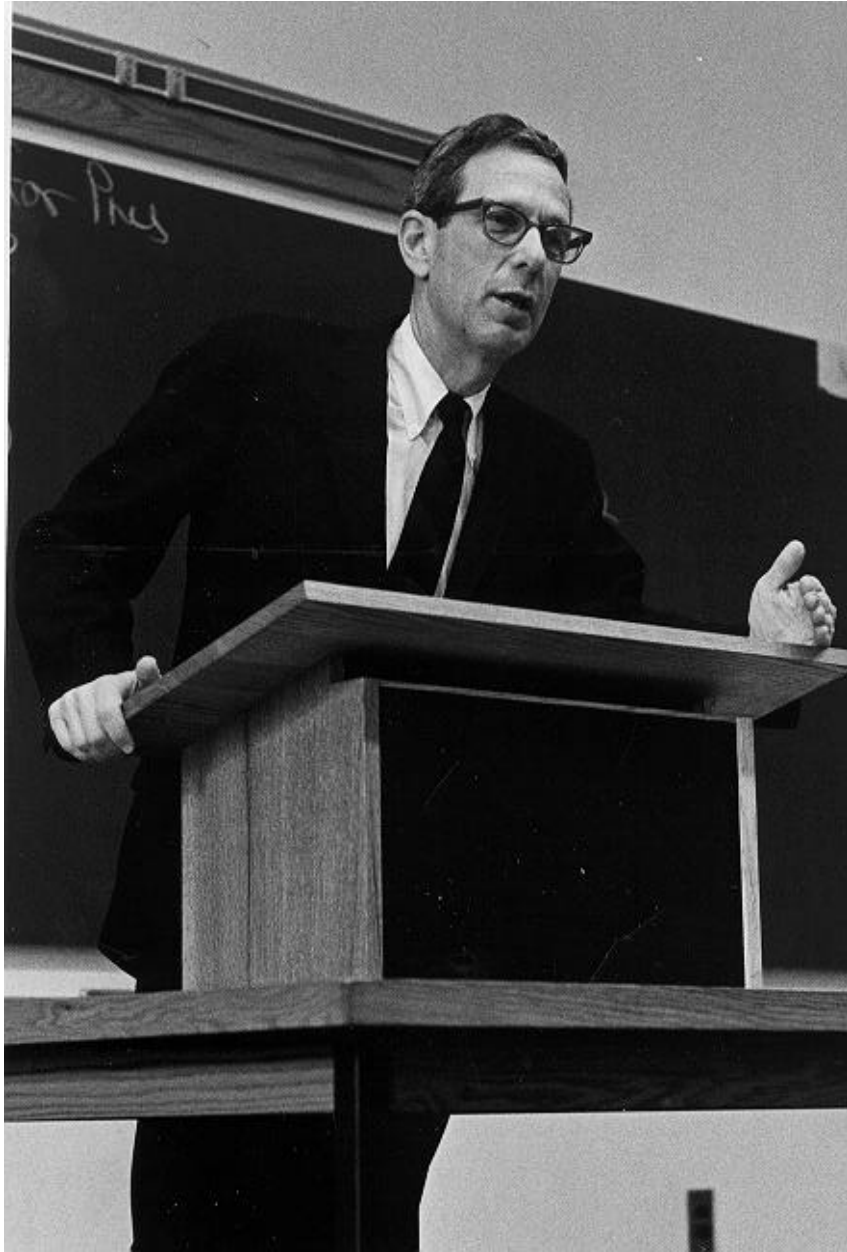


<p>CEHO Engineer Pamphlet 870-1-36</p>	<p>Department of the Army U.S. Army Corps of Engineers Washington, DC 20314-1000</p>	<p>EP 870-1-36 1 February 1990</p>
	<p>REGISTER OF THE ARTHUR MAASS PAPERS</p>	
	<p>Distribution Restriction Statement Approved for public release; distribution is unlimited.</p>	

REGISTER OF THE ARTHUR MAASS PAPERS

**Compiled by
K. Alan Snyder**

**Office of History
United States Army Corps of Engineers
Fort Belvoir, Virginia
1990**



Arthur Maass lecturing at Harvard in 1966.

Library of Congress Cataloging in Publication Data

United States. Army. Corps of Engineers. Office of History.

Register of the Arthur Maass papers / compiled by K. Alan Snyder.

p. cm.

