge from pumping plants in Santa Clara Valley investigations conducted by C.V. Givan. 1934**
- Photographer: Adams, Frank
- Physical Description: 1 negative
- Scope and Content Note

Box 44:41
730-B-a-84 **Discharge from pumping plants in Santa Clara Valley investigations conducted by C.V. Givan. 1934**
- Photographer: Adams, Frank
- Physical Description: 2 negatives, 1 print
- Scope and Content Note

Box 44:42
730-B-a-85 **Discharge from pumping plants in Santa Clara Valley. Investigations conducted by C.V. Givan. 1934**
- Photographer: Adams, Frank
- Physical Description: 1 negative
- Scope and Content Note

Box 44:43
730-B-a-86 **Discharge from pumping plants in Santa Clara Valley. Investigations conducted by C.V. Givan. 1934**
- Photographer: Adams, Frank
- Physical Description: 1 negative
- Scope and Content Note

Box 44:44
730-B-a-87 **Development of Well No. 18 by E.E. Luhdorff, Woodland. Well drilled by F.H. Eaton, Woodland. Well located east of Pomology spray house, on bank of Putah Creek. 1947 August 14**
- Photographer: Veihmeyer, Frank J.
- Physical Description: 3 negatives, 1 print
- Scope and Content Note

Box 44:45
730-B-a-88 **Pump at southwest corner of boundary between property of T.S. Glide and G. Pierce, Yolo County, 1 mile W. of U.S. Highway 99W on Putah Creek. 1950 July 13**
- Photographer: Scott, Verne H.
- Physical Description: 1 negative
- Scope and Content Note

Box 44:46
730-B-a-89 **Low lift propeller pump in canal 30 miles north of Mendota, Fresno Co. 1954 April 28**
- Photographer: Scott, Verne H.
- Physical Description: 1 negative, 1 print
- Scope and Content Note

Box 45:1
730-B-c-1 **Wheel lifting water for Irrigation Directly Above Intake of Anderson-Cottonwood Irrigation District at Redding, California. undated**
- Photographer: 
- Physical Description: 2 glass plate negatives, 1 print
- Scope and Content Note
<table>
<thead>
<tr>
<th>Box</th>
<th>Description</th>
<th>Date</th>
<th>Photographer</th>
<th>Physical Description</th>
<th>Scope and Content Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>45:2</td>
<td>Low Lift Water Wheel. 1917 July</td>
<td></td>
<td>Adams, Frank</td>
<td>1 glass plate negative, 1 print</td>
<td>Operated by Motor, raising water to the higher portion of the Mallon-Blevins Rice Fields.</td>
</tr>
<tr>
<td>45:3</td>
<td>Water Lift, Tulare Lake Section. 1918 May 5</td>
<td></td>
<td>Adams, Frank</td>
<td>1 glass plate negative, 3 prints</td>
<td></td>
</tr>
<tr>
<td>45:4</td>
<td>Water Wheel in 4-way Structure in Tulare Lake Section. 1918 May 5</td>
<td></td>
<td>Adams, Frank</td>
<td>1 glass plate negative, 2 prints</td>
<td></td>
</tr>
<tr>
<td>45:5</td>
<td>Current lift wheel on Francher Creek Nursery, Fresno County, Calif. 1903 November</td>
<td></td>
<td>M&amp;M</td>
<td>1 glass plate negative</td>
<td></td>
</tr>
<tr>
<td>45:6</td>
<td>Current wheel on Francher Creek Nursery, Fresno Co., Calif. 1903 November</td>
<td></td>
<td>M&amp;M</td>
<td>1 glass plate negative</td>
<td></td>
</tr>
<tr>
<td>45:7</td>
<td>Water wheel, Geo. Roeding Ranch, Fresno, Calif. undated</td>
<td></td>
<td></td>
<td>1 glass plate negative</td>
<td></td>
</tr>
<tr>
<td>45:8</td>
<td>Home-made water elevator. 1900</td>
<td></td>
<td>Adams, Frank</td>
<td>1 glass plate negative, 1 print</td>
<td>On farm of O.J.Adams, south side of Cache Creek below Nelson bridge, Calif. This elevator takes water from Cache Creek, which irrigates orchard. Pump did not cost in all more than $5.00</td>
</tr>
<tr>
<td>45:9</td>
<td>Up-stream view of water wheel for low lifts, Mallon and Blevins Canal. 1918 November</td>
<td></td>
<td>Adams, Frank</td>
<td>1 glass plate negative</td>
<td></td>
</tr>
<tr>
<td>45:10</td>
<td>Water wheel for low water lifts, Mallon and Blevins Rice Canal. Sacramento Valley. 1918 November</td>
<td></td>
<td>Adams, Frank</td>
<td>1 glass plate negative, 1 print</td>
<td></td>
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</table>
Box 45:11 730-B-c-18 Water wheel for low lifts, Mallon and Blevins Rice Canal. 1918 November
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative (broken)
   Scope and Content Note

Box 45:12 730-C-a-2 Upper power house, San Antonio Canon, near Pomona, Calif. Pacific Light
   and Power Co. owner. undated
   Photographer: Tait, C.E.
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 45:13 730-C-a-3 Middle power house, San Antonio Canon, near Pomona, Calif. Ontario Power
   Co. owner. undated
   Photographer: Tait, C.E.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 45:14 730-C-a-4 Lower power house, San Antonio Canon, near Pomona, Calif. Ontario and
   San Antonio Heights Railway Co. owner. undated
   Photographer: Tait, C.E.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 45:15 730-C-b-3 Pumping Engine, Calif. 1900
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 45:16 730-C-c-1 Sub-station, Modesto Irrigation District power plant. 1924 May 22
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

