Sidney T. Harding papers

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Biographical Information
Sidney Twichell Harding was born on October 20, 1883, in Brookfield, Massachusetts. After a boyhood spent in Texas and Kansas, he graduated from the University of Michigan in 1905 with a degree in civil engineering.

Prior to joining the faculty of the University of California in 1914, Harding worked on irrigation projects in various capacities in Washington, Montana, and California. His assignment in California resulted in the first comprehensive inventory of water and land resources of the state; and it brought him into contact with Professor Bernard A. Etcheverry and the University of California. For the next 35 years, the combination of Etcheverry and Harding brought fame to the University in irrigation engineering and produced the graduates and concepts that sparked the development of California's agricultural land.

As Professor of Irrigation, Harding taught such subjects as Irrigation Practice, Water Rights and Organizations, and Operation and Maintenance of Irrigation Systems. His book Operation and Maintenance of Irrigation Systems, published in 1917, was a classic in the field, as was his 1935 treatise Water Rights for Irrigation. Near the close of his tenure with the University he turned his talents to administrative duties, serving as Chairman of the Department of Civil Engineering from 1944 to 1946. In 1949, at the age of 65, Professor Harding retired from the University to devote his full attention to water problems of the West, particularly those of California.

Throughout his career, Harding maintained an extensive consulting activity, advising federal and state agencies as well as private clients on practical and disputed matters of water resource development. Almost every important water project or adjudication case in California and neighboring states called for his expert advice and counsel. From 1940-1954, he participated in the preparation of the Engineer's Joint Council report on National Water Policy. In 1964 he was presented a Certificate of Honor for service to the California Irrigation Districts Association.

Upon graduation from college in 1905, Harding joined the American Society of Civil Engineers. In later years he was President of the San Francisco Section and served as Director of the Society from 1949-1951. He also served two terms on the Executive Committee of the Irrigation Division, including the post of Chairman. The Society presented him with its Royce T. Tipton Award in 1967.

Among Harding's major hobbies were studies of the confined lakes of California and of means of reducing evaporation from water surfaces. Out of his love for California and his long familiarity with the State's struggle to develop and utilize it water came his final book Water in California, published in 1960. It presents a history and an analysis of water conditions in the State. Harding's oral history, A Life in Western Water Development, was published by the Regional Oral History Office, Bancroft Library, in 1967.

Professor Harding died on April 28, 1969 in Berkeley, California.


Collection Scope and Contents
Correspondence; technical reports on various aspects of irrigation; reports and surveys of specific irrigation projects throughout California, and in Colorado, Idaho, Montana, Nevada, and North Dakota; and miscellaneous material relating to water costs and requirements, water rights, groundwater and surface water supply, flood control, legislation, dendroclimatology, enclosed lakes, and the Central Valley Project and Feather River Project in California.

Collection Number
Collection number updated February 2019. Legacy collection number was HARDG. This change was part of a project in 2018/2019 to update the collection numbers for collections in the Water Resources Collections and Archives.

Indexing Terms
The following terms have been used to index the description of this collection in the library’s online public access catalog.

Subjects
Central Valley Project (Calif.)
Feather River Project (Calif.)
Irrigation -- California
Kings River (Calif.)
Lakes -- California
Lakes -- Nevada
Mono Lake (Calif.)
Tulare Lake (Calif.)
Water resources development -- California
Water resources development -- Nevada

Box 1, Item 4  Report on proposed Oakley Project 1914
Box 1, Item 5  The use of irrigation water near Billings, Montana 1913-1914
Box 1, Item 6  Irrigation development in Montana / by S.T. Harding. Bozeman : Montana Agricultural College Experiment Station 1915
Box 1, Item 8  Minidoka Project, Idaho : reports and notes 1915-1919; work on water requirements 1915-1919
Box 1, Item 9  Experiments in the use of current meters in irrigation canals. Washington, D.C. : Dept. of Agriculture 1915