Includes bibliographical references.

1. Maass, Arthur--Archives--Catalogs. 2. Water resources development--Government policy--United States--History--20th century--Sources--Bibliography--Catalogs.

3. United States. Army. Corps of Engineers. Office of History--Catalogs. I. Maass, Arthur. II. Snyder, K. Alan. III. Title.

TC423.U46 1990

333.91'15'0973--dc20

89-600231

First Printing

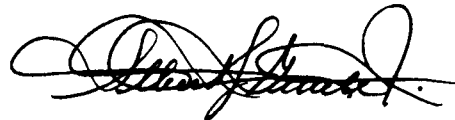
EP 870-1-36

Foreword

Arthur Maass is one of the major figures in the development of water policies and planning procedures in the post-World War II era. An early critic of Corps of Engineers planning procedures, as evidenced in his well-known book Muddy Waters, he later headed the Harvard Water Program, which contributed substantially to the rise of multiobjective river basin planning. He has written influential studies on economic analysis and institutional relationships as they affect water resources development. He also has served as an adviser on water issues to the Tennessee Valley Authority, the Bureau of Reclamation, the People's Republic of China, and the Corps.

Professor Maass donated his voluminous papers to the Office of History of the Army Corps of Engineers in 1984. The papers cover all aspects of his involvement in natural resources issues as well as his teaching career at Harvard. They are an important source on the evolution of federal water management in the so-called big dam era. Historians, planners, social scientists, lawyers, and others interested in water resources issues will find much of interest.

The Maass Papers complement several other collections held by this office, including the papers of Henry P. Caulfield, Jr., Gilbert White, Harry Schwarz, and Howard L. Cook. Eventually, all collections will be inventoried, and registers will be available in typewritten format in the Office of History or, on a selective basis, in published form.



ALBERT J. GENETTI, JR.
Colonel, Corps of Engineers
Chief of Staff

The Compiler

K. Alan Snyder, a consultant in history and education, holds M.A. degrees in history and educational administration. He is completing work on his Ph.D. in history at The American University, Washington, D.C.

Preface

The Office of History, Headquarters, U.S. Army Corps of Engineers, is assigned the task of preserving and documenting the activities of the Corps. To help accomplish this mission, the office collects, maintains, and inventories documents relating to Corps history.

Along with official records of the Corps and personal papers of officials of the Corps, the office accepts personal papers of distinguished people who have influenced the development of Corps policies and programs. The accession of the Arthur Maass Papers and the publication of this guide are important steps in this expanding program.

The Arthur Maass Papers are located in the Corps of Engineers Archives, ATTN: CEHO-S-H, Kingman Building, Fort Belvoir, Virginia 22060-5577. Interested researchers should contact the office for more information.

The compiler would like to acknowledge the efforts of two historians in the Office of History: Dr. Martin A. Reuss, who was instrumental in procuring the Arthur Maass Papers, and Dr. Martin K. Gordon, who provided technical expertise and counsel during the processing effort. Thanks also go to Lisa K. Wagner, who verified and updated register entries; Christine O. Hardyman, Kristin A. Peterson, and Beryl J. Johnson, who established the format for the register; and Mary F. Loughlin and Kathleen Richardson, who edited and proofed it.

K. ALAN SNYDER

Contents

	<u>Page</u>
INTRODUCTION	3
<u>Section</u>	
I. RESOURCES--GENERAL	7
II. WATER RESOURCES	13
General	13
National Water Policy	13
Economic and Hydrologic Data and Research	18
Technology	29
Specific Purposes	32
Legislation	39
Organization for Water Resources Development, 1916-1983	40
Water Rights and Water Law	46
III. LAND AND AGRICULTURAL RESOURCES	49
Basic Data	49
Farm Conservation--Programs and Policies	50
General Agricultural Policy	55
Forestry	56
Public Lands and Grazing	59
IV. MINERAL RESOURCES	61
General	61
Energy Minerals	62
V. SOLAR, WIND, AIR, AND OCEAN RESOURCES	67
VI. RECREATION	69
VII. PUBLIC WORKS POLICIES	71
VIII. PRESSURE GROUPS	73
General	73
Water Interests	75
IX. ECONOMIC POLITICS	77