Box 45:17 730-C-c-2 Power sub-station - Modesto Irrigation District 1924 May 22
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 45:18 740-A-4 Clearing brush from new land in Imperial Valley, Calif. with the Beam. This
   not only clears the brush but also removes a portion of the small hummocks undated
   Photographer: Tait, C.E.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 45:19 740-A-5 Rock Removed from Land for Planting Orange Orchard, near Claremont,
   California. undated
   Photographer: Tait, C.E.
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note
   The cost of preparing the land was $250 per acre.
<table>
<thead>
<tr>
<th>Box 45:20</th>
<th>740-A-6 Clearing ground for irrigation, Modesto, Calif. undated</th>
</tr>
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<tbody>
<tr>
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<td>Photographer:</td>
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<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 45:21</th>
<th>740-B-17 Side of Lovelock tail buck scraper. 1918 May 18</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative (broken), 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 45:22</th>
<th>740-B-18 Tail buck scraper on Ontario Sewage Farm made in Lovelock, Nevada. 1918 May 18</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 45:23</th>
<th>740-C-3 Four horse Fresno scraper. Excavating canal, Yolo County, Calif. 1907</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Photographer:ources:</td>
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<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 46:1</th>
<th>740-D-1 Untitled undated</th>
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<tr>
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<td>Photographer:</td>
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<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 46:2</th>
<th>740-D-3 Untitled undated</th>
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<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 46:3</th>
<th>740-D-4 Checks Fully Cultivated Ready for Seeding. 1919</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 46:4</th>
<th>740-D-5 Rolling Checks After Seeding. 1919</th>
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<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<td>Physical Description: 1 glass plate negative</td>
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<tr>
<th>Box 46:5</th>
<th>740-D-6 Discing Checks before seeding. 1919</th>
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<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 46:6</th>
<th>740-D-8 Untitled undated</th>
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<td>Photographer:</td>
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<td>Box</td>
<td>Image Number</td>
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<td>46:7</td>
<td>740-D-20</td>
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<td>Photographer:</td>
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<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
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<td></td>
<td>Scope and Content Note</td>
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<tr>
<td></td>
<td>See also 740-E-32</td>
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<tr>
<td>46:8</td>
<td>740-E-17</td>
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<td></td>
<td>Photographer:</td>
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<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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<tr>
<td>46:9</td>
<td>740-E-18</td>
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<tr>
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<td>Photographer:</td>
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<tr>
<td>46:10</td>
<td>740-E-23</td>
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<td></td>
<td>Photographer:</td>
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<td></td>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
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<td>Scope and Content Note</td>
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<tr>
<td>46:11</td>
<td>740-E-24</td>
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<tr>
<td></td>
<td>Photographer: Wadsworth, H.A.</td>
</tr>
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<td></td>
<td>Physical Description: 1 negative, 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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<tr>
<td>46:12</td>
<td>740-E-29</td>
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<tr>
<td></td>
<td>Photographer: Veihmeyer, Frank J.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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<tr>
<td>46:13</td>
<td>740-E-30</td>
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<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 glass plate negatives</td>
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<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td></td>
<td>In this work the teams work in one direction the full distance across the field under preparation, and returning, work the other way. A large number of teams worked when the picture was taken.</td>
</tr>
<tr>
<td>46:14</td>
<td>740-E-32</td>
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<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
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<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 1 print</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
<tr>
<td>Box 46:15</td>
<td>740-E-33 Preparing levees for basin irrigation with V crowder. Apricot orchard, Mountain View Deciduous Fruit Station. undated</td>
</tr>
<tr>
<td>Box 47:1</td>
<td>750-A-1 Overflow valve for alfalfa planted on terraces. Arlington, Calif. 1919 May</td>
</tr>
<tr>
<td>Box 47:2</td>
<td>750-A-2 Orchard valve connected to steel pressure line, Whittier, Calif. 1919 March</td>
</tr>
<tr>
<td>Box 47:3</td>
<td>750-A-3 Overflow valve, Arlington Heights, Arlington, Calif. 1919 May</td>
</tr>
<tr>
<td>Box 47:5</td>
<td>750-A-5 Permanent alfalfa valve. Santa Paula, Calif. 1919 June</td>
</tr>
<tr>
<td>Box 47:6</td>
<td>750-A-6 Orchard distributing pipes. Raised to be out of cultivation. (2nd view) Monte Bello, Calif. 1919 March</td>
</tr>
<tr>
<td>Box 47:7</td>
<td>750-A-7 Orchard distributing valve of vit. clay pipe (old type) Gates of cast iron with rubber gaskets which press against plates with pressure. Highlands, Calif. 1919 March</td>
</tr>
<tr>
<td>Box 47:8</td>
<td>750-A-8 Orchard distributing pipes. Water runs from 1/4in. holes spaced 4 feet apart feeding furrow. (1st. view) Monte Bello, Calif. undated</td>
</tr>
</tbody>
</table>
| Box 47:9 | 750-A-9 *Large orchard valve. Not good except against curb or fence as it obstructs cultivation.* Whittier, Calif. 1919 May  
- Photographer: F.W.S.  
- Physical Description: 1 glass plate negative  
- Scope and Content Note |
| Box 47:10 | 750-A-10 *Large orchard valve feeding two middles. Good when against curb otherwise in way of cultivation.* Covina, Calif. 1919 March  
- Photographer: F.W.S.  
- Physical Description: 1 glass plate negative  
- Scope and Content Note |
| Box 47:11 | 750-A-11 *4 in G.I. portable pipe and slide gates.* Santa Ana, Calif. 1919 March  
- Photographer: F.W.S.  
- Physical Description: 1 glass plate negative (broken)  
- Scope and Content Note |
| Box 47:12 | 750-A-12 *Tapoon and 2 in. G.I. spouts in walnut irrigation.* Santa Ana, Calif. 1919 March  
- Photographer: F.W.S.  
- Physical Description: 1 glass plate negative  
- Scope and Content Note |
- Photographer: F.W.S.  
- Physical Description: 1 glass plate negative  
- Scope and Content Note |
| Box 47:14 | 750-A-14 *Oval orchard valve.* Santa Paula, Calif. 1919 April  
- Photographer: F.W.S.  
- Physical Description: 1 glass plate negative  
- Scope and Content Note |
| Box 47:15 | 750-A-16 *Common type distributing orchard valve of terra cotta pipe.* Monte Bello. 1919 June  
- Photographer: F.W.S.  
- Physical Description: 1 glass plate negative, 2 prints  
- Scope and Content Note |
| Box 47:16 | 750-A-17 *Alfalfa Valve made to fit an orchard valve for irrigating inter crop of alfalfa in young orchard.* Elsinore, Calif. 1919 March  
- Photographer: F.W.S.  
- Physical Description: 1 glass plate negative  
- Scope and Content Note |
| Box 47:17 | 750-A-18 *Orchard distributing pot.* La Habra, Calif. 1919 April  
- Photographer: F.W.S.  
- Physical Description: 1 glass plate negative  
- Scope and Content Note |
| Box | 750-A-19 | **Overflow orchard hydrant. North Whittier Heights, Calif. 1919**  
Photographer: F.W.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box | 750-A-20 | **Orchard distributing valves, Monte Bello, Calif. 1919 June**  
Photographer: F.W.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box | 750-A-22 | **Tapoons and spouts, walnut orchard, Santa Ana, Calif. 1919 March**  
Photographer: F.W.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box | 750-A-25 | **Portable pipe distributing device for orchards. Orange, Calif. 1919 May**  
Photographer: F.W.S.  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note |
| Box | 750-A-26 | **Showing use of metal troughs in orchard irrigation. Troughs made of 10' corrugated roofing iron. 1903 August**  
Photographer: Stover, Arthur P.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box | 750-A-27 | **Use of metal troughs in orchard near Monrovia, Calif. Troughs rectangular to cross-section and made of No. 22 galvanized iron. 1903 August**  
Photographer: Stover, Arthur P.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box | 750-A-28 | **Canvas dam. 1903 August**  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box | 750-A-29 | **Showing use of metal troughs in orchard irrigation. 1902 August**  
Photographer: Stover, Arthur P.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box | 750-A-30 | **Kellar-Thomason appliances for irrigation. 1912 May**  
Photographer: F.C.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box | 750-A-35 | **Overflow stands for contour irrigation. Note corrosion down hill due to rains. Bastanchury Ranch, La Habra, Calif. 1919 May**  
Photographer: F.W.S.  
Physical Description: 1 glass plate negative  
Scope and Content Note |

Photographer: Veihmeyer, Frank J.
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note
For distribution of water into furrows on each side of tree row. Purpose of device to enable furrows to be kept sufficient distance apart at the stand pipe so that the ridges between the furrows are not washed out, the flow being regulated by means of the spouts. Very small heads of water are under this system.


Photographer: Veihmeyer, Frank J.
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note
Overflow delivery stand used by Sweet Water Fruit Company in Sweet Water Valley, San Diego County. This type of stand was substituted for the ordinary overflow stand in which a partition wall was used or a stand in which a smaller diameter pipe was inserted into a larger pipe. The putting of the inner pipe on a slant as shown with a "V" shape notch in it allowed of better regulation. With a broader overflow crest the fluctuations were quite great as a small rise would mean a big discharge over the crest. The manager of the Company stated that this is the most efficient arrangement for small heads of water that he has ever seen.


Photographer: Adams, Frank
Physical Description: 1 glass plate negative
Scope and Content Note
This type of stand pipe was considered both more economical and safer in the Salinas Valley winds.


Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 48:10 750-B-6 Irrigation of plot No. 13 of the Muir Peach Orchard, Davis, California. May

Photographer: Veihmeyer, Frank J.
Physical Description: 1 glass plate negative (broken), 2 prints
Scope and Content Note
This irrigation given to ascertain the effect of irrigation on the quality and yield of the fruit when the length growth of the trees is slowing up. The object was to supply sufficient moisture in order that this wood growth might be prolonged.