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Box 1, Item 9-1  Flow of irrigation water over soils in different methods of application 1915
Box 1, Item 10  Report on water supply of Honey Lake Basin and adjacent areas, made for State Water Commission of California 1916
Box 1, Item 10-1  Bly, Leon. Report on the irrigation possibilities in the northern part of Honey Lake Valley in Lassen County, California 1917
Box 1, Item 11  Irrigation pumping : articles written or edited by Sidney Twichell Harding that appeared in Journal of Electricity, Power and Gas 1916-1917
Box 1, Item 11-1  Statutory limitations on the duty of water 1916?
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Box 1, Item 13  Report on water requirements of soils in Sunnyside Valley Irrigation District, Washington 1917
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Box 1, Item 14-1  Reconnaissance report of water supply for irrigation in vicinity of Cedarville, Surprise Valley, Modoc County, California 1917
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Box 2, Folder 21  on water supply conditions existing on Feather River and their effect on the Sutter-Butte Canal Company 1919
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Box 2, Item 22  Report on water supply and water requirements for lands irrigated from Los Molinos River 1920
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Box 2, Item 24  Miscellaneous Truckee River reports 1919-1927
Box 2, Item 25  Report on water requirements of lands in the Orland Project and of use of water from Stony Creek below the Orland Project 1918-1922
Box 3, Item 26-1  Bailey, Paul Engineers' report on investigations on the Niles Cone, 1916-1920, State Water Commission of 1916, pages Bailey, engineer, May 1920

Physical Description: 1 volume, bound + 1 folder (4 pieces)

Box 3, Item 27  Progress report on Tulare County investigations, 1921, for State Department of Engineering 1921
Box 3, Item 28  Report on supplemental investigations of water resources in Tulare County for season of 1922 1923
Box 3, Item 30  Investigations of water resources of the drainage area of San Jacinto River and their present and proposed utilization. Sacramento: Division of Water Rights 1922

Physical Description: Filed as: G4743 E2

Box 3, Item 30-1  Preliminary reports on water supply conditions on San Jacinto River Drainage Area and outline of investigations recommended to be undertaken 1921
Box 3, Item 30-2  California. Division of Water Rights Tentative plan of the allotment of the waters of the San Jacinto River, Riverside County, California. Sacramento 1924
Box 3, Item 30-3  Tabulation of stream and diversion records from San Jacinto River on which proposed allotment to the Lake Hemet Water Company and the Fruitvale Mutual Water Company would be based and to which it would be applied 1926-1927
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Physical Description: 1 volume, bound
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Box 5, Item 38  Water storage district procedure 1922-1928
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Box 5, Item 38-1  Discussion of the function of the State Engineer in relation to water storage districts 1922
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Box 5, Item 41  Report on feasibility of increasing the area irrigated by the ditches of the Utica Mining Co 1927
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Box 6, Item 49  Report on classification of land in San Joaquin Valley from the San Joaquin River and Mendota North; and memorandum on land classification 1929-1930
   Physical Description: 1 volume, bound

Box 6, Item 50  Memorandum on tentative areas and water requirements of lands now developed and deficient in ground water supply in southern San Joaquin Valley 1930 June
Box 6, Item 51  Reports made in 1930 and 1931 by S. T. Harding on the costs which irrigation could pay for water in the Southern San Joaquin Valley 1930-1931
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| Box 8, Item 60 | Water supply of Hollister and San Juan Valleys in relation to Federal Land Bank loans 1933 |
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| Box 8, Item 67 | General material relating to water requirements of lands of defendants in Carson River adjudication 1936 |
| Box 9, Item 68 | Water rights for irrigation; principles and procedure for engineers. Stanford University, Calif., Photolith reproduction by the Stanford University Press 1936 (1940 printing) |
| Box 9, Item 68-1 | Federal and state policies with respect to control of water. I, An historical resume and present status of conflicts between federal and state jurisdiction 1957 |
| Box 9, Item 68-2 | Federal and state policies with respect to control of water 1931 |
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| Box 9, Item 69a | Report on the value of the water rights of the East Bay Water Co 1938 |
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| Box 9, Item 71 | Water supply of Utah Lake, July 1937 to December 1940 including derivation of coefficients for the Class A evaporation pan at Utah Lake, Lehi 1941 |
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Box 10, Item 74  Evaporation from Utah Lake 1943


Box 10, Item 76  Harding, S. T., and Roy L. May Report of inventory and appraisal of properties of Empire Water Company in process of condemnation by Stratford Irrigation District 1942