<u>Section</u>	<u>Page</u>
X. CONSERVATION COURSES	79
Government and the Conservation of Natural Resources	79
Conservation Planning	84
XI. PUBLICATIONS AND RESEARCH	87
XII. AREA FILES	91
New England	91
Middle Atlantic	95
Southeast	97
Great Lakes-St. Lawrence	98
Mississippi-Missouri-Ohio Basins	99
Ohio River	99
Tennessee	100
Upper Mississippi-Red River of the North	101
Missouri River Basin	102
Arkansas-White and Red River Basins	104
Lower Mississippi	104
Rio Grande and the Gulf	105
Colorado Basin	106
Great Basin	107
Central and Southern Pacific	108
Central Valley	108
Pacific Northwest	109
Alaska--Hawaii--Puerto Rico	112
Foreign Countries	113
CHRONOLOGY	115
WORKS BY DR. ARTHUR MAASS	119
GLOSSARY	123

REGISTER OF THE ARTHUR MAASS PAPERS

INTRODUCTION

The Arthur Maass Papers focus on evolving government policies dealing with water resources and land conservation at the federal, state, and local levels. The collection reflects Dr. Maass' experiences as student, government official, and Harvard professor, with the majority of the materials covering the 1950s and 1960s.

The collection includes both public and private papers: government publications and reports, departmental memos and news releases, policy studies, scholarly essays, conservation newsletters, newspaper clippings, copies of Dr. Maass' published works, and his personal correspondence. The personal correspondence is so closely tied to the various studies, reports, and publications that the letters are incorporated into each folder's subject rather than gathered into a separate section.

Section I, Resources--General, contains material on the environment and conservation; each subsequent section is specific in its focus. The first subject area is Water Resources, Dr. Maass' primary concern. Subsections within Water Resources are national water policy, economic and hydrologic data and research, technology, specific purposes, legislation,

organization for water resources development, and water rights and water law.

The third section, Land and Agricultural Resources, includes the subsections of basic data, farm conservation programs and policies, general agricultural policy, forestry, and public lands and grazing. This is followed by shorter sections on Mineral Resources; Solar, Wind, Air, and Ocean Resources; Recreation; Public Works Policies; Pressure Groups and Organizations; and Economic Politics.

The next portion of the papers consists of two courses taught by Dr. Maass: one on government and conservation and the other on planning. Both include his handwritten lecture notes.

The courses are followed by documents relating to a number of Dr. Maass' published works, as well as copies of most of those works. Articles not in this section can be found with the appropriate topics in earlier sections. A copy of Dr. Maass' doctoral dissertation also is included.

The Area Files form the final section of the Maass Papers. They cover the same natural resources topics as were found in the earlier sections but are divided into geographical units, such as New England, Middle Atlantic, and Lower Mississippi.

The descriptive inventory is organized by folder according to topics within each of the main sections mentioned above. If certain documents are either too large or too important to be included with the rest of the papers on a certain topic, they are to be found in separate folders immediately following the folder (or folders) for the main topic. Within the folders, documents are organized chronologically with undated material at the back of each folder.



The 1958-1959 Harvard Water Program participants, from left to right: (standing at the back) Robert Wilson, Howard Mullaney, Ralph Peterson, Otto Eckstein, Alan Payne, Robert Dorfman, Myron Fiering, Harold Thomas, Howard Bare, Gail Sullivan, Stephen Marglin, Robert Gemmell, Allyn Richardson, David Bernstein; (kneeling) Louis Falkson; (front row) William Shaw, Maynard Hufschmidt, Arthur Maass, Sheldon Boone. Missing from the picture: Gordon Fair.

SECTION I
RESOURCES – GENERAL

The material in this section pertains to the environmental movement as a whole and cannot be classified under one particular branch of environmental concerns. These papers range from the philosophy of conservation to the court cases that have determined the practical limits of conservation legislation.

Folder 1. Conservation Philosophy and Human Ecology, 1937-1980.

Correspondence, newsletters, popular publications, and scholarly research papers relating to the philosophy behind the drive for conservation. These include "Are We Heading Toward Starvation?"; Newsweek's Platform publication of November 1948; Crisis Spots in Conservation, a 1949 production of the Izaak Walton League of America; Robert Kates, "Comprehensive Environmental Planning," paper presented to the Symposium on Regional and Environmental Planning, University of North Carolina, 5 Mar 1966.

Folder 2. Conservation Education, 1949-1970.