Box 48:11 750-B-13 Slip-joint pipe and cement stand used in irrigation of alfalfa, near Chino, Calif. 10-inch stand, 7-inch pipe. August

Photographer: Stover, Arthur P.
Physical Description: 1 glass plate negative
Scope and Content Note
<table>
<thead>
<tr>
<th>Box 48:12</th>
<th>750-B-15 Slip joint pipe. Joining sections. Alfalfa irrigation near Pomona, Cal 1903 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.E.R.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 48:13</th>
<th>750-B-16 Slip joint pipe. Alfalfa irrigation near Pomona, Calif. 1903 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.E.R.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 48:14</th>
<th>750-B-17 Flooding pear orchard in Santa Clara Valley undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Adams, Frank</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 2 glass plate negatives, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 48:15</th>
<th>750-B-20 Canvas hose. Cement stands for irrigation, showing use of metal outlet and canvas hose connections, Monrovia, Calif. 1903 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Stover, Arthur P.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 48:16</th>
<th>750-B-21 Slip-joint pipe irrigation of alfalfa near Pomona, Calif. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: Tait, C.E.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative, 1 print</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 48:17</th>
<th>750-B-22 Canvas hose. Junction of cement stand pipe and canvas hose. Alfalfa irrigation near Pomona, Calif. 1903 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.E.R.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 48:18</th>
<th>750-B-23 Canvas hose showing pipe connections. 1903 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.E.R.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 48:19</th>
<th>750-B-25 Slip joint pipe distribution for alfalfa irrigation, near Pomona, Cal. 1903 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.E.R.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
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<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 48:20</th>
<th>750-B-26 Slip joint pipe. alfalfa irrigation with 7&quot; galvanized iron pipe near Pomona, Calif. Pumps supply water. 1903 August</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Photographer: J.E.R.</td>
</tr>
<tr>
<td></td>
<td>Physical Description: 1 glass plate negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
</tr>
</tbody>
</table>
750-B-27 Flooding system, Gibson's, Calif. Flooding alfalfa on ranch of W.B. Gibson; water coming from Moor Ditch. 1900
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

750-B-28 Flood irrigation - Vineyard undated
   Photographer:
   Physical Description: 1 glass plate negative
   Scope and Content Note

750-B-29 Flooding pasture lands from overflow of San Joaquin River 1922
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

750-C-74 Furrow irrigation in cherry orchard undated
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

750-C-90 Irrigated Lady Washington Beans on Garfield Robson Farm in Penn Valley Nevada County, 1917. 1917 August
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative (broken)
   Scope and Content Note
   Owing to the supposed slow lateral percolation of irrigation water, it was thought necessary by the irrigator to use two irrigation furrows between each two rows.

750-C-91 Irrigating Artichokes near Half Moon Bay, California. 1917 August
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note
   The soil here is heavy black loam. Water is applied during the summer every three or four weeks depending upon the dryness. It is run in furrows about one foot wide and 8 or 10 inches deep and as soon as the stream reaches the lower end of the furrows and the furrows are full irrigators put in dams every 15 or 20 feet beginning at the lower end and working back quickly toward the heads of the furrow in order to prevent flooding over the banks of the furrows. When this picture was taken three men were working damming up the two furrows shown. They worked so rapidly that before the camera could be set up and the picture taken, they had put in the three or four dams in each furrow nearest to the camera.

750-C-103 Portion of Ontario Sewage Farm owned by E.A. Parkford. 1918 May 18
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 3 prints
   Scope and Content Note
   Picture shows young peach orchard being irrigated from the sewage. Stand pipes were equipped with the ordinary galvanized iron spout, but these clogged and proved themselves useless pouring water over the tops of the stand pipes as shown in the picture.
<table>
<thead>
<tr>
<th>Box 49:5</th>
<th>750-C-104 Orchard with furrows undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 1 print</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 49:6</th>
<th>750-C-107 Furrow irrigation on lands of Arlington Height Fruit Co., Riverside, Calif. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 1 print</td>
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</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
<tr>
<td>Slide no. I-385</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 49:7</th>
<th>750-C-108 Irrigating sweet potatoes, Portuguese Colony, Merced County, Calif. 1903 August</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: S.A.</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 49:8</th>
<th>750-C-113 Furrow irrigation. Irrigating strawberries from Cache Creek on place of A.D. Martinelli, south side of Cache Creek above Nelson's bridge, Calif. 1900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative</td>
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</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 49:9</th>
<th>750-C-119 Irrigating orange trees, Arlington Fruit Co., Riverside, Calif. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative</td>
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<tr>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 49:10</th>
<th>750-C-125 Well cultivated citrus grove near Pomona, California. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Tait, C.E.</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative</td>
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<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 49:11</th>
<th>750-C-127 Curved furrows to &quot;check back&quot; in lemon orchard near San Dimas, Calif. Soil adobe, slope medium. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Tait, C.E.</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 1 print</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 49:12</th>
<th>750-C-128 Furrow irrigation. Checking back. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative</td>
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<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 49:13</th>
<th>750-C-129 Curved furrow irrigation of orchards. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
<td></td>
</tr>
</tbody>
</table>
Box 49:14  750-C-133 *Furrow irrigation of orange orchard. undated*
Photographer:
Physical Description: 1 glass plate negative (broken)
Scope and Content Note

Box 49:15  750-C-135 *Distributing 30 miners inches of water over a ten acre orange tract from a cement concrete head flume, Riverside, Calif. 1903 December*
Photographer: Tait, C.E.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 49:16  750-C-136 *Irrigating peach orchard, Auburn, California. undated*
Photographer:
Physical Description: 1 glass plate negative
Scope and Content Note

Box 49:17  750-C-147 *Zigzag furrows for “checking back” water in orchard near Pomona, Calif. Soil medium. Slope high. undated*
Photographer: Tait, C.E.
Physical Description: 1 negative, 1 glass plate negative, 1 print
Scope and Content Note

Box 49:18  750-C-150 *Furrow Irrigation, Calif. undated*
Photographer:
Physical Description: 1 glass plate negative
Scope and Content Note

Box 49:19  750-C-153 *Cross furrow irrigation. Santa Ana, Calif. 1919 April*
Photographer: F.W.S.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 49:20  750-C-155 *Tapoons in open ditch for cross furrow irrigation in walnut orchard, Tustin 1919*
Photographer: F.W.S.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 49:21  750-C-157 *Furrow irrigation. Irrigating young vineyard, Imperial Valley, Calif. 1908 June*
Photographer: Tait, C.E.
Physical Description: 1 glass plate negative (broken)
Scope and Content Note

Box 49:22  750-C-159 *Panorama in the foothill section back of Ontario showing concrete standpipes and flume conveying water to furrows in orange grove. 1918 May*
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note
Box 49:23
750-C-160 Terrace irrigation. Correct method of planting. Maag Ranch, Santa Ana Canon. 1919
Photographer: F.W.S.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 49:24
750-C-172 Irrigation of Artichokes near Half Moon Bay, California. 1919 June
Photographer: Veihmeyer, Frank J.
Physical Description: 1 glass plate negative
Scope and Content Note
Showing location of furrows in relation to grade to prevent excessive washing. See picture 750-C-91. See short description of method of cultivation, "Pacific Rural Press."

Box 49:25
750-C-173 Growing and irrigation of artichokes on Ocean Shore Railroad south of San Francisco. undated
Photographer: Veihmeyer, Frank J.
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note

Box 49:26
750-C-174 Irrigating Young Orchard from Concrete Pipe System Camino Ridge, El Dorado County. 1919 August
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note

Box 50:1
750-C-180 Curved furrow irrigation in citrus orchard near Porterville. undated
Photographer:
Physical Description: 1 glass plate negative
Scope and Content Note

Box 50:2
750-C-181 Apricot orchard prepared for irrigation. Santa Clara Valley. circa 1921
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 50:3
750-C-185 Irrigation of Muir peach orchard at Delhi. 1923 Summer
Photographer: A.B.
Physical Description: 1 glass plate negative, 5 prints
Scope and Content Note

Box 50:4
750-C-186 Use of galvanized head pipe in furrow irrigation at Delhi. 1923
Photographer: Adams, Frank
Physical Description: 1 glass plate negative
Scope and Content Note