Box 10, Item 78  Harding, S. T., and Roy L. May Report on water supply for Tulare Lake Basin Water Storage District from Kings River, based on storage at Pine Flat Dam and joint operation with Central Valley Project 1943

Box 10, Item 78-1  Harding, S. T., and Roy L. May Report on comprehensive flood control survey report on Sacramento-San Joaquin Basin streams dated February 1, 1945 of the War Department, U. S. Engineer Office, Sacramento, California and comprehensive plan for water resources development, Central Valley Basin, California of the Department of the Interior, approved by the Secretary, November 16, 1945 for the Tulare Lake Basin Water Storage District 1946

Box 10, Item 78-2  Harding, S. T., and W. W. Ivans Irrigation demands of Tulare Lake Basin Water Storage District and draft on storage for use within the district in years of excess water supply 1949

Box 10, Item 79  Report on exclusion of lands of the Portals Corporation from the Arvin-Edison Water Storage District 1943

Box 10, Item 80  Report on Wagon Wheel Gap Reservoir Project. 1 volume, approximately 90 leaves), bound 1944

Box 10, Item 81  Work and organization of the Engineering Materials Laboratory and its relation to consulting engineering practice of its staff 1945

Box 10, Item 82  Effect of pumping for irrigation in Duncan and Safford Valleys on water supply of San Carlos Reservoir 1945

Box 10, Item 83  Records and estimates of water supply and the past diversions from the unregulated flow of Kings River, 1904-1943 1948-1952

Physical Description: 1 volume, bound

Box 10, Item 83a  Reprints of miscellaneous articles and reports on hydrology 1937-1948

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Box 11, Item 84  Inflow to Tulare Lake from its tributary streams 1949

Box 11, Item 84-1  Channel capacities in Kern River 1949

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Box 11, Item 84-3  Changes in lake levels in Great Basin area: three hundred years of record studied to determine trend in available water supply. (Reprinted from Civil engineering for February 1935).

Physical Description: p. 87-90

Box 11, Item 85  Background of California water and power problems. 1950. In: California law review, volume 38, no. 4 October 1950

Physical Description: p. 547-571

Box 11, Item 85-1  The State's interest in the Central Valley Project 1942-1943

Physical Description: 1 folder (22 pieces)

Box 11, Item 85-2  Irrigation organizations 1939
Box 11, Item 85-3 Progress report of subcommittee on state control of the Central Valley Project 1949
Box 11, Item 85-4 Statement of S. T. Harding, consulting engineer, prepared for hearing of House Committee on Public Lands on the acreage limitations of the reclamation law in relation to the Central Valley Project, Fresno, Calif 1947
Box 11, Item 86 Comments on report of December 11, 1950 of the President's Water Resources Policy Commission 1950
Box 11, Item 86-1 National water resources policy 1952
Box 11, Item 86-2 Statutory control of ground water. New York : American Society of Civil Engineers 1953. (Convention preprint paper ; 85
Box 11, Item 87 Association of Western State Engineers, papers and reports by S. T. Harding 1931-1950
Box 11, Item 87-1 Association of Western State Engineers Proceedings of ninth annual conference of the Association of Western State Engineers, December 3-4, 1936, Santa Fe, New Mexico 1936
Box 12, Item 88 Operation of Tulare Lake under present conditions 1951
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Box 13, Item 99 Review of report on depletion of water supplies of Colorado west of Continental Divide 1953
Box 14, Item 100 Office report on the Moffat Tunnel water supply of the Denver Water Department 1954
Box 14, Item 101 Office report on the water supply of the Blue River Project of the Denver Water Department 1954
Box 14, Item 102 Office report on the South Platte sources of water supply of the Denver Water Department 1954
Box 14, Item 103 Harding, S. T., J. R. Iakisch, and C. E. Jacob Report on drainability of lands in the Oahe Unit of the Missouri River Basin Project 1954
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Box 14, Item 105 Value of water right of Nigger Hill Ditch 1955
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Box 14, Item 107  Report on water supply and distribution system for the Carlsbad Municipal Water District 1956
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Box 15, Item 110  Drainage reports for Palo Verde Irrigation District 1949-1956
                           Physical Description: 1 volume , bound

