
Inventory of the Robert Mower Hagan Papers

Sara Gunasekara

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Creator: Hagan, Robert Mower, 1916-

Title: Robert Mower Hagan Papers

Date (inclusive): 1901-1993

Extent: 33.2 linear feet

Abstract: Robert Mower Hagan (1916-2002) served as Professor of Water Science at the University of California, Davis from 1948-1987. The Hagan Papers contain writings, teaching files including class lecture notes and background materials, as well as subject files which contain materials on topics such as the peripheral canal and Delta water management. The collection provides documentation of the politics of California's water in the late twentieth century.

Physical location: Researchers should contact Special Collections to request collections, as many are stored offsite.

Repository: University of California, Davis. General Library. Dept. of Special Collections.

Davis, California 95616-5292

Collection number: D-348

Language of Material: Collection materials in English.

Biography

Robert Mower Hagan was born in Oakland on December 6, 1916 to Hugh Lawrence Hagan and Geneva Mower Hagan. He received his B.S. in Chemistry (1937) and an M.S. in Soil Physics (1941) from the University of California, Berkeley and his Ph.D. in Soil Science and Plant Physiology (1948) from the University of California, Davis.

During the Second World War, Hagan served as a commissioned officer for six years and taught military science to ROTC students at UC Berkeley.

Hagan served as Professor of Water Science at the University of California, Davis from 1948-1987.

He passed away on July 3, 2002.

Source:

"Robert Hagan Obituary" in the *Davis Enterprise*, July 17, 2002.

Scope and Content

The Hagan Papers contain writings, teaching files including class lecture notes and background materials, as well as subject files which contain materials on topics such as the peripheral canal and Delta water management. The collection provides documentation of the politics of California's water in the late twentieth century.

Arrangement of the Collection

The collection is arranged in eight series: 1. Biographical Materials, 2. Works by Hagan, 3. Speeches and Talks, 4. Teaching Files, 5. Subject Files, 6. Audiovisual Materials, 7. Maps and posters, and 8. Ephemera.

Related Materials

Special Collections also holds an oral history interview of Hagan conducted in 2001 by the UC Davis Emeriti Association, AR-074: 145.

Indexing Terms

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

Hagan, Robert Mower, 1916---Archives

University of California, Davis--Faculty--Archives

Water-supply, Agricultural--California

Water in agriculture--California

Water conservation--California

Delta Region (Calif.)

Water resources development

Uncovering California's Environmental Collections Project

Access

Collection is open for research.

Processing Information

Processing of the Robert Mower Hagan Papers was generously funded by the Andrew W. Mellon Foundation, and administered by the Council on Library and Information Resources (CLIR). UC Davis Special Collections was awarded a Cataloging Hidden Special Collections and Archives grant from 2010-2012, "Uncovering California's Environmental

Collections," in collaboration with eight additional special collections and archival repositories throughout the state and the California Digital Library (CDL). Grant objectives included processing hidden collections related to the state's environment and environmental history. The collections document an array of important sub-topics such as irrigation, mining, forestry, agriculture, industry, land use, activism, and research. Together they form a multifaceted picture of the natural world and the way it was probed, altered, exploited and protected in California over the twentieth century. Finding aids are made available through the Online Archive of California (OAC).

Sara Gunasekara processed this collection and created and encoded this finding aid with assistance from student employee Michelle Xie.

Acquisition Information

Gift of Robert M. Hagan in 2000.

Preferred Citation

[Identification of item], Robert Mower Hagan Papers, D-348, Department of Special Collections, General Library, University of California, Davis.

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Series 1. Biographical Materials 1964-1990

Physical Description: 0.25 linear feet

Scope and Content Note

Contains biographical information about Hagan and his University career, some correspondence, and several photographs of Hagan. Arranged alphabetically by title.

Box 1:1

Activities 1972-1975

Box 1:2

Appointment to Cooperative Extension 1972-1976

Box 1:3

Bio-Bibliography 1970-1977

Box 1:4-5

Biographies 1964-1990

Scope and Content Note

Contains biographical sketches written by Hagan as well as some correspondence.

Box 1:6

Foreign assignments and requests 1980-1983

Box 1:7-8

Job description, Cooperative Extension 1971-1986

Box 1:9

Letters of appreciation and congratulations 1972-1987

Scope and Content Note

Contains letters written to Hagan.

Box 1:10

Photographs: Hagan at his desk 1973 January 8

Scope and Content Note

Contains prints, negatives, and contact sheet.

Box 1:11

Photographs: Portrait of Hagan 1974 January 23

Scope and Content Note

Contains 1 print and 1 negative.

Box 1:12

Photographs: Hagan passport photo 1974

Scope and Content Note

Contains prints, negatives, and contact sheet.

Series 2. **Works by Hagan 1941-1990**

Physical Description: 5.75 linear feet

Scope and Content Note

Contains works written and co-authored by Hagan. Also included are reports issued by committees whose membership included Hagan.