Box 50:5
750-D-42 Basin system of irrigating apricots in the Santa Clara Valley, Calif. 1903 December
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note
<table>
<thead>
<tr>
<th>Box 50:6</th>
<th>750-D-43 Basin system of orchard irrigation on T.J. Baty's ranch, north side of Cache Creek above Nelson's bridge. Water coming from Cache Creek by means of pump. Calif. 1900</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Photographer:</strong> Adams, Frank</td>
<td></td>
</tr>
<tr>
<td><strong>Physical Description:</strong> 1 glass plate negative, 1 print</td>
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<tr>
<td><strong>Scope and Content Note:</strong></td>
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<table>
<thead>
<tr>
<th>Box 50:7</th>
<th>750-D-44 Basin irrigation of apricot orchard (Santa Clara Valley) undated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Photographer:</strong> Adams, Frank</td>
<td></td>
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<tr>
<td><strong>Physical Description:</strong> 1 glass plate negative</td>
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<tr>
<td><strong>Scope and Content Note:</strong></td>
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<table>
<thead>
<tr>
<th>Box 50:8</th>
<th>750-D-48 Check system for irrigating potatoes. 1903 August</th>
</tr>
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<tbody>
<tr>
<td><strong>Photographer:</strong> J.E.R.</td>
<td></td>
</tr>
<tr>
<td><strong>Physical Description:</strong> 1 glass plate negative</td>
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<tr>
<td><strong>Scope and Content Note:</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Box 50:9</th>
<th>750-D-55 Orchard Irrigation, California. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Photographer:</strong></td>
<td></td>
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<td><strong>Physical Description:</strong> 1 glass plate negative</td>
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<tr>
<td><strong>Scope and Content Note:</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Box 50:10</th>
<th>750-D-56 Basin irrigation, Calif. Pumping from Cache Creek on ranch of Robt. Morrison on Cache Creek above Nelson bridge. 1900</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Photographer:</strong> Adams, Frank</td>
<td></td>
</tr>
<tr>
<td><strong>Physical Description:</strong> 1 glass plate negative</td>
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<tr>
<td><strong>Scope and Content Note:</strong></td>
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</tr>
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</table>

<table>
<thead>
<tr>
<th>Box 50:11</th>
<th>750-D-57 Basin irrigation of olive trees, Fresno, Calif. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Photographer:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Physical Description:</strong> 1 glass plate negative (chipped corner)</td>
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</tr>
<tr>
<td><strong>Scope and Content Note:</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 50:12</th>
<th>750-D-61 Basin irrigation on Currier Tract near Pomona, Calif. Soil, adobe. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Photographer:</strong> Tait, C.E.</td>
<td></td>
</tr>
<tr>
<td><strong>Physical Description:</strong> 1 glass plate negative, 1 print</td>
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</tr>
<tr>
<td><strong>Scope and Content Note:</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 50:13</th>
<th>750-D-71 Irrigation of Prune orchard, Santa Clara Valley. 1919 February</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Photographer:</strong> Veihmeyer, Frank J.</td>
<td></td>
</tr>
<tr>
<td><strong>Physical Description:</strong> 1 glass plate negative, 3 prints</td>
<td></td>
</tr>
<tr>
<td><strong>Scope and Content Note:</strong> Check method, one tree to check.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 50:14</th>
<th>750-D-73 Water Holding Capacity of Soils. 1920 August</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Photographer:</strong> Adams, Frank</td>
<td></td>
</tr>
<tr>
<td><strong>Physical Description:</strong> 1 negative, 2 glass plate negatives, 5 prints</td>
<td></td>
</tr>
<tr>
<td><strong>Scope and Content Note:</strong> Basin made in Dr. LeRoy Anderson's prune orchard, Santa Clara, Valley, August 1912. Basin was filled with water and samples taken immediately after water disappeared from surface. Experiment was repeated and data secured as to ultimate field capacity of this type of soil. Work done by W.W. McLaughlin.</td>
<td></td>
</tr>
</tbody>
</table>
Box 50:15 750-D-75 Land in Santa Clara Valley prepared for winter irrigation, by a rough combination of check and flooding systems. 1918 December
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 50:16 750-D-76 Mulched basins, San Diego County. 1919 January
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

Box 50:17 750-D-77 First flooding of a contour border check, Westside Irrigation District undated
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note
   Note excessive contour interval between this and the lower check; also extreme depth of water on levee in the right as compared with levee at the left.

Box 50:18 750-D-78 Henley almond orchard, Davis, Calif. Check system of irrigation, (Print used for ms. "Some suggestions concerning the irrigation of almond orchards." To be pub "Almond Facts" May 20, 1942 Veihmeyer, Frank J. and A.H. Hendrickson) 1918
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

Box 50:19 750-D-82 Basin irrigation, University Farm. A tier of trees being irrigated- shows several basins being filled and closed. The middle row of each plot contains the trees from which data are taken upon which to base the conclusions as to the effect of the differential irrigation treatments. These trees are guarded on all sides, but the adjacent guard trees receive the same amount of water as the measured tree. 1923 October 5
   Photographer: Veihmeyer, Frank J.
   Physical Description: 2 glass plate negatives, 1 print
   Scope and Content Note

Box 50:20 750-D-83 Basin irrigation. University Farm. 1923 October 5
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 50:21 750-D-86 Cherry orchard irrigation. Furrow irrigation. undated
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 50:22 750-D-87 Using short length of canvas hose attached to alfalfa gate - Delhi experimental tract circa 1922
   Photographer:
   Physical Description: 1 glass plate negative
   Scope and Content Note
Box 50:23 750-D-88 Attaching canvas hose to alfalfa gate, Delhi Experimental tract. 1921 May 7
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note

Box 50:24 750-D-89 Appliance to prevent settlement of sand in mulch basin irrigation. 1919 January
Photographer: Veihmeyer, Frank J.
Physical Description: 1 glass plate negative, 3 prints
Scope and Content Note
Picture shows appliances set in place in ditch. In order to operate successfully ditches must be well made with the bottom of the ditch on the natural surface of the ground and the sides formed by the basin dykes.

Box 50:25 750-D-90 Appliance for prevention of sand settling in mulch basin irrigation 1919 January
Photographer: Veihmeyer, Frank J.
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note
Shows water being turned into basin. Canvass pipe can be thrown into basin on the left without changing the position of the plate. In this picture second appliance has been set in position ready for irrigating the basin above.

Box 50:26 750-D-91 Apparatus designed by Frank M. Eaton of Chula Vista to prevent the deposit of sand when the mulch basin system of irrigation is used. 1919 January
Photographer: Veihmeyer, Frank J.
Physical Description: 1 glass plate negative, 2 prints
Scope and Content Note
Slide no. 758. A plate several inches larger than the irrigation furrow and of approximately the same shape is cut from heavy sheet metal. This plate is reinforced along the upper edge with a strip of angle iron. A 6-inch hole is cut through the center and about 3 inches from the bottom of the plate. Into this hole one end of a canvass tube is secured by means of a metal rim bolted in place over an apron sewed to the end of the tube.

Box 50:27 750-D-92 Delivering water from alfalfa gate to checks through canvas hose. Delhi Irrigation Experimental tract. 1921 May 7
Photographer: Adams, Frank
Physical Description: 1 glass plate negative
Scope and Content Note

Box 50:28 750-D-93 Irrigating alfalfa check - from alfalfa gate - Delhi. undated
Photographer: Adams, Frank
Physical Description: 1 glass plate negative
Scope and Content Note

Box 51:1 750-E-3 Untitled undated
Photographer:
Physical Description: 2 glass plate negatives, 2 prints
Scope and Content Note
<table>
<thead>
<tr>
<th>Box 51:2</th>
<th>750-E-4 <strong>Untitled undated</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 2 glass plate negatives, 6 prints</td>
<td></td>
</tr>
<tr>
<td>Scope and Content Note</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 51:3</th>
<th>750-F-5 <strong>Untitled 1925 October 18</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Veihmeyer, Frank J.</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 2 glass plate negatives, 2 prints</td>
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<tr>
<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 51:4</th>
<th>750-F-6 <strong>Untitled 1925 October 18</strong></th>
</tr>
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<tbody>
<tr>
<td>Photographer: Veihmeyer, Frank J.</td>
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</tr>
<tr>
<td>Physical Description: 2 glass plate negatives</td>
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<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 51:5</th>
<th>750-G-4 <strong>Untitled undated</strong></th>
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<tbody>
<tr>
<td>Photographer:</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
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<td>Scope and Content Note</td>
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</table>