Box 15, Item 111  Storage on Arroyo Del Valle : report to M. pages Whitfield, general manager, Alameda County Water District 1957
Box 15, Item 112  Aldrich, Daniel G., Sterling A. Taylor, and S. T. Harding Review of Department of Water Resources preliminary report on Northeastern counties investigation 1957
Box 15, Item 114  Condemnation of properties of Suburban Water Systems in the Whittier Narrows Reservoir on San Gabriel River, material relating to testimony 1957-1958
Box 15, Item 115  Berrigan, Paul D., John S. Cotton, and S. T. Harding Report of Board of Consultants to Department of Water Resources on proposed Bidwell Bar and Oroville Reservoirs for control and development of Feather River 1959
Box 15, Item 116  1959 legislation to finance the California Water Plan, comments by S. T. Harding October 9, 1959
                           Physical Description: 1 volume, bound

Box 15, Item 116-1  Water rights and the proposed State Water Plan : prepared for presentation at Ninth Annual Conference, Pacific Southwest Council, American Society of Civil Engineers, Pasadena, California 1956
Box 15, Item 116-2  The hassle over the Central Valley Project 1953
Box 15, Item 116-3  Comments on preliminary draft of Project Planning Report No. 2-4.23-4, February 1951, Region 2, U. S. Bureau of Reclamation, entitled North Forks Kings Unit, Kings River Division, Central Valley Project (ultimate plan), California 1951
Box 15, Item 117  The Tieton Main Canal after fifty years of use and recollections of conditions at the time of its construction 1960
                           Physical Description: 1 volume, bound : photographs

Box 16, Item 118  Water in California. Palo Alto, Calif. : N-P Publications c1960
                           Physical Description: Note: WRCA has another copy: G408 J

Box 16, Item 118-2  Irrigation 1946-1947
                           Physical Description: 2 volumes, bound

Box 17, Item 121  Inflow to Pyramid and Winnemucca Lakes and total runoff of drainage area of Truckee River 1961
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Box 18, Item 122  Harding, S. T., and Joseph I. Burns Flooding of Rasmussen lands under pre-1937 and post-1950 conditions 1961
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Box 19, Item 123  Supplement to December 1961 report on water supply of Eagle Lake, California 1963
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Box 20, Item 123-1  Eagle Lake 1935
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Box 21, Item 125  Water supply of Goose Lake in California - Oregon 1962
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Box 24, Item 129  Reports prepared for the Truckee-Carson Irrigation District during 1959-1962 1959-1962
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Box 24, Item 130  History of Humboldt Lake 1962
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Box 25, Item 131  Enclosed lakes, western Great Basin 1962-1963
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  Scope and Contents
  Contents: Oregon lakes and fluctuations of Abert Lake Davis Lake, Oregon Early records on Tule Lake and Lost River in Oregon and California Surprise Valley lakes, California Medicine Lake, California Snag Lake, Lassen Volcanic National Park, California Crater Lake, Lassen County, California Honey Lake, Lassen County, California Horse Lake, Lassen County, California Enclosed lakes in northeastern Nevada History of Owens Lake.

Box 25, Item 132-133  Articles, discussions, and committee reports in publications of the American Society of Civil Engineers : reprints 1916-1965
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Box 26, Item 134-5  The function and duty of water 1918

Box 26, Item 134-6  Effect of war emergency conditions on irrigation water rights and service 1918

Box 26, Item 134-7  What can agriculture afford to pay for irrigation 1927

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| Box 26, Item 140    | **United States. Congress. Senate. Committee on Appropriations Interior Department Appropriation Bill for 1948: hearings before a subcommittee of the Committee on Appropriations, United States Senate, Eightieth Congress, first session, on H.R. 3123, a bill making appropriations for the Department of the Interior for the fiscal year ending June 30, 1948, and for other purposes. Washington, D.C: U.S. Govt. Print. Off. 1947** |