Correspondence and newspaper clippings regarding the introduction of conservation courses in colleges and universities. Also in the folder are two proposals: one by the Boy Scouts regarding integration of conservation education into the Scouting program, 1953; the other by the National Council of the Churches of Christ promoting the study of "Problems of Basic Resource Development and Use in an Economy of Rapid Change," Dec 1963.

Folders 3-4. Conservation Article--International Encyclopedia of the Social Sciences, 1968.

Dr. Maass' article, "Conservation of Natural Resources: Social and Political Aspects."

Folder 5. Conservation History.

First draft of Hiller Zobel's "Steward of Conservation," n.d.; Highlights in the History of Forest and Related Natural Resource Conservation, Dept. of Interior, n.d.

Folder 6. Frederick Merk, "History of Westward Movement," lecture notes, n.d.

Folders 7-8. Regional Factors in Planning, 1953-1968.

Harvey S. Perloff, "Education for Careers in Regional Planning and Development," first draft, 1957; Maynard M. Hufschmidt, "A New Look at Regional Planning," University of North Carolina, 11 Dec 1965; Frank A. Hanna, "Study of Differences in State Per Capita Incomes: A Research Program," Duke University, 7 Mar 1951; Morris E. Garnsey, "The Dimensions of Regional Science," paper presented before the Regional Science Association, 27 Dec 1955; John E. Elliott, "Economic Planning Reconsidered," Quarterly Journal of Economics, n.d. Numerous handwritten notes on the subject by Dr. Maass also are included.

Folder 9. Conservation Economics: Technology and Research, 1949-1974.

Joseph L. Fisher, "Natural Resources and Technological Change," Paper #12, Conference on Quantitative Description of Technological Change, 6-8 Apr 1951; Earl O. Heady and O. J. Scoville, Principles of Conservation Economics and Policy, Bureau of Agricultural Economics, USDA, Jul 1951; Anne Grosse and James S. Duesenberry, "Technological Change and Dynamic Models," paper prepared for Conference on Research in Income and Wealth, Harvard University, Oct 1952.

Folder 10. President's Materials Policy Commission (PMPC), General Reviews and Related Resources Projections, 1952-1976.

Robert W. Hartley, Land and Water Conservation and Development, Brookings Institution, Aug 1955; includes a nine-page critique of the PMPC by Dr. Maass.

Folder 11. Report on National Commission on Materials Policy, 1973.

Folder 12. Social Science Research Council Study, "Gaps in Our Knowledge of Resources Development and Conservation," 1952.

Study conducted and written by Dr. Maass.

Folders 13-15. Ford Foundation--Resources for the Future--Conservation Foundation, 1953-1981.

Charles W. Eliot, Director, Resources Program, "A Program for Resources Conservation and Development to Strengthen the Economy," report to the officers of the Ford Foundation, Aug 1953; summaries of presentations given at the Mid-Century Conference on Resources for the Future, 2-4 Dec 1953; correspondence concerning Dr. Maass' views of the activities of Resources for the Future (RFF), and his comments on a 1954 RFF background paper, "Resource-Connected Distressed Areas"; Annual Reports of the Conservation Foundation, 1970-1971.

Folder 16. Harvard Proposals to the Ford Foundation for Natural Resources Research Programs, 1952.

Folders 17-22. Environmental Policies, 1968-1983.

This series of folders is mainly a collection of conservation newsletters, newspaper clippings, and weekly abstracts of government publications dealing with the environment. The effect is a 15-year running commentary on the federal government's environmental policies. Also included are three 1969 speeches by Sen. Henry M. Jackson: "Toward a Quality Environment," to the National Wildlife Federation, 28 Feb; "The Challenge of the Land and the Environment," to a Joint Session of the Washington State Legislature, 7 Mar; and "A National Policy for the Environment," to The National Audubon Society Annual Convention, 26 Apr.

Other papers of note include the Harvard University Program on Technology and Society, Sixth Annual Report 1969-1970; Margaret and Harold Sprout, Ecology and Politics in America: Some Issues and Alternatives, 1971; President Richard M. Nixon's 1972 "Message on the Environment"; "Political Scientists and Environmental Studies: A Preliminary Directory," Feb 1973; More Effective Programs for a Cleaner Environment, A Statement on National Policy by the Research and Policy Committee of the Committee for Economic

Development, Apr 1974; "The Economic Impact of Environmental Programs," The Council on Environmental Quality, Executive Office of the President, Nov 1974; "Report on the Implementation of the U.S.-U.S.S.R. Agreement on Cooperation in the Field of Environmental Protection During the Period November 1975 to November 1976," Fifth Annual Meeting of the U.S.-U.S.S.R. Joint Committee on Cooperation in the Field of Environmental Protection, 15-19 Nov 1976.