Hagan's speeches and talks files are found in Series 3.

Box 2-3

Publications 1941-1986

Physical Description: 13 bound volumes

Scope and Content Note

Contains publications authored or co-authored by Hagan.

Box 4-5; 1:13

Reports 1956-1987

Physical Description: 15 bound volumes

Scope and Content Note

Contains a set of 130 reports authored or co-authored by Hagan. Also included are reports issued by committees whose membership included Hagan.

Box 1:14

An Agricultural Perspective on the California Water Situation 1989 February 1

Box 1:15-16

Agricultural Water Conservation in California, With Emphasis on the San Joaquin Valley 1982 October

Box 1:17

Agricultural Water Conservation in Relation to Projected Water Demands and Supplies in California 1985 April

Box 1:18-19

Agricultural Water Conservation in Relation to Projected Water Demands and Supplies in California 1985 August

Box 1:20

Agricultural Water Conservation in Simplified Perspective, published in California Agriculture 1981 November-December

Box 1:21

Assessing Potentials for Agricultural Water Conservation, published in Western Water 1979 November-December

Box 1:22

California Water Forum, Session II, Summary Report 1984 July 26

Box 1:23

California Water Planning and Policy 1979

Box 1:24

Competition for California Water: Alternative Resolutions 1982

Box 1:25

Concepts for Conserving Agricultural Water, published in Advances in Food-Producing Systems for Arid and Semiarid Lands, Part A 1981

Box 1:26

Crop Response Functions to Irrigation, Fertilizer, and Other Production Factors...Cotton 1970 March 31

Box 6:1

Crop Responses at Excessively High Soil Moisture Levels, published in Drainage of Agricultural Lands 1957

Box 6:2

Ecological Impacts of Water Storage and Diversion Projects, published in Environmental Quality and Water Development 1973

Box 6:3

Energy in Western Agriculture - Adjustments, Alternatives and Policies, progress report 1986

Box 6:4

Energy Requirements of Alternatives in Water Supply, Use, and Conservation: A Preliminary Report 1975 December

Box 6:5

Glossary: A Review of Some Words Which Are Often Used In Water Policy Discussion 1987 July

Box 6:6

Governor's Commission to Review California Water Rights Law, Final Report 1978 December

Box 6:7-8

Incidental Effects of Agricultural Water Conservation 1981 June

Box 6:9

International Source-Book on Irrigation and Drainage of Arid Lands in Relation to Salinity and Alkalinity 1967

Box 6:10

Irrigation of Agricultural Lands, prospectus for monograph 1960

Box 6:11

Irrigation Scheduling: a Guide for Efficient On-Farm Water Management 1989

Box 6:12

Irrigation Water Use in the Central Valley of California 1987

Box 6:13

More Crop Per Drop: Approaches to Increasing Production From Limited Water Resources 1967

Box 6:14	Potentials for Reducing Water Use in Irrigated Agriculture undated
Box 6:15	Predicting Crop Production as Related to Drought Stress Under Irrigation 1982
Box 6:16-17	Proposed Water Policy Actions and Some Possible Impacts in California 1987 June Scope and Content Note Contains the report and drafts of the report, as well as a diskette with Wordstar computer files.
Box 6:18	The San Joaquin Valley Water Puzzle 1984-1985
Box 6:19-21	Water 1990
Box 7:1	Water and Agriculture in the Western U.S.: Conservation, Reallocation, and Markets 1982
Box 7:2	Water Policy Positions in California: Analysis and Discussion undated
Box 7:3	Water Production Functions and Predicted Irrigation Programs for Principal Crops as Required for Water Resources Planning and Increased Water Use Efficiency 1976 July
Box 7:4	Water Scarcity: Impacts on Western Agriculture) 1984
Box 7:5	"Water-Soil-Plant Relations," published in California Agriculture 1957 April
Box 7:6	"What Happens to San Joaquin Valley Agricultural Return Flows?," published in Western Water 1984 November-December
Series 3. Speeches and Talks 1956-1991	
	Physical Description: 1.5 linear feet
	Scope and Content Note Contains files related to speeches and talks that Hagan gave to various groups. The files contain Hagan's notes as well as the background materials he used to prepare the speech or talk. The text of the actual speech or talk is not always included in the file. The series is arranged alphabetically by title.
Box 7:7-19	Bridges Over Troubled Waters Conference 1986-1987 Scope and Content Note Contains Hagan's opening comments, the handout packet, post conference comments, participant list, and transcripts.
Box 7:20-21	Butte Co. Board of Supervisors 1986
Box 7:22-23	California's Water Jigsaw Puzzle: Putting the Pieces Together 1985
Box 7:24	California Water Issues Jigsaw Puzzle: Putting the Pieces Together, Marine Advisors 1986 February 19
Box 7:25	California's Water Jigsaw Puzzle: Putting the Pieces Together, San Joaquin Valley Supervisors Association 1986 October 23
Box 7:26	California Water Scene, Oakland 1990 November 8
Box 7:27	California Water Scene, Redistributing California's Water Resources, California State College, Bakersfield 1986 October 6
Box 7:28	China's Challenge: People vs. Resources, Yuba City Kiwanis 1984 November 8
Box 7:29	Commencement Address at the College of Natural Resources, University of California, Berkeley 1979 June 9
Box 7:30	Committee For Water Policy Consensus, Berkeley - Public Forum 1983 June 18
Box 7:31	Competition for California's Water, Handouts at Intermountain Hay Growers 1981 November 4
Box 7:32	Competition For California's Water: Possible Impacts on Agriculture, Western Growers Association 1982 April 7
Box 7:33	A Conceptual Framework for Evaluating Agricultural Water Conservation Potentials 1979 March 28
Box 7:34-35	Cooperative Extension Statewide Staff Conference: Big Issue Session 1985
Box 7:36	Current Issues 1982-1983
Box 7:37	Delta Hearings: Testimony undated
Box 7:38	Delta, various undated
Box 7:39	General, philosophy, etc. 1973-1981
Box 7:40	Key Issues and Factors Likely to Impact Water 1990
Box 7:41	LAWR 1990