<table>
<thead>
<tr>
<th>Box 51:6</th>
<th>750-G-5 <strong>Contour irrigation. Vista, California. undated</strong></th>
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</thead>
<tbody>
<tr>
<td>Photographer:</td>
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<tr>
<td>Physical Description: 1 glass plate negative</td>
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<tr>
<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 51:7</th>
<th>750-G-6 <strong>Contour irrigation of vineyard. University Farm, Davis. undated</strong></th>
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</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
</tr>
<tr>
<td>Physical Description: 2 glass plate negatives, 5 prints</td>
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<td>Scope and Content Note</td>
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<thead>
<tr>
<th>Box 51:8</th>
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<tbody>
<tr>
<td>Photographer:</td>
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<tr>
<td>Physical Description: 1 glass plate negative, 2 prints</td>
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<tr>
<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 51:9</th>
<th>750-G-13 <strong>Untitled undated</strong></th>
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<tbody>
<tr>
<td>Photographer:</td>
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<tr>
<td>Physical Description: 1 glass plate negative (broken)</td>
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<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 51:10</th>
<th>750-G-14 <strong>Making terraces North Whittier Hts. Blasting rock for planting trees upper side of picture. 1919 June</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: F.W.S.</td>
<td></td>
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<tr>
<td>Physical Description: 1 glass plate negative, 1 print</td>
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<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 51:11</th>
<th>750-G-22 <strong>Terrace furrows irrigation. Steel pipe laterals and spouts. Maag Ranch Santa Ana Canon. 1919 June</strong></th>
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<tbody>
<tr>
<td>Photographer: F.W.S.</td>
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<td>Physical Description: 1 glass plate negative, 1 print</td>
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<td>Scope and Content Note</td>
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<tr>
<td>Box</td>
<td>Negative</td>
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<tr>
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<td>51:12</td>
<td>750-G-23</td>
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<td>51:13</td>
<td>750-G-24</td>
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<td>51:14</td>
<td>750-G-25</td>
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<td>51:15</td>
<td>750-G-36</td>
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<td>51:16</td>
<td>750-Z-30</td>
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<tr>
<td>51:17</td>
<td>760-A-55</td>
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<td>51:18</td>
<td>760-A-57</td>
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<td>51:19</td>
<td>760-A-60</td>
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<tr>
<td>51:20</td>
<td>760-A-65</td>
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<tr>
<td>Box 51:21</td>
<td>760-A-66 <strong>Untitled undated</strong></td>
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<tr>
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<td>Physical Description: 1 glass plate negative</td>
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<th>Box 51:22</th>
<th>760-A-67 <strong>Untitled undated</strong></th>
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<th>Box 51:23</th>
<th>760-A-68 <strong>Untitled undated</strong></th>
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<th>Box 51:24</th>
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<th>Box 51:25</th>
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<th>Box 51:26</th>
<th>760-A-74 <strong>Untitled undated</strong></th>
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<tr>
<th>Box 51:27</th>
<th>760-A-75 <strong>Untitled undated</strong></th>
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<tr>
<th>Box 51:28</th>
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<tr>
<th>Box 51:29</th>
<th>760-A-77 <strong>Untitled undated</strong></th>
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<td>Physical Description: 1 glass plate negative, 1 print</td>
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<td>Scope and Content Note</td>
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<thead>
<tr>
<th>Box 51:30</th>
<th>760-A-78 <strong>Untitled undated</strong></th>
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<tr>
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<td>Photographer:</td>
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<td></td>
<td>Physical Description: 1 glass plate negative</td>
</tr>
<tr>
<td></td>
<td>Scope and Content Note</td>
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</tbody>
</table>
| Box 52:1 | 760-A-101 *Grape fruit orchard, Imperial Valley. 1929?*  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| --- | --- |
| Box 52:2 | 760-C-1 *Untitled undated*  
Photographer:  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 52:3 | 760-C-8 *Untitled undated*  
Photographer:  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 52:4 | 760-D-2 *Oat and Clover Field, Johnson Farm, Penn Valley, Nevada Co. 1917 August*  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 2 prints  
Scope and Content Note |
| Box 52:5 | 760-D-3 *Oat and Clover Field, Garfield Robson Farm, Penn Valley, Nevada Co. 1917 August*  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note |
| Box 52:6 | 760-D-4 *Alfalfa Field, Casey Farm, Penn Valley, Nevada Co. 1917 August*  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note |
| Box 52:7 | 760-D-5 *Irrigated Wheat Field under well No. 3, Boston Land Co. near Huron. 1918 May 6*  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative, 3 prints  
Scope and Content Note |
| Box 52:8 | 760-D-8 *Barley on San Luis Obispo Sewage Farm. undated*  
Photographer:  
Physical Description: 1 glass plate negative, 3 prints  
Scope and Content Note |
| Box 52:9 | 760-D-9 *Irrigated Pasture, O'Brien Farm, Smartsville. 1917 August*  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note |
| Box 52:10 | 760-D-10 *Untitled undated*  
Photographer:  
Physical Description: 1 negative, 1 glass plate negative, 2 prints  
Scope and Content Note |
Box 52:11 760-D-22 Barley Fields in the area later organized in Baxter Creek Irrigation District. undated
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative, 1 print
  Scope and Content Note

Box 52:12 760-E-2 Progressive crop views. Thompson Seedless vines, showing grapes on vines. Dove Vineyard, Fresno, Cal. undated
  Photographer:
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 52:13 760-Z-101 Experimental Cotton Field on Lands of the Dodge Land Co. west of Nelson. 1917 July
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative, 1 print
  Scope and Content Note

Box 52:14 760-Z-102 Field of Durango Cotton planted by S.J.V. Farm Lands Co. 1917 November
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 52:15 760-Z-103 Field of Egyptian Cotton planted by S.J.V. Farm Lands Co. 1917 November
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 52:16 760-Z-104 Untitled undated
  Photographer:
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 52:17 770-11 Untitled undated
  Photographer:
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 52:18 775-3 Reliance Binkley water meter set in concrete pipe. Terra Bella Irrigation District. 1917 August
  Photographer: Adams, Frank
  Physical Description: 1 glass plate negative
  Scope and Content Note

Box 52:19 775-6 Tipping Buckets of one pint capacity used for percolation determinations. 1917 September
  Photographer: W.A.H.
  Physical Description: 2 glass plate negatives
  Scope and Content Note
<table>
<thead>
<tr>
<th>Box</th>
<th>Description</th>
<th>Photographer</th>
<th>Physical Description</th>
<th>Scope and Content Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>52:20</td>
<td><strong>775-7</strong> Tipping Buckets of one pint capacity used for percolation determinations. 1917 September</td>
<td>W.A.H.</td>
<td>2 glass plate negatives</td>
<td></td>
</tr>
<tr>
<td>52:21</td>
<td><strong>775-8</strong> Suggest current meter for irrigated purposes. 1917 September</td>
<td>W.A.H.</td>
<td>1 glass plate negative</td>
<td></td>
</tr>
<tr>
<td>52:22</td>
<td><strong>775-9</strong> Suggest current meter for irrigated purposes. 1917 September</td>
<td>W.A.H.</td>
<td>1 glass plate negative</td>
<td></td>
</tr>
<tr>
<td>52:23</td>
<td><strong>775-10</strong> New small electric current meter with buoyant turbine. 1917 September</td>
<td>W.A.H.</td>
<td>1 glass plate negative</td>
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</tr>
<tr>
<td>52:24</td>
<td><strong>775-11</strong> Untitled undated</td>
<td></td>
<td>1 glass plate negative</td>
<td></td>
</tr>
<tr>
<td>52:25</td>
<td><strong>775-16-a</strong> Special microtome with which the soil blocks were sliced into thin layers after centrifuging. This view shows one centrifuge cup being taken and another containing soil as it has come from the centrifuge is shown at the left. (Fig. 1 in Tech. Bul. 16 &quot;Moisture equivalent as influenced by the amount of soil used in its determination.&quot; 1924</td>
<td>Veihmeyer, Frank J.</td>
<td>1 glass plate negative</td>
<td></td>
</tr>
<tr>
<td>52:26</td>
<td><strong>785-A-2</strong> Horse Lake, Lassen County. 1917 September</td>
<td>Adams, Frank</td>
<td>2 glass plate negatives, 2 prints</td>
<td></td>
</tr>
<tr>
<td>52:27</td>
<td><strong>785-A-3</strong> View of Butte Lake, Lassen County. 1917 September</td>
<td>Adams, Frank</td>
<td>2 glass plate negatives, 6 prints</td>
<td></td>
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<tr>
<td>53:1</td>
<td><strong>785-A-4</strong> Butte Lake, Lassen Co. 1917 September</td>
<td>Adams, Frank</td>
<td>2 glass plate negatives</td>
<td></td>
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</tbody>
</table>
Box 53:2 785-A-5 Untitled 1917
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 53:3 785-A-6 Butte Lake, Lassen Co. 1917 July
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 53:4 785-A-7 Clear Lake looking south across one of the pear orchards that border the lake. undated
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 3 prints
Scope and Content Note