Folders 23-25. Environment and the Courts, 1969-1980.

These three folders contain copies of court decisions and newspaper clippings related to them. They provide a chronology of events related to environmental litigation. The court decisions and newspaper stories are complemented by accounts of the same cases in environmental newsletters and a few scholarly works. Some of the decisions contained herein are the following: Ohio v. Wyandotte Chemicals Corp., U.S. Supreme Court, 23 Mar 1971; D.C. Federation of Civic Associations v. Volpe, U.S. Court of Appeals, District of Columbia, 12 Oct 1971; Calvert Cliffs v. Atomic Energy Commission, U.S. Court of Appeals, District of Columbia, 1971; Natural Resources Defense Council, Inc. v. Morton, U.S. Court of Appeals, District of Columbia, 1972; Greene County Planning Board v. Federal Power Commission, U.S. Court of Appeals, Second Circuit, 1972; Citizens to Preserve Overton Park, Inc. v. Volpe, Western District, Tennessee, 1972.

Scholarly works related to law and the environment include the following: Milton Katz, "The Function of Tort Liability in Technology Assessment," University of Cincinnati Law Review, Vol. 38, No. 4 (1969); Louis L. Jaffe and Laurence H. Tribe, Environmental Protection, The Bracton Press: Chicago, IL, 1971; James E. Krier, "Environmental Watchdogs: Some Lessons from a 'Study' Council," 1972; Walter A. Rosenbaum and Paul E. Roberts, "The Year of Spoiled Pork: Comments on the Court's Emergence as an Environmental Defender," Law and Society Review, Vol. 7, No. 1 (Fall 1972).

Folder 26. Environment and the Courts--Personal Notes.

Folder 27. Environment and the Courts--Student Papers, 1973.

Folder 28. Environmental Economics, 1975-1980.

Daniel W. Bromley, "Property Rules, Liability Rules, and Environmental Economics," Journal of Economic Issues, Vol. 12, No. 1 (Mar 1978); Eric L. Hyman, "Net Energy Analysis and the Theory of Value: Is It a New Paradigm for a Planned Economic System?," Journal of Environmental Systems, Vol. 9, No. 4 (1979-1980).

Folder 29. Environmental Politics, 1975-1981.

Riley E. Dunlap, "The Impact of Political Orientation on Environmental Attitudes and Actions," Environment and Behavior, Vol. 7, No. 4 (Dec 1975); Dunlap and Don A. Dillman, "Decline in Public Support for Environmental Protection: Evidence from a 1970-1974 Panel Study," Rural Sociology, Vol. 41, No. 3 (Fall 1976); Dunlap and Michael Patrick Allen, "Partisan Differences on Environmental Issues: A Congressional Roll-Call Analysis," The Western Political Quarterly, Vol. 29, No. 3 (Sep 1976).

Folder 30. International Conferences and Organizations on Environment, 1968-1973.

Report of the United Nations Economic and Social Council, "Problems of the Human Environment," 26 May 1969; "Principles of the United Nations Conference on the Human Environment," 5-16 Jun 1972; information on the Ninth World Congress of the International Political Science Association, 19-25 Aug 1973.

SECTION II

WATER RESOURCES

Water Resources is a unit concerned with the development of public policy and the use or misuse of the national water supply. Subsection topics in this unit are general; national water policy; economic and hydrologic data and research; technology; specific purposes; legislation; organization for water resources development; and water rights and water law. Folders consist primarily of government news releases, newspaper clippings, conservation newsletters, and book notices. Documents of exceptional interest or length are mentioned separately. All correspondence is filed with related documents.

General

Folder 31. International Conference on Water for Peace, 1967.

"A Summary of the Current Activities of the Food and Agriculture Organization of the United Nations as Regards the Legal and Institutional Aspects of Water Resources Management," 1975 background paper produced by the Food and Agriculture Organization of the United Nations.