<p>| Box 27, Item 141    | <strong>May, Roy L., and S. T. Harding Flood control in Tulare Lake Basin, Kings County, California 1942</strong> |
| Box 27, Item 142    | <strong>Past water supply derived from history of Pyramid Lake 1961</strong>                    |</p>
<table>
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<th>Box 27, Item 144</th>
<th>Report on appraisal of the water rights of the Boulder Creek District of the Citizens Utilities Company in progress of being condemned by the San Lorenzo County Water District 1965</th>
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<td>Box 27, Item 145</td>
<td>Comments on “Economic evaluation of water, part II, jurisdictional considerations in water resources management, Contribution no. 42, Water Resources Center, University of California, by Harry Erlich pages H. McGauhey 1965</td>
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<td>Box 27, Item 146</td>
<td>Economic report on Cawelo Water District in Kern County, California 1965</td>
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<td>Box 27, Item 147</td>
<td>History of the former Irrigation Department of the University of California at Berkeley 1965</td>
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| Box 27, Item 148| Progress report on irrigable areas and water requirements for consumptive use for lands on Santa Ynez River and tributaries 1930  
  Physical Description: 1 volume, bound |
| Box 27, Item 150| Delhi and Durham State Land Settlement Colonies: memos, correspondence and other materials relating to work of S. T. Harding for the State in 1929-1930 1929-1930  
  Physical Description: 1 volume, bound |
| Box 28, Item 151| Walla Walla River, Washington volume Oregon: notes and memorandum 1934  
  Physical Description: 1 volume, bound |
| Box 28, Item 152| Memos relating to the 1927 ten year program of the U.S. Bureau of Reclamation; and repayment records of Bureau of Reclamation and California Irrigation Districts 1933  
  Physical Description: 1 volume, bound |
| Box 28, Item 153| Agreement between the United States of America and the Department of Water Resources of the State of California for the coordinated operation of the Federal Central Valley Project and the State Feather River and Delta Diversion Project 1960  
  Physical Description: 1 volume, bound |
| Box 28, Item 154| Kings River: correspondence file of S. T. Harding relating to his work on Kings River matters for the Tulare Lake Basin Water Storage District and the Kings River Water Association 1938-1960  
  Physical Description: 1 volume, bound |
| Box 28, Item 156| The Pacific Southwest Water Plan, the record through 1965 1966 |
| Box 28, Item 157| Farm loans and the 160-acre law: reports of Committee of California State Chamber of Commerce 1948-1952  
  Physical Description: 1 volume, bound + 1 folder (13 pieces) |
| Box 29, Item 158| Proposed transfer of the Central Valley Project to the State: file covering participation by S. T. Harding 1945-1950  
  Physical Description: 1 volume, bound |
| Box 29, Item 159| Water conditions in California: special hearing held in the Office of the Superintendent of Banks, San Francisco, March 20, 1931 at 2 pagesm 1931 |
| Box 29, Item 160| Materials relating to the Water Conservation Conference in Chicago, September 7-8, 1944 1944  
  Physical Description: 1 volume, bound |
| Box 29, Item 161| Report on recreational opportunities at proposed Nacimiento Reservoir of the Monterey County Flood Control and Water Conservation District. 1954. 19 leaves |
| Box 29, Item 162| Operation for flood control of the storage projects affecting the Tulare Lake Basin Water Storage District 1949 |
| Box 29, Item 163| Result of litigation over division of flow of Kings River at its lower forks; Water supply of the south fork of Kings River and Tulare Lake under past conditions and under the 1949 Kings River agreement 1950 |
| Box 29, Item 165 | Ivans, W. W., and S. T. Harding | Physical conditions in the Tulare Lake area in relation to the type of agriculture and the size of land ownership | 1950 |
| Box 29, Item 166 | Reports prepared by Engineers of the Tulare Lake Basin Water Storage District, in connection with the flood control projects affecting the district | 1952 |
| Box 29, Item 168 | Engineers Joint Council. The National Water Policy Panel | A water policy for the United States: a critique of the report of the President's Water Resources Policy Commission | 1951 |
| Box 30, Item 172 | Deposition of S. T. Harding in case of United States of America, plaintiff, vs. Tulare Lake Canal Company, defendant | 1966 |
| Box 30, Item 173 | Inflow to Tulare Lake through Cross Creek and Tule Rivers segregated to the sources of its origin | 1951 |
| Box 30, Item 174 | Materials relating to the work of S. T. Harding for the Alameda County Water District in 1957 | 1957 |
| Box 31, Item 175 | Recent variations in the water supply of the western Great Basin. Berkeley, Calif. : Water Resources Collections and Archives 1965. (Archives series report ; no. 16) | 1965 |
| Box 32, Item 176 | Agreement between Lower Tule River Irrigation District and Crockett and Gabogy. Includes correspondence, chiefly related to pumping by C G from wells within the L.R.I.D. Harding represented Crockett Gabogy 1950-1956 | 1950-1956 |
| Box 32, Item 177 | Correspondence and other materials relating to work of S. T. Harding for Denver Water Department. 1953-1955. 1 volume, bound | 1953-1955 |
| Box 32, Item 178 | Transcripts of tape recorded interviews with S. T. Harding by Gerald Giefer for Water Resources Collections and Archives 1964-1965 | 1964-1965 |
| Box 32, Item 179 | Work for the Tulare Lake Basin Water Storage District from 1938 to 1952 1967 | 1938-1952 |
| Box 33, Item 180 | Memorandum on water supply available from San Joaquin River in excess of the probable water requirements of the San Joaquin River Water Storage District 1924 | 1924 |
| Box 33, Item 181 | What did Arizona volume California decide? 1968 | 1968 |
| Box 34, Item 184 | Harding, S. T., and Loran S. Bunte, Jr. Water supply of Monterey County and plans for its use: report prepared for the Monterey County Flood Control and Water Conservation District by its engineers 1957 | 1957 |
| Box 34, Item 185 | Harding, S. T., and Loran S. Bunte, Jr. Supporting materials for report on water supply of Monterey County and plans for its use 1957 | 1957 |
| Box 34, Item 186 | Factual background of the Pelton Dam case 1968 | 1968 |
| Box 34, Item 187 | Water rights for Indian reservations 1969 | 1969 |
| Box 35, Item 188 | Materials relating to miscellaneous lakes 1915-1960 | 1915-1960 |
| Box 35, Item 190 | Variations in the runoff of the Western Great Basin based on tree ring records 1964 | 1964 |