Box 53:5 785-A-8 Clear Lake from vicinity of Edmunds Farm. undated
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 4 prints
Scope and Content Note

Box 53:6 785-A-9 Clear from the vicinity of the Edmunds farm looking right of Mt. Knocti. undated
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 4 prints
Scope and Content Note

Box 53:7 785-A-10 Looking over a portion of Lakeport water front on Clear Lake. undated
Photographer: Adams, Frank
Physical Description: 2 glass plate negatives, 2 prints
Scope and Content Note

Box 53:8 785-A-11 Clear Lake water front showing piers, fill-in land and Carnegie Library. undated
Photographer: Adams, Frank
Physical Description: 2 glass plate negatives, 2 prints
Scope and Content Note

Box 53:9 785-A-13 Tioga Lake. undated
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 53:10 785-A-14 Upper Twin Lake undated
Photographer:
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 53:11 785-A-22 Untitled undated
Photographer:
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note
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<th>Box 53:12</th>
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<td>Scope and Content Note</td>
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<thead>
<tr>
<th>Box 53:14</th>
<th>785-A-25 <strong>Lake Hemet 1923 August</strong></th>
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<tbody>
<tr>
<td>Photographer:</td>
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<tr>
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<tr>
<th>Box 53:15</th>
<th>785-B-1 <strong>Untitled undated</strong></th>
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<tr>
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<tr>
<th>Box 53:16</th>
<th>785-B-2 <strong>Untitled undated</strong></th>
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<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 53:17</th>
<th>785-B-7 <strong>Point of junction of San Joaquin River and Fresno Slough. 1918 April 02</strong></th>
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<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
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<td>Physical Description: 1 glass plate negative, 3 prints</td>
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<th>Box 53:18</th>
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<th>785-B-22 <strong>Untitled undated</strong></th>
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</table>
Box 53:22  785-B-33 *Untitled undated*
   Photographer:
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

Box 53:23  785-B-34 *Lee Vining Falls at turn of the road. 1918 August*
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 53:24  785-B-35 *Untitled undated*
   Photographer:
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 53:25  785-B-38 *Untitled undated*
   Photographer:
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 53:26  785-B-41 *Untitled undated*
   Photographer:
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 53:27  785-B-43 *Untitled undated*
   Photographer:
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 53:28  785-B-44 *San Joaquin river at crossing east of Dos Palos. undated*
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 53:29  785-B-45 *Untitled undated*
   Photographer:
   Physical Description: 2 glass plate negatives, 1 print
   Scope and Content Note

Box 54:1  785-C-4 *Looking north from Butte Creek bridge on Durham Ranch of Stanford University. 1917 December*
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

Box 54:2  785-D-5 *Untitled 1918 October*
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note
<p>| Box 54:3 | 785-E-6 Untitled undated |
| Box 54:4 | 785-E-7 Untitled undated |
| Box 54:5 | 785-Z-53 Camp headquarters, Duty of Water Investigations, Yuba-Nevada Counties, Cal. 1917 August |
| Box 54:6 | 785-Z-60 Looking east from the coastal Mesa, San Diego County between Del Mar and Cardiff. 1917 November |
| Box 54:7 | 785-Z-61 Looking east into Green Valley from the Mesa northeast toward Encintas, San Diego Co. 1917 November |
| Box 54:8 | 785-Z-66 Looking east across the lands of Baxter Creek Irrigation District, Lassen County. 1917 September |
| Box 54:9 | 785-Z-67 Looking east from the Susanville-Doyle Highway toward Honey Lake across the lands of Baxter Creek Irrigation District. 1917 September |
| Box 54:10 | 785-Z-72 Typical cleared and planted section of Paradise Irrigation District. 1917 July |
| Box 54:11 | 785-Z-87 Typical Unirrigated Almond section in hills back of Paso Robles. 1918 May 22 |</p>
<table>
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<tr>
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<tr>
<td>54:12</td>
<td>785-Z-88</td>
<td>Portion of Lindsay-Strathmore Irrigation District showing developed and undeveloped land, looking southwest from main booster station. 1918 May 7</td>
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<td>Portion of Rancho de Kaweah purchased by Lindsay-Strathmore Irrigation District for collecting basin. 1918 May 7</td>
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<th>785-Z-220 <strong>University Farm, Ralph Robertson, at the backboard. circa 1917</strong></th>
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<tr>
<th>Box 55:6</th>
<th>785-Z-251 <strong>House Document 359 International Water Commission Report, United States and Mexico, Desert scene, similar to others found in this document. 1928</strong></th>
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<th>790-1 <strong>Records used in the Silvies River adjudication, Oregon. undated</strong></th>
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<td>Box 55:13</td>
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<tr>
<th>Box 55:17</th>
<th>790-13 Diagram showing extent of moisture movement from Irrigation Furrows. Sandy Loam Soil. 1, 4, 8, 26, 48, and 72 hours after beginning irrigation. University Farm, Davis. 1925</th>
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<td>Photographer: Vehmeyer, Frank J.</td>
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<tr>
<th>Box 55:18</th>
<th>790-15 Portable &quot;Concrete forms&quot; for irrigation alfalfa headgate. 1920</th>
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<th>Box 55:19</th>
<th>790-16 Alfalfa headgate. Single wall. undated</th>
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Box 55:23  795-B-1 Untitled undated  
Photographer:  
Physical Description: 1 glass plate negative, 2 prints  
Scope and Content Note

Box 55:24  795-B-4 Untitled undated  
Photographer:  
Physical Description: 1 glass plate negative, 2 prints  
Scope and Content Note

Box 55:25  795-B-5 Untitled undated  
Photographer:  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note

Box 55:26  795-B-6 Untitled undated  
Photographer:  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 55:27  795-B-7 Untitled undated  
Photographer:  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note

Box 55:28  800-A-b-2 Newly planted alfalfa checks with rye on borders - Delhi Irrigation Experimental Tract 1921 Spring  
Photographer: Adams, Frank  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 55:29  800-B-a-1 Rice field - Cortena Station. Looking northwest. 1919  
Photographer:  
Physical Description: 1 glass plate negative, 1 print  
Scope and Content Note

Box 55:30  800-B-a-2 Showing changing water vs. stagnant water - Stagnant plot on left: changing on right. 1919  
Photographer: Dunshee, Carroll F.  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 55:31  800-B-a-3 Rice Experiments - depth of submergence 1919  
Photographer: Dunshee, Carroll F.  
Physical Description: 1 glass plate negative  
Scope and Content Note

Box 55:32  800-B-a-4 Changing water - Plot D-10. Exp. Sta. - Spaulding Ranch. 1919  
Photographer: Dunshee, Carroll F.  
Physical Description: 1 glass plate negative  
Scope and Content Note
Box 55:33 800-B-a-5 Plots A-7 and A-8 - Norman. Land too strong in alkali for rice production. 1919
   Photographer: Dunshee, Carroll F.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 55:34 800-B-a-6 University of California temporary rice experiment station, Cortena, California. Sept. 29, 1922. View of Plot #1 seeded and submerged April 15, 1922. Rice seed broadcasted at rate of 150 pounds per acre prior to submergence. undated
   Photographer: Dunshee, Carroll F.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 55:35 800-B-a-7 View of Plot 60. Broadcasted at rate of 150 lbs per acre and submerged continuously. Submerged April 25, 1922. 1922 September 29
   Photographer: Dunshee, Carroll F.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 55:36 800-B-a-9 Cortena. Check plot drilled at rate of 150 lbs. per acre. Irrigated 5 times to germinate seed and bring plants 4-5 inches high. Plants were submerged 30 days after emergence from the soil. 1922 September 29
   Photographer: Dunshee, Carroll F.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 56:1 800-B-a-10 View of Plot #18 at Cortena. This plot was not plowed. The plot was submerged 6 inches and seeded in water at rate of 150 lbs. per acre. Note poor stand of rice and heavy growth of cat tails. 1922 September 29
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 56:2 800-B-a-11 Univ. of Calif. Rice Experiment Station, Cortena. 1922 September 29
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note
   This rice was drilled 1 inch deep and irrigated 5 times to germinate seed and bring plants to height of 4 to 6 inches. Submergence began 30 days after plant emerged from the soil. Note the poor stand of rice and heavy growth of weeds resulting from this method.