Box 7:42	League of California Cities, Water Policy Subcommittee 1986 December 5
Box 7:43	Major Concerns in California Water Planning undated
Box 7:44	Mariners Club: Peripheral Canal in Contest of California's Water Controversies 1982 April 9
Box 7:45	Mother Lode Section - CSAC San Andreas 1986 June 12
Box 8:1	Northern Counties Supervisors 1987
Box 8:2	Peripheral Canal of California's Water Controversies, Dixon Rotary Club 1982 April 28
Box 8:3	Picnic Day - "California Water Controversies" 1982 April 17
Box 8:4	Pomology: Fruit And Nut Processors 1990
Box 8:5	Reflections on Water and World Food, Oakland 1986 June 22
Box 8:6	Sacramento Valley Venture Capital Forum 1991 March 13
Box 8:7	Salinas River Valley Workshop, King City 1991 January 25
Box 8:8	San Jose Mariners, The California Water Dilemma: Water For Your Future? 1979 September 29
Box 8:9	Source material 1965-1985
Box 8:10	Statement for the California Water Commission 1979-1982
Box 8:11-12	Trustees of the Cal Aggie Foundation 1987 September 10
Box 8:13-15	Various 1990
Box 8:16	Water and Soil Workshop 1980 November 10-13
Box 8:17	Water Conservation in Agriculture 1983
Box 8:18	Water Costs undated
Box 8:19	Water Development and the Environment, Issues of Water Policy in California: A Summary of Viewpoints 1973
Box 8:20	Water issues, notes and transparencies 1991
Box 8:21	Water issues summary, Humboldt County 1986 February 3
Box 8:22	Water Management Problems in Sacramento - San Joaquin Rivers Delta of California 1987 September 14
Box 8:23-24	Water Management: Some Effects of New Societal Attitudes 1975 August
Box 8:25	Water resources briefings, articles and notes 1991
Box 8:26	Why Argue About Irrigation? Second Annual California Conference for Processors' Fieldmen, Davis, and Pack Fieldmen Conference, Merced 1956 January 10-February 28
Box 8:27	Winters Rotary and Sacramento Board of Realty 1981
Box 8:28-29	Woodland Masonic Lodge 1987-1988
Box 8:30	World Resources Institute, Policy Workshop, Tucson 1986 February 20-21
Box 8:31	Yolo County Board of Supervisors 1987 December 15
Box 8:32	Yuba - Sutter Supervisors Briefing 1986-1987

Series 4. **Teaching Files 1956-1987**

Physical Description: 12 linear feet

Scope and Content Note

Contains files from courses that Hagan taught or co-taught.

Arranged in five subseries: 1. General, 2. Resource Sciences 98, 3. Water Science 2, 4. Water Science 10, 5. Water Science 100.

Series 4.1 **General 1970-1987**

Physical Description: 0.5 linear feet

Scope and Content Note

Contains files related to graduate groups and non Water Science courses that Hagan participated in. Arranged alphabetically by title.

Box 8:33	Agronomy 100 1985-1987
Box 8:34	Agronomy 198 1976
Box 8:35	Ecology 200: California Environmental Studies 1980 Fall
Box 8:36	Ecology Graduate Group 1980-1985
Box 8:37	EST 190 Proposal 1982