National Water Policy

These papers deal primarily with the records of government commissions and committees and the actions of presidential

administrations from Harry S. Truman to Ronald Reagan. The net effect is a history of national water policy from immediately after World War II through President Reagan's first term.

Folder 32. Water Development--General, 1945-1981.

State Government, Vol. 18, No. 2 (Feb 1945) and Vol. 19, No. 9 (Sep 1946); "Public Power and Flood Control in the Southeast," Dept. of Interior, 1952; Mason Gaffney, "The Federal Role in Water Development," 1960; Irving K. Fox, "Trends in River Basin Development," paper presented to the Ninth National Watershed Congress, 7 May 1962; "Why You Should Be Interested in the Most Effective Use of Water," Water Conservation Conference Continuing Committee, n.d.

Folder 33. Supporting Material for Thesis, n.d.

Handwritten notes by Dr. Maass concerning the development of a national water program.

Folder 34. Recommendations of the Mississippi Valley and Water Planning Committees, 1935.

Folder 35. National Resources Planning Board Subcommittee on National Water Policy, 1940-1941.

Background notes and minutes from the meetings, and correspondence discussing the findings of the subcommittee.

Folder 36. Proposed Legislation, 1944.

Draft of a confidential message from President Franklin D. Roosevelt to Congress urging the passage of bills that would provide for the development and protection of America's water and land resources. There are also two papers by C.D. Curran of the Bureau of the Budget: the first, a presentation before a Budget Bureau Field Service Conference, 18 Sep 1944, "Notes on Federal Functions, Policy, and Problems in Water Resource Utilization and Control"; the second, a compilation of statements made during 1944 by both the President and the Bureau of the

Budget regarding the development of a federal water resources policy.

Folder 37. President's Water Resources Policy Commission (PWRPC), 1950-1953.

Maass, "An Evaluation of the Commission's Recommendations for Administering Water Development," paper presented to the American Political Science Association, 28-30 Aug 1951; Leland Olds, "Who Should Develop Our Water Resources? Federal Responsibility for Water Resources Development," paper presented to the Chamber of Commerce, 29 Apr 1952.

Folder 38. Report of PWRPC Planning and Project Selection Committee, Jul 1950.

Folder 39. Minutes, Interior Department Task Force to Consider PWRPC Report, 29 Dec 1950-1 Mar 1951.

Folder 40. Interior Task Force Review of PWRPC Report, 1950-1951.

Folder 41. PWRPC Recommendations for Legislation, 11 Feb 1952.

Folder 42. Draft, Water Resources Policy Act, 1952.

Folder 43. Budget Circular, Report and Estimates on Federal Water Projects, 1952.

Folder 44. Interior Dept. Comparison of Recommendations, Oct 1954.

A report intended to be an index of the principal recommendations made by various groups, public and private, that have studied water resources problems. Uses the PWRPC report as the basis for comparison.

Folder 45. Eisenhower Administration.

David G. Temple, "Our Evolving National Water Policy," n.d.; David C. Major, "On a Proposal by the Eisenhower Adminis-

tration to Decentralize Control Over Certain Water Resource Investments," n.d.

Folder 46. Senate Select Committee on National Water Resources, 1959-1960.

Indexes to the hearings of the committee and to committee prints. Addresses: Theodore M. Schad, "A Report on the Senate Select Committee on National Water Resources," to the Sanitary Engineering Division Conference of the American Society of Civil Engineers, 6 Jan 1960; Sen. Robert S. Kerr, 19 Feb 1960, before the New York State Waterways Association.

Folder 47. Kennedy and Johnson Administrations.

The final report of the Kennedy-Johnson Natural Resources Advisory Committee, 17 Jan 1961; The White House Special Message on Natural Resources, 23 Feb 1961; drafts of a 1961 executive order on water resources planning and development; The White House Message on Conservation, 1 Mar 1962; remarks of Kermit Gordon, Director of the Bureau of the Budget, before the Committee for Economic Development, 19 Nov 1964; three 1966 addresses by President Lyndon B. Johnson.

Folders 48-49. National Water Commission, 1967-1973.

National Water Commission Hearings before the Interior and Insular Affairs Committee of the Senate, 16-17 May 1966; "Compendium of Recommendations from the Proposed Report of the National Water Commission," Water Resources Council, 20 Nov 1972; the same council's review draft of 18 Jan 1973.