Box 56:3 800-B-a-12 Submerging rice plots at Cortena 1922
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 56:4 800-B-a-22 View across check plot at University Rice Exp. Sta, Cortena undated
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note
   Seed was drilled and irrigated 5 times prior to submergence. Submergence began 30 days after plants emerged from the soil. Note foul growth and rather poor stand of rice.
Box 56:5 800-B-a-28 Beginning submergence of plots at University of California Rice Experiment Station, Cortena, California. 1922 April 26
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 56:6 800-B-a-30 Group of rice growers attending demonstration at Cortena. 1922 September
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 56:7 800-B-a-31 Rice plots, Cortena. 1923
   Photographer: Adams, Frank
   Physical Description: 2 glass plate negatives, 3 prints
   Scope and Content Note

Box 56:8 800-B-a-33 Plot 61, Cortena. Rice submerged continuously to depth of 8 inches. 1924
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 56:9 800-B-a-34 Plat experiments - rice. Willows. 1919
   Photographer: Dunshee, Carroll F.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 56:10 800-B-b-56 Tank #6, Cortena 1923
   Photographer: 
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 56:11 800-B-b-57 Tank #1 - Cortena undated
   Photographer: 
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 56:12 800-B-e-1 Weir and water register E.L. Adams rice field used in experiments - 1914-18 1916
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note
   Slide no 75H141

Box 56:13 800-B-e-22 Rectangular weir and register measuring water to E.L. Adams rice field, 1924
   Photographer: Dunshee, Carroll F.
   Physical Description: 1 glass plate negative
   Scope and Content Note
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<tr>
<th>Box 56:14</th>
<th>800-B-z-2</th>
<th>Rice Field near Gridley, California, - Badly Infested with Weeds. 1915</th>
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<th>Box 56:15</th>
<th>800-B-z-11</th>
<th>Harvesting Rice near Gridley, California. 1917 November</th>
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<th>Box 56:16</th>
<th>800-B-z-12</th>
<th>Rice field west of Biggs during early irrigation prior to submergence. 1918 May 31</th>
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<tr>
<td>Scope and Content Note</td>
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<tr>
<td>The stand is shown drilled in the immediate foreground. This is one of the several fields farmed in 1918 by E.L. Adams, formerly of the Rice Experiment Station at Biggs, and shows some of the best preparation and levee construction to be found in Sacramento Valley.</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Box 56:17</th>
<th>800-B-z-13</th>
<th>Berry and Adams Rice Field near Marysville. 1918 November</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
<td></td>
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<thead>
<tr>
<th>Box 56:18</th>
<th>800-B-z-14</th>
<th>Plat in Norman Experimental Rice Field. 1918 November</th>
</tr>
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<tbody>
<tr>
<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 56:19</th>
<th>800-B-z-19</th>
<th>Rice field at U.S. Rice Field Station, Biggs, Calif. One-fifth acre plot at U.S. Rice Field Station Biggs on which submergence was begun 30 days after emergence of plants. undated</th>
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<tbody>
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<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 56:20</th>
<th>800-B-z-20</th>
<th>View of rice field just before maturity of crop. Note drooping of heads. undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
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<td></td>
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<td>Scope and Content Note</td>
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<table>
<thead>
<tr>
<th>Box 56:21</th>
<th>800-B-z-21</th>
<th>Rice Field, Marysville, Calif. (Owned by F. Adams) undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photographer:</td>
<td></td>
<td></td>
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<td>Scope and Content Note</td>
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</table>
Box 56:22  800-B-z-23 Drooping Heads in a Rice Field near Biggs, at the Time Water was Turned Off. Background purposely out of focus. undated
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 56:23  800-B-z-24 Rice Field Near Biggs, California, Showing Drooping of Heads, at the Time Irrigation Water is Turned Off. undated
   Photographer: Adams, Frank
   Physical Description: 2 glass plate negatives
   Scope and Content Note

Box 56:24  800-B-z-26 Section of Experimental Irrigation Plat, Rice Experiment Station, Biggs, Cal. undated
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

Box 56:25  800-B-z-27 A Sacramento Valley rice field showing drooping of heads at the ripening period when irrigation water is drawn off. undated
   Photographer:
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 56:26  800-B-z-28 Wild ducks - Spaulding Ranch 1919
   Photographer: Dunshee, Carroll F.
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 56:27  800-B-z-29 Submerging rice checks - Jones rice field, near Willows 1924
   Photographer: Adams, Frank
   Physical Description: 1 negative, 1 glass plate negative, 3 prints
   Scope and Content Note

Box 56:28  800-B-z-30 Group of rice growers at University of California temporary rice experiment station. 1922 September 29
   Photographer:
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 56:29  800-B-z-31 Group of rice growers at Univ. of Calif. temporary Rice Exp. Sta., Cortena, Calif. Listening to Professor Charles F. Shaw. 1922 September 29
   Photographer:
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 56:30  800-B-z-32 Group of rice growers at Cortena 1922 September 29
   Photographer:
   Physical Description: 1 glass plate negative
   Scope and Content Note
Box 56:31 800-B-z-33 **Group of rice growers at Cortena. 1922 September 29**
Photographer:
Physical Description: 1 glass plate negative
Scope and Content Note

Box 57:1 800-B-z-34 **Group of rice growers at University of California temporary 1922 September 29**
Photographer:
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 57:2 800-B-z-78 **Threshing rice on Spaulding Ranch 1919**
Photographer:
Physical Description: 1 glass plate negative
Scope and Content Note

Box 57:3 800-B-z-80 **Effect of spotted soil on yield. Plants taken from same plot 1919**
Photographer: Dunshee, Carroll F.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 57:4 800-B-z-81 **Rice 1919. Changing US stagnant water on Alkali and Good Soil. 1919**
Photographer: Dunshee, Carroll F.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 57:5 800-D-a-13 **Filling soil tanks "in place" in Sacramento-San Joaquin Delta Irrigation studies. Crop growing in these tanks surrounded by field planting. 1926**
Photographer: Brown, L.N.
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 57:6 800-D-c-1 **Pasture, left, and Sudan grass, right, C. Schwartz Farm, Pleasant Valley Nevada County, on which Duty of Water is being Measured, 1917. 1917 August**
Photographer: Adams, Frank
Physical Description: 1 glass plate negative, 1 print
Scope and Content Note

Box 57:7 800-D-c-3 **Experimental irrigation of barley, University Farm, Davis, Season, 1918. Field 2, Block 2. 1918 May 22**
Photographer: Veihmeyer, Frank J.
Physical Description: 1 glass plate negative
Scope and Content Note

Box 57:8 800-D-c-4 **Experimental Irrigation, University Farm, Davus, California, Season of 1918. 1918 June 6**
Photographer: Veihmeyer, Frank J.
Physical Description: 1 glass plate negative
Scope and Content Note
Harvesting barley June 6. Yield of grain 2539 pounds per acre.
Box 57:9  800-D-c-5 Measuring water to field crops - Field 7 - Davis 1922
   Photographer:
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