Box 8:38	General Educational Program 1979-1984
Box 8:39-40	Grading, Conduct, etc. 1978-1986
Box 8:41	Graduate Student Manual, excerpts from 1982
Box 8:42	IAD Graduate Group 1981-1983
Box 8:43	Irrigation Management Short Course 1981 Summer
Box 8:44	Plant Physiology 1976-1982
Box 8:45	Related Courses 1972-1973
Box 8:46	RS 101 1986 February 26
Box 8:47	RS 190: Environmental Impacts of Water Projects 1970 Fall
Box 8:48	Shimura, Hiroyasu. Visiting Scholar from Yokohama, Japan 1985
Box 8:49	Singh, Harbir. Unesco Fellowship 1980 March 28
Box 8:50	Soil and Water Science Undergraduate Group 1985
Box 8:51	Soil Science Graduate Group 1981-1986
Box 8:52	Special Lecture on California Water Plan for Ecology 230 (Delwiche) 1976 November 23
Box 8:53; 9:1	Student evaluations 1971-1984 Scope and Content Note Contains evaluations completed by students for the following Water Science courses taught by Hagan: WS 10, WS 100, and WS 200.
Box 9:2	Vegetable Crops 290 1984
Box 9:3	Water Related Courses at Other Universities 1977
Box 9:4	Water Science Graduate Group 1976-1986
Box 9:5	Water Science 190 undated

Series 4.2 **Resource Sciences 98 1974-1984**

Physical Description: 0.25 linear feet

Scope and Content Note

Conains files related to Resource Sciences 98: Perspectives in Resources Sciences.
Arranged alphabetically.

Box 9:6-7	Background Information 1981
Box 9:8-9	Backup Information on Planning Other Courses, Resource Material 1974-1981
Box 9:10	Budget 1981 Fall
Box 9:11	Correspondence and notes 1981 November 30
Box 9:12	Organization and Introduction 1981 October 5
Box 9:13	Outline 1981 October 12
Box 9:14	Proposal to change RS 98 to RS 1 1981-1984

Series 4.3 **Water Science 2 1971-1980**

Physical Description: 0.75 linear feet

Scope and Content Note

Materials related to the course, Water Science 2: Introduction to Water Science.

Box 9:15-18	Background Materials 1977-1978
Box 9:19-20	Case Study Lectures 1978
Box 9:21	Correspondence 1978
Box 9:22	Course Materials 1977
Box 9:23	Delta Case Study Lectures 1976
Box 9:24	Delta Water Issues 1974-1980
Box 9:25-26	Student Evaluations 1975-1978
Box 9:27-28	Handouts 1976 Winter
Box 9:29	Introduction 1976
Box 9:30	Lecture 2 1975 March 12
Box 9:31	Outline 1974
Box 9:32	Planning 1971-1974

Box 9:33 **Schedule 1977 Spring**
Box 9:34 **Source Material 1976 Winter**
Box 10:1-2 **Syllabus 1975-1976**
Box 10:3 **Topic 1: The Water Problem 1974**

Series 4.4 **Water Science 10 1956-1987**

Physical Description: 9.5 linear feet

Scope and Content Note

Materials related to the course, Water Science 10: Water and Society.

Box 10:4 **As General Education Course 1981-1987**
Box 10:5-14 **WS-10: Course Description and Class Outlines 1979-1987**
Box 10:15-23 **Evaluations 1978-1985**
Box 10:24-42 **Exams 1982-1987**
Box 10:43-45 **Handouts 1986-1987**
Box 10:46-83 **Handouts, Topic 1-16 1984-1987**
Box 10:84 **Introduction: Perceptions of California's Water Problem 1987 Spring**
Box 11:1 **Lecture Notes 1980 Spring**
Box 11:2-5 **Planning 1982-1986**
Box 11:6-7 **Project 1984-1985**
Box 11:8 **Registration Section 1 1986 Spring**
Box 11:9 **Renaming WS-10 "Water and Man" to "Water and Society" 1984 January**
Box 11:10 **Reserve Book List 1982 Spring**
Box 11:11-12 **Schedule 1972-1982**
Box 11:13-15 **Source Material 1983-1987**
Box 11:16 **Student Viewpoint 1983 Spring**
Box 11:17-18 **Study Questions 1982-1983**
Box 11:19-33 **Study Questions, Topics 1-16 1984-1987**
Box 11:34-41 **Syllabus 1978-1987**
Box 11:42-43 **TA and Reader 1984-1985**
Box 11:44 **Teaching Plans 1983-1984**
Box 11:45-49 **Term Paper 1982-1987**
Box 11:50 **Textbook 1985-1987**
Box 12:1-2 **Introduction and first lecture 1983-1987**
Box 12:3-7 **Topic 1: Water and Life 1969-1987**
Box 12:8-12 **Topic 2: Water and Civilization 1947-1987**

Scope and Content Note

Includes water and mythology.

Box 12:13-30 **Topic 3: Water and Our Environment 1961-1987**

Scope and Content Note

Includes World's religions, Egypt, droughts, famines, floods, water and social issues, beginning of civilization, hydrologic cycle, nature and importance of water, oceans, effect of water in role of shaping land.

Box 12:31-37;
13:1-11 **Topic 4: Water Supply 1962-1987**

Scope and Content Note

Includes watershed management and snow management, area of impoundment, water supply forecasts, reduction of demand, water pricing, effects of more water activities.