**Sidney T. Harding papers**

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Box 36, Item 192  Water supply of Kings River areas 1924-1926
   Physical Description: 1 volume, bound
Box 36, Item 193  Classification of lands claiming rights the use of water from Kings River: preliminary summary 1926
Box 36, Item 194  Memorandum regarding water supply that might be made available from Kings River for the Tulare Lake Basin Water Storage District 1926
Box 36, Item 195  Use of San Francisco's Hetch Hetchy water supply in Santa Clara County 1959-1960
   Physical Description: 1 volume, bound
Box 36, Item 196  Great Salt Lake: notes and data, reprints, correspondence, maps, etc 1916-1961
   Physical Description: 1 volume, bound
Box 37, Item 197  Federal vs. State water rights 1960
   Physical Description: 1 volume, bound
Box 37, Item 198  Federal water rights in the Western States 1964-1968
   Physical Description: 2 volumes, bound
Box 38, Item 199  Federal vs. State water rights 1964-1967
   Physical Description: 1 volume, bound
Box 38, Item 200  Central Valley Project 1942
   Physical Description: 1 volume, bound
   Scope and Contents
   Includes correspondence, news clippings, memoranda, reports, etc.
Box 38, Item 201  Water right preferences to areas of origin 1949-1957
   Physical Description: 1 folder (13 pieces)
Box 38, Item 202  Climatic cycles and changes, California rainfall, indices of wetness, 1930-1965
   Physical Description: 5 folders approximately 200 pieces
   Scope and Contents
   Includes correspondence, news and journal clippings, maps, data, etc.
Box 38, Item 203  Colorado River Project 1939-1967
   Physical Description: 3 folders (23 pieces)
Box 38, Item 204  Comprehensive plan for water resources development, Central Valley Basin, California and flood control for Sacramento-San Joaquin Basin streams, California 1938-1948
   Physical Description: 1 folder (28 pieces)
   Scope and Contents
   Includes correspondence, memoranda, notes, reports, etc.
Box 39, Item 206  Material relating to rainfall penetration 1903-1937
   Physical Description: 1 volume, bound,
   Scope and Contents
   Includes notes, data, reports, clippings, etc.
Box 39, Item 207  California. Dept. of Water Resources Contracting principles for water service contracts under the California water resources development system 1960
Box 39, Item 208  **California State Water Plans 1956-1960**

Physical Description: 2 folders (16 pieces)
Scope and Contents
Includes correspondence, flyers, notes, etc.