Box 57:10  800-D-c-6 Measuring water to field crops - Field 7 - Davis 1922
   Photographer:
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

Box 57:11  800-D-c-7 Sudan grass - if Field 7. Summer 1922
   Photographer: Wadsworth, H.A.
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note

Box 57:12  800-D-c-8 Hemp on Field 7, University Farm, Davis, California. 1922 Summer
   Photographer: Wadsworth, H.A.
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

Box 57:13  800-D-c-9 Sorghum under irrigation in Field 7 - Davis. Summer 1922
   Photographer: Wadsworth, H.A.
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

Box 57:14  800-E-c-1 Young prune orchard on the experiment irrigation tract interplanted with beans. Davis, Calif. 1918
   Photographer: R.W.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 57:15  800-E-c-3 Irrigation part of experimental prune orchard. Irrigation tract, Davis. undated
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 57:16  800-E-c-4 Looking west in Muir Peach Orchard - Delhi Experimental tract 1921 May
   Photographer: Adams, Frank
   Physical Description: 1 glass plate negative, 2 prints
   Scope and Content Note

Box 57:17  800-E-c-15 Experimental plots in prune orchard, irrigation studies. Branch of the College of Agriculture, Davis, Calif. 1923 October 05
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 glass plate negative
   Scope and Content Note
Series 2. Negatives and prints 1895-1952

**Inventory of the Department of Irrigation Photographs**

<table>
<thead>
<tr>
<th>Box 57:18</th>
<th>800-E-c-16 Experimental irrigation plots, prune orchard, Davis, Calif. (Branch of the College of Agriculture) 1923 October 05</th>
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<tr>
<th>Box 57:19</th>
<th>800-G-a-1 First irrigation of Thompson Seedless vineyard, Delhi Irr. Exp. tract. 1921 May</th>
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<td>Photographer: Adams, Frank</td>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 57:20</th>
<th>800-L-a-9 Cultivation of mulched plots. Santa Clara Valley. 1921</th>
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<tbody>
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<td>Photographer: Veihmeyer, Frank J.</td>
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<tr>
<th>Box 57:21</th>
<th>800-L-a-10 Evaporation and cultivation experiments near Mountain view. About 1922</th>
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<tbody>
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<tr>
<th>Box 57:22</th>
<th>800-L-c-5 Determining the effect of cultivation upon the rate of absorption of irrigation water. 1925 November 13</th>
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<tbody>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 57:23</th>
<th>800-L-c-6 Determining the effect of cultivating upon the rate of absorption of irrigation water. 1925 November 13</th>
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<tbody>
<tr>
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<td>Scope and Content Note</td>
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<tr>
<th>Box 57:24</th>
<th>800-L-c-25 Rate of penetration studies at Davis conducted by S.H. Beckett, F.J. Veihmeyer, and K.B. Tester. 1926 June 7</th>
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<tr>
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<td>Physical Description: 1 glass plate negative</td>
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<td>Scope and Content Note</td>
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<tr>
<td></td>
<td>Mulched plot is on the left; unmulched plot at the right.</td>
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</tbody>
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<table>
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<tr>
<th>Box 57:25</th>
<th>800-L-c-26 Rate of penetration studies at Davis, conducted by S.H. Beckett, F.J. Veihmeyer, and K.B. Tester. 1926</th>
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<tr>
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<td>Photographer:</td>
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<td>Physical Description: 2 glass plate negatives (chipped corner)</td>
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<td>Scope and Content Note</td>
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<tr>
<td></td>
<td>Mulched plot is on left; unmulched plot at the right.</td>
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</table>
Box 57:26  800-M-a-2  Initial weighing of water jacket soil tanks at Pomona sub-station; showing apparatus for lifting and weighing tanks. 1903 July 23  
  Photographer: Stover, Arthur P.  
  Physical Description: 1 glass plate negative, 1 print  
  Scope and Content Note

Box 57:27  800-M-a-3  Weighing soil tanks at time of installation, Tulare sub-station. Average weight of tanks when filled 375 pounds. 1903 May 30  
  Photographer: Stover, Arthur P.  
  Physical Description: 1 glass plate negative  
  Scope and Content Note

Box 57:28  800-M-a-4  Installing soil tanks at Tulare sub-station. 34 soil tanks and one evaporation tank installed. 1903 May 28-30  
  Photographer: Stover, Arthur P.  
  Physical Description: 1 glass plate negative, 1 print  
  Scope and Content Note

Box 57:29  800-M-a-5  Arlington Fruit Company's Ranch, Riverside, Calif. undated  
  Photographer:  
  Physical Description: 1 glass plate negative (broken)  
  Scope and Content Note

Box 57:30  800-M-a-7  Equipment for studying water requirements of prune trees and evaporation losses from soil. Deciduous Fruit Experiment Sta., Mountain View, Cal. 1921 April  
  Photographer: Adams, Frank  
  Physical Description: 1 glass plate negative, 1 print  
  Scope and Content Note

Box 57:31  800-M-a-11  Equipment for water relations studies. Mt. View, California. 1921  
  Photographer: Veihmeyer, Frank J.  
  Physical Description: 1 glass plate negative  
  Scope and Content Note

Box 58:1  800-M-a-13  Equipment for water relations studies. Tank automatically balanced so that small losses of moisture by transpiration could be measured. Mt. View. 1921 May  
  Photographer: Veihmeyer, Frank J.  
  Physical Description: 1 negative, 1 glass plate negative, 1 print  
  Scope and Content Note

Box 58:2  800-M-a-17  Installing water-jacket soil tanks for irrigation investigation at Pomona sub-station. 1903 June 20  
  Photographer: Stover, Arthur P.  
  Physical Description: 1 glass plate negative, 1 print  
  Scope and Content Note

Box 58:3  800-M-a-18  Preliminary trial with automatic balanced tank, Davis. 1919  
  Photographer: Veihmeyer, Frank J.  
  Physical Description: 1 glass plate negative  
  Scope and Content Note
Box 58:4  800-M-a-19 Preliminary trial with automatic balanced tank, Davis, Cal. 1919
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 glass plate negative
   Scope and Content Note

Box 58:5  800-M-a-21 Tanks and weighing equipment used in alfalfa studies. 1929
   Photographer: Huberty, Martin R.
   Physical Description: 2 negatives, 1 glass plate negative, 2 prints
   Scope and Content Note

Box 58:6  800-M-b-4 Pomology No. D-3822. Wilting of plants in humid atmosphere. 1926
   February 10
   Photographer: Hendrickson, A.H.
   Physical Description: 1 glass plate negative, 1 print
   Scope and Content Note
   Slide No. 664

Box 58:7  800-M-b-8 Wilting of plants on continuously moving turn table with constant
   environmental conditions. 1929 March 21
   Photographer: Hendrickson, A.H. - McKinnon, Lewis Ruble
   Physical Description: 1 glass plate negative, 6 prints
   Scope and Content Note
   Slide No. 667

Box 58:8  800-M-b-9 Sunflowers used in wilting experiments. undated
   Photographer: Veihmeyer, Frank J.
   Physical Description: 1 glass plate negative
   Scope and Content Note
   Slide No. 669

Box 58:9  800-M-f-15 Wilting of sunflower undated
   Photographer:
   Physical Description: 1 glass plate negative (broken)
   Scope and Content Note

Box 58:10 800-M-f-16 Availability of water to plants; sunflowers in Yolo clay soil, moisture
   contents 30, 23, 20, 16, 15, 14.5% on successive dates undated
   Photographer:
   Physical Description: 1 glass plate negative, 3 prints
   Scope and Content Note
   Slide No. S-1097 Illustrates the narrow range at which wilting occurs. On Feb. 26 soil
   moisture content was at 30% or field cap. Feb. 27 at 23%; Feb. 28 at 20%; Feb. 29- 16%,
   March 1 - 15%, March 2, 14 1/2%. No noticeable drooping of the leaves until moisture
   content reached 16% and very rapid change between 16% and 15%. Permanently wilted
   at 14 1/2%.

Box 58:11  Miscellaneous undated
   Photographer:
   Physical Description: 7 negatives, 1 glass plate negative, 11 prints
   Scope and Content Note