Box 13:12-20;
14:1-13 **Topic 5: Water Quality and Pollution 1956-1987**

Scope and Content Note

Includes water transfers, water banking, Lake Tahoe.

Box 14:14-29; 15:1	<p>Topic 6: Water Law and Rights 1956-1985</p> <p>Scope and Content Note</p> <p>Includes competition and conflict and water laws and rights.</p>
Box 15:2-30; 16:1-7	<p>Topic 7-8: Water Utilization 1957-1987</p> <p>Scope and Content Note</p> <p>Includes irrigation, soils and irrigation, agricultural water conservation, other agricultural uses.</p>
Box 16:8-12	<p>Topic 9: Water Utilization: Municipal and Industrial and Energy Development 1960-1987</p>
Box 16:13-18	<p>Topic 10: Water Utilization: Recreation and Environmental Quality 1966-1987</p>
Box 16:19-31	<p>Topic 11: Flood Control and Land Drainage 1964-1987</p>
Box 17:1-5	<p>Topic 12: River and Reservoir Management Alternatives 1971-1987</p>
Box 17:6-10	<p>Topic 13: Future Supply and Use Alternatives 1975-1987</p>
Box 17:11-24	<p>Topic 14: Water Projects in Economic and Social Development 1964-1987</p> <p>Scope and Content Note</p> <p>Includes economic criteria, water projects in economic and social development, water treatment, characteristics of sewage, methods of waste water disposal</p>
Box 17:25-27; 18:1-10	<p>Topic 15: Water Allocation and Planning 1965-1987</p> <p>Scope and Content Note</p> <p>Includes anticipation and demand, advantages of regional planning, river basins, local versus regional.</p>
Box 18:11-30; 19:1-13	<p>Topic 16: Major Water Projects: California, U.S., and International 1958-1987</p> <p>Scope and Content Note</p> <p>Includes Central Valley Project, Middle East, Israel and area, Tigris and Euphrates, Southeast Asia, Thailand, China, India and Pakistan, Africa, Australia, Central and South America, and Europe.</p>
Box 19:14-20	<p>Topic 17: Water Problems and Solutions of the Future 1969-1987</p>
Box 19:21-22	<p>Topic 18: Summary 1965-1980</p>
Box 19:23	<p>Additional source material not used 1979-1987</p>

Series 4.5 **Water Science 100 1973-1987**

Physical Description: 1 linear foot

Scope and Content Note

Water Science 100 had been previously taught as Water Science 2. Arranged alphabetically.

Box 19:24	<p>Application of Principles 1983</p>
Box 19:25	<p>Background Materials 1983-1986</p>
Box 19:26	<p>Clippings 1983-1986</p>
Box 19:27-29	<p>Delta Water Issues 1973-1987</p>
Box 19:30-32	<p>Evaluations 1982-1986</p>
Box 19:33-34; 20:1-3	<p>Exam Questions 1980-1987</p>
Box 20:4-12	<p>Handouts 1981-1986</p>
Box 20:13	<p>Laboratory Exercises 1986 Winter</p>
Box 20:14-16	<p>Lecture 1: Delta Hydrology 1982-1987</p>
Box 20:17-18	<p>Lecture 2 1982-1987</p>
Box 20:19	<p>Lecture: Delta Case Study 1980 February 29</p>
Box 20:20-21	<p>Lecture notes and background 1979-1984</p>
Box 20:22	<p>New Material 1982</p>