Box 39, Item 209  **Turlock Irrigation District and Modesto Irrigation District Don Pedro Project 1920?**

Box 39, Item 210  **Hetch Hetchy and San Francisco water supply 1908-1932**

Physical Description: 1 folder (11 pieces)
Scope and Contents

Box 39, Item 211  **Evaporation and Horton formula 1936-1947**

Physical Description: 1 folder (5 pieces)

Box 39, Item 212  **Rate of evaporation from storage on Kings River : compilation of available information and conclusions 1950**

Box 39, Item 213  **Kings River contracts in relation to use of Pine Flat for irrigation 1963**

Physical Description: 1 folder (12 pieces)

Box 39, Item 214  **Enclosed lakes, glaciers and climatic change 1935-1966**

Physical Description: 1 folder (27 pieces) : photographs

Box 39, Item 215  **Lakes : lakes in New Zealand, enclosed lakes of the Western Great Basin, and lake fluctuations 1930-1965**

Physical Description: 4 folders (66 pieces)
Scope and Contents
Includes correspondence, notes, maps, etc.; also includes information on glaciers in New Zealand.

Box 39, Item 216  **Derivation of the future water requirements of the Lake Tahoe Basin : comments on the results of the California Department of Water Resources 1959**

Box 39, Item 217  **Salt River Project, Arizona 1929-1935**

Physical Description: 1 folder (21 pieces)
Scope and Contents
Includes news clippings, journal articles, etc.

Box 40, Item 218  **Tulare Lake Basin Water Storage District : runoff and canal diversions 1922-1932**

Physical Description: 1 folder (28 pieces)
Scope and Contents
Includes charts, graphs, etc. for various District canals and rivers.
Box 40, Item 220  
**Materials on U.S. Bureau of Reclamation: crop values, repayment relief in the 1930's repayment plans, repayments to 1933, long term requirements, and ten-year plan 1927-1937**

Physical Description: 6 folders (113 pieces)
Scope and Contents
Includes charts, graphs, etc. for various District canals and rivers.

Box 40, Item 221  
**Water resources development projects of U. S. Bureau of Reclamation 1930-1955**

Physical Description: 4 folders (21 pieces)
Scope and Contents

Box 40, Item 222  
**Feather River Project of California 1957-1959**

Physical Description: 1 folder (8 pieces)
Scope and Contents
Includes correspondence, reports, maps, etc.

Box 40, Item 223  
**Western water rights 1956-1962**

Physical Description: 1 folder (5 pieces)

Box 40, Item 224-1  
**Notes for courses Irrigation 101, University of California, Department of Irrigation 1931**

Scope and Contents
Includes materials on history of irrigation development in the U.S., riparian rights, appropriation rights, groundwater, water rights, irrigation organizations, etc.

Box 40, Item 224-2  
**Notes for courses Irrigation 113, University of California, Department of Irrigation 1931**

Physical Description: 1 folder (10 pieces)
Scope and Contents
Includes materials on: measurement of water; irrigation organizations, methods of operation and water rights; projects constructed with federal funds; capacity of reservoirs and outlets for use with small pumping plants; methods of reducing seepage in earth reservoirs; notes on valuation of water rights methods; and rate of development of irrigation projects.

Box 40, Item 225  
**California State Water Plan 1924-1931**

Physical Description: 1 folder (63 pieces)
Scope and Contents
Includes correspondence, memoranda, notes, tables, charts, reports, data, etc.

Box 40, Item 226  
**Notes on transfers of public utilities 1927**

Box 40, Item 227  
**Pump irrigation, irrigation and drainage water, south and east of Bakersfield and south of Kern River 1920?**

Box 40, Item 228  
**Veihmeyer, Frank J. Citations of some references to soil moisture and moisture holding capacity of soils 1924**