Box 20:23	Organizational Meeting 1983 December 16
Box 20:24-25	Schedules 1982-1985
Box 20:26-27	Syllabus 1981-1986
Box 20:28	Winter Quarter 1985
	Series 5. Subject Files 1901-1993
	Physical Description: 11.5 linear feet
	Scope and Content Note
	Arranged alphabetically.
Box 20:29	ACWA Water Management Committee 1986 March 4
Box 20:30	An Agricultural Dilemma: Drainage Water and Toxics Disposal in the San Joaquin Valley 1986
Box 20:31	Agriculture/Food 1979-1981
Box 20:32	"Area of Origin Statutes: The California Experience" in the Idaho Law Review, Vol. 15 1979
Box 20:33	Appraisal of Total Water Management in the Central Valley Basin California 1972
Box 20:34	Arizona State Water Plan, Alternative Futures 1977 February
Box 20:35	Bibliography, Response to Water Shortage in the Southwestern US undated
Box 20:36	Burns-Porter Act: A California High Water Mark 1984 April
Box 20:37	Buying and Selling Water in California: How Does it Fit into the State's Water Policy Portfolio 1986
Box 20:38	California Economic Development Corporation 1988-1990
Box 20:39	California Region: Appendix 14, Electric Power 1971
Box 20:40	California Water 1980-1983
Box 20:41	California Water Forum II - Handout Packet 1984 July 26
Box 20:42	California Water: Looking to the Future 1987 November
Box 20:43-44	The California Water Plan: Projected Use and Available Water Supplies to 2010 1983 December
Box 21:1	The California Water Plan: Outlook in 1982 1982
Box 21:2	California Water Summary undated
Box 21:3	California's Lifeline: League of Women Voters Water Report 1978
Box 21:4	California's Stream Resources: Volume 1 1982
Box 21:5	Cartoons undated
Box 21:6	Case Studies of Industrial Water Conservation in the San Jose Area 1990 February
Box 21:7-8	Central Valley Agricultural Water Users 1985-1987
Box 21:9	Central Valley Project Water Association: Phase I, Closing Memorandum undated
Box 21:10	Colorado River 1981
Box 21:11	Colorado River featured in Sunset Magazine 1983 May
Box 21:12	Collection of Elementary Water Activities 1988
Box 21:13	Committee for Water Policy, Concord 1987 May 14
Box 21:14-15	Comparisons of Water Policy Issues 1985 October 4
Box 21:16-19	Consensus Forum 1984-1985
Box 21:20-22	Cooperative Extension, Farrell, Kenneth, Vice President Hagan's Letter (WTF Report) 1980-1987
Box 21:23	Cost, Precision, and Value Relationships of Data Collection and Design Activities in Water Development Planning 1967
Box 21:24-25	CSAC-Mother Lode Chapter South Lake Tahoe 1989 September 21
Box 21:26	Decision Problems in Agricultural Development: Proceedings of a NATO Seminar 1966
Box 21:27	Delta Alternatives 1982-1984
Box 21:28	Delta Atlas 1987
Box 21:29	Delta: The Future of the Delta: Conference Proceedings 1981
Box 21:30	Delta 1990-1991
Box 21:31	Delta Negotiations 1976-1982
Box 21:32	Delta Outflow Charts 1987
Box 22:1-8	Delta, various reports 1965-1989
Box 22:9-10	Developing a New Water Plan For California (Part 1,3-5) 1979

Box 22:11	Drought 1977-1984
Box 22:12	Drought Hydrology: Frequency, Severity and Water Balance Impacts of Severe Sustained Drought undated
Box 22:13-14	Drought-Severe Sustained Drought Correspondence 1988-1991
Box 22:15	Ecological Studies of the Sacramento San Joaquin Estuary 1972 June
Box 22:16	Environment 1981
Box 22:17	The Effects of Middle Fork Eel River Development on Wildlife Resources 1969 December
Box 22:18	Eel River Water Council 1966
Box 22:19	Environmental Effects of Arid Land Irrigation in Developing Countries 1978
Box 22:20	Estimating Drought Probabilities in California Using Tree Rings 1990
Box 22:21	Executive Summary, Loads and Resources, Los Angeles Department of Water and Power 1988
Box 22:22	Far East Regional Irrigation Seminar 1961
Box 22:23	Farmland and Open Space in Yolo County 1993 May 8
Box 23:1	Future of the Delta DWR (Lorna Thornton) 1981 March 16-17
Box 23:2	Impact Analyses 1986
Box 23:3	Impact of Water Resources Development 1973 July
Box 23:4	Imperial Irrigation District 1985
Box 23:5	Influence of Price and Rate Structure on Municipal and Industrial Water Use 1984 June
Box 23:6	Information Pertaining to Water Rights in California 1976
Box 23:7	Irrigation, Drainage and Salinity undated
Box 23:8	Irrigation in the World 1955
Box 23:9	Irrigation Water Use and Management 1979 June
Box 23:10	Layperson's Guide to Water Conservation 1981-1982
Box 23:11	Leagues of California Cities: Environmental Quality Committee 1991 January 11
Box 23:12	Management of the California State Water Project 1990 September
Box 23:13	Management of Water in California 1983
Box 23:14	Management of Water in California 1989 June 23
Box 23:15	More Water for Arid Lands 1974
Box 23:16	Mountains to the Bay Tour 1987 June 17-19
Box 23:17	The Nader Report 1972
Box 23:18	The National Study of Water Management During Drought 1991-1993
Box 23:19	The Nations Water Outlook to the Year 2000 1978
Box 23:20	New Hogan Survey Analysis, Molly Penberth 1983-1986
Box 23:21	New Water for You undated
Box 23:22-23	Notes 1987
Box 23:24-26	Office of Drinking Water Health Advisories 1985 September 30
Box 23:27-29; 24:1-14	Peripheral Canal 1965-1982
Box 24:15	Policy Statement on Efficient Water Management for Conservation by Agricultural Water Suppliers 1994 March
Box 24:16-17	Pollutant Policy Document: San Francisco Bay/Sacramento San Joaquin Delta Estuary 1989-1990
Box 25-27	Printed Materials 1955-1991
	Scope and Content Note
	Includes clippings, newsletters, reports, and pamphlets on various water topics.
Box 24:18	Problems Associated with Kern County Groundwater Basin: A Staff Report 1983 July
Box 24:19	Proceedings: Governors Drought Conference 1977
Box 24:20	Putah Creek 1991
Box 24:21	Reconstructing Riverflow in the Sacramento Basin Since 1560 1986
Box 24:22	Recovery Rainfall 1956
Box 24:23	Report of Irrigation Investigations in California 1901
Box 24:24	Report to the Congress: Better Federal Coordination Needed to Promote More Effecient Farm Irrigation 1976 June 22

Box 24:25	Risk, Resources, Costs and Benefits: A Regional Approach to Managing the American River undated
Box 24:26	Runoff undated
Box 24:27	Sacramento Valley Venture Capital Forum 1991 March 13
Box 24:28 ; 28:1-2	San Joaquin 1980-1983
Box 28:3	San Joaquin Valley Agricultural Water Committee 1991
Box 28:4	San Joaquin Ground Water Studies 1980-1981
Box 28:5	SB 200 Referendum 1980-1982
Box 28:6	Shut Off the Water-Water Irrigation Study 1973
Box 28:7	Soil Moisture and Its Availability to Plants by F.J. Veihmeyer 1955
Box 28:8	Solano County, Water Requirement Projections 1987 September
Box 28:9	Southern California Water Committee Report 1987
Box 28:10	State Water Conservation Coalition 1990 December 8
Box 28:11	Stockton East Water District, New Melones Conjunctive Use Project undated
Box 28:12	State Water Conservation Coalition Sacramento 1991 January 14
Box 28:13	State Water Conservation Coalition 1990 November 8
Box 28:14	State Water Resources Conservation Board, SWG #1-3 1990-1991
Box 28:15	State Water Contractors 1988
Box 28:16	State Water Project, Status of Water Conservation and Water Supply Augmentation Plans 1981
Box 28:17	"A Step Away From the Dust Bowl" Newsweek article 1984 June 4
Box 28:18-19	Sutter and Yuba County Water Issues 1986-1987
Box 28:20	Task Force on California's Water Future Report undated
Box 28:21	Technical Working Paper No. 2 For the Water Contracting Environmental Impact Statements 1988 January
Box 28:22	Tehama Colusa Canal Central Valley Project, California, Final Environmental Statement 1972
Box 28:23	Ten Counties Investigation 1971 December
Box 28:24-35	Transparencies 1980-1991
	Scope and Content Note
	Contains transparencies on water management, water issues, water facilities, water supply, water conservation, and water storage.
Box 28:36	Transparencies, energy (E. Roberts) 1978
Box 29:1	Transparencies, index undated
Box 29:2-39	Transparencies, 1-950 undated
Box 30:1-17	Transparencies, 951-1375 undated
Box 30:18	UC ANR Chart of Activities Related to Water Policy undated
Box 30:19	UC Water Task Force: Goals 1983-1986
Box 30:20-21	UC Water Task Force, Leaflets 1984-1986
Box 30:22	UC Water Task Force, Summary Papers 1984
Box 30:23	UC Water Task Force, Water Policy Workshop I: The Next Stage (Hirsch) Handout Packet 1983 October 19-20
Box 30:24	UC Water Task Force, Water Policy Workshop II) 1984 May 2-3
Box 30:25	The Water 1966
Box 30:26	Water Conservation: Ag Water Conservation Incentives 1980-1981
Box 30:27	Water Conservation: Crop Water Requirements / Irrigation 1977-1979
Box 30:28	Water Conservation: Pros and Cons-Water Conservation in Residential, Commercial, and Urban Industrial Areas 1986
Box 30:29	Water Conservation: Urban 1977-1984
Box 30:30	Water Development Future 1980-1983
Box 30:31-33	Water Education Foundation 1990-1991
Box 30:34	Water Education Foundation, Water Atlas 1991
Box 30:35	Water Education Foundation, Board of Directors 1990-1991
Box 30:36	Water Conservation Plan, Supplement 1985
Box 30:37-38	Water for California, Department of Water Resources Bulletin 1970 December
Box 30:39	Water for Peace: A Report of Background Considerations and Recommendations on the Water for Peace Programs 1966

Box 30:40	Water history, general information 1961-1986
Box 30:41	Water Interest: Water For California Moving Toward Concensus, One day Workshop, Sacramento 1986 July 21
Box 30:42	Water Issues: Agriculture 1980-1991
Box 30:43	Water Issues: California 1979-1984
Box 30:44	Water Issues: Future 1978-1983
Box 31:1	Water Issues: General 1978-1982
Box 31:2	Water Issues: Ground Water 1979-1983
Box 31:3	Water Issues: Irrigation 1957-1981
Box 31:4	Water Marketing 1989
Box 31:5	Water Policy/Plan: Agricultural Water Conservation 1978
Box 31:6	Water Policy/Plan: California 1977-1984
Box 31:7	Water Policy/Plan: Conservation 1975-1983
Box 31:8	Water Policy/Plan: Costs 1978-1981
Box 31:9	Water Policy/Plan: Development 1983-1984
Box 31:10	Water Policy/Plan: Distribution undated
Box 31:11	Water Policy/Plan: Energy 1977
Box 31:12	Water Policy/Plan: Agriculture 1978-1982
Box 31:13	Water Policy/Plan: Environmental 1973
Box 31:14	Water Policy/Plan: Federal-Policy/Administration 1978-1981
Box 31:15	Water Policy/Plan: Future 1971-1985
Box 31:16	Water Policy/Plan: General 1976-1979
Box 31:17	Water Policy/Plan: Land Use 1977-1979
Box 31:18	Water Policy/Plan: Management 1977-1983
Box 31:19	Water Policy/Plan: Pollution 1982-1983
Box 31:20	Water Policy/Plan: Projects 1976-1984
Box 31:21	Water Projects 1981
Box 31:22	Water Quality Control Plan for Salinity (Rough Draft) 1988
Box 31:23	Water Quality Control Plan for Salinity (Revised Draft) 1990
Box 31:24	Water Rights 1976-1978
Box 31:25	Water Strategies for the 80's, Summary Report 1982
Box 31:26	Water Strategies for the 80's, Summary Notes 1980
Box 31:27	Water Supply: Agriculture 1970-1982
Box 31:28	Water Supply: California 1977-1985
Box 31:29	Water Supply: clippings, notes, reports 1990
Box 31:30	Water Supply: Future 1977-1985
Box 31:31	Water Supply: General 1981
Box 31:32	Water Supply: Outlook, Conservation of Agricultural Water Use, San Joaquin Valley Resource Management Seminar 1987 December 11
Box 31:33	Water Supply: Management 1975-1981
Box 31:34	Water Supply: Water Projections 1979-1985
Box 31:35	Water Supply: Water Projects 1978-1984
Box 31:36	Water Supply: Reports, Clippings, Notes 1990
Box 31:37	Water Supply: Water Use 1970
Box 31:38	Water Shortage 1981-1982
Box 31:39	Water Supply: Storage 1978-1980
Box 31:40	"Water Transfer Financed by BA," notes 1991 January 8
Box 31:41	Water: Will There be Enough? 1979
Box 31:42	What is the Water Problem? undated
Box 31:43	Weber Foundation Studies undated

Series 6. **Audiovisual Materials 1979-1986****Physical Description:** 1 linear feet**Scope and Content Note**

Contains audiocassettes, films, and videocassettes related to water. Arranged alphabetically by title.

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- Box 32:1 **California Forum: Water 1985**
 Physical Description: 1 videocassette
- Box Oversize **California West Side Story circa 1982**
 Physical Description: 1 film, (26:27 min.)
- Box 32:2 **Competition for Water, by the Western Water Education Foundation undated**
 Physical Description: 2 audiocassettes
 Scope and Content Note
 Contains Programs 1-4: Overview, Great Water Rights, Water for the Cities, The Water Projects.
- Box 32:3 **The Delta: Directions and Decisions, by the Contra Costa Water District undated**
 Physical Description: 2 videocassettes (9:14 min.)
- Box Oversize **Water, film from the East Bay Municipal Utility District circa 1979**
 Physical Description: 1 film
- Box 32:4 **Water: California's Future, by the Southern California Water Committee (Produced and Directed by David Frizzelle) undated**
 Physical Description: 1 videocassette (13:53 min.) and transcript
- Box 32:5-8 **Water Choice in California, by the UC Cooperative Extension Water Task Force 1984-1986**
 Physical Description: 1 audiocassette, transcript, and 129 color 35mm slides
- Box Oversize **The Water Famine undated**
 Physical Description: 1 film

Series 7. **Maps and posters 1976-1977**

- Physical Description:** 0.8 linear feet
Scope and Content Note
 Arranged alphabetically by title.
- Box 34 **California Water Map, by the Water Education Foundation undated**
 Box 34 **California's Water System, by the Water Education Foundation undated**
 Physical Description:
- Box 34 **Colorado River Water Map, by the Water Education Foundation undated**
 Box 34 **Hydrologic Balance for California, by the Department of Water Resources 1977 November**
- Box 34 **The Hydrologic Cycle, by the Water Education Foundation undated**
 Box 34 **Optional and Mandatory Decisions to Provide Delta Protection and Adequate Water Supplies 1976**
- Box 35 **Peripheral Canal Plan, Sacramento San Joaquin Delta undated**
 Box 35 **Plan of Development, Sacramento San Joaquin Delta, by the Department of Water Resources undated**
- Box 34 **Reconnaissance of the Tulares Valley, 1850 (reproduction) undated**
 Box 34 **The Sacramento Valley from the American River to Butte Creek, 1849 (reproduction) undated**
- Box 34 **Sketch of General Riley's Route Through the Mining Districts, 1849 (reproduction) undated**
- Box 35 **State of California Water undated**

Series 8. **Ephemera undated**

Physical Description: 0.4 linear feet

Box 33:1
Box 33:2

Dowsing stick used as part of WS 10 undated
Moisture meter undated