Folder 50. Nixon and Ford Administrations.

Folder 51. National Commission on Water Quality, 1974-1976.

Folder 52. National Conference on Water, 1975.

Folder 53. Water Resources Council Study, 1974-1976.

Presidential study of major water resources policies prepared in response to the Water Resources Development Act

of 1974. The study manager, Steve Dola, was a student of Dr. Maass and correspondence between the two provides a behind-the-scenes look at the inner workings of the study. A summary report to the President is included, as well as instructions for data compilation and a memo, "Planning Objectives: An Integrated Objective Approach."

Folder 54. Carter Administration.

"Water Resource Policy Study," Water Resources Council, 1977; David C. Major, statement at the National Water Policy Study Hearings, 28 Jul 1977.

Folder 55. Moynihan-Domenici Bill, 1979-1980.

National Water Resources Policy and Development Act of 1979.

Folder 56. Water Implementation Policy, General, 1978-1979.

Guidelines and progress reports on President James E. Carter's Water Implementation Policy Task Force.

Folder 57. Report by the Comptroller General: Review of President's Water Policy Message, 6 Nov 1978.

Folder 58. Report of Water Conservation Task Force, 9 Nov 1978.

Folder 59. Draft, Water Policy Implementation Work Plans, 12 Dec 1978.

Folders 60-61. Water Policy Implementation, Draft Reports, 1978.

Folders 62-63. Water Policy Implementation, Final Draft Reports, 1979.

Folder 64. Water Policy Implementation, Final Reports, 1979-1980.

Folder 65. Reagan Administration.

Economic and Hydrologic Data and Research

This subsection examines the proper foundation on which to base policy decisions. Projections of water demand and investment potential, cost-benefit analyses, planning for multiple objectives, and ongoing research form the core of the material. Of paramount interest are two articles published by Dr. Maass, one in 1966 and the other in 1969, which focus on both the costs and the benefits behind policy decisions.

Folder 66. Water Demand and Capital Investment Projections, 1959-1977.

"Water Resources Developments Capital Investment Values 1900-1975," Commerce Dept., Jun 1959; "Water Use in the U.S. 1900-1980," Commerce Dept., 1960; Water Resources and Regional Economic Growth in the United States, 1950-1960, Resources for the Future, Jun 1968; a proposal to the Dept. of Interior by the Smithsonian Institution, "Survey of Public Attitudes Toward Alternative Future Patterns of Water Resource Use," 15 Nov 1968; Future Water Demands--The Impacts of Technological Change, Public Policies, and Changing Market Conditions on the Water Use Patterns of Selected Sectors of the United States Economy: 1970-1990, Resources for the Future, Mar 1971.

Folders 67-93. Cost-Benefit Evaluations, 1945-1982.

The bulk of this material, approximately five archival boxes, consists of studies and reports on the cost and benefit factors that must be weighed before formulating a national water policy. Although correspondence will be found in most of the folders, the majority of such correspondence relates to the studies and reports filed therein. Folders 78 and 82 are exceptions as they contain Dr. Maass' handwritten notes on the subject. Some of the folders contain issues of the National Waterways Conference newsletter, Criteria News, which provide contemporary information on the government's role in formulating water policy. Folder numbers and significant papers are listed below.

67. Benefits and Costs, Dept. of Interior Reclamation Manual, 7 Feb 1950; "Value of Water for Irrigation in the Roaring Fork Basin of Colorado," USDA Bureau of Agricultural Economics and Colorado Agricultural Experiment Station, May 1950; M.M. Regan and E.L. Greenshields, "Benefit-Cost Analysis of Resource Development Programs," Journal of Farm Economics, Vol. 33, No. 4 (Nov 1951); "The Reclamation Program: A Survey of the Application of the Interest Component," n.d.

68. James C. Battie, Mark J. Rogers, and Ellis T. Williams, "A Critique of Procedure for Calculation of Benefit-Cost Ratios and of Benefit Claims in Certain Department of Agriculture Reports Recommending Programs for Waterflow Retardation and Soil Erosion Prevention," 5 May 1952; Report of Panel of Consultants on Secondary or Indirect Benefits of Water-Use Projects to Michael W. Straus, Commissioner, Bureau of Reclamation, 26 Jun 1952; Robert B. River, "Benefit-Cost Evaluation as a Criterion for Federal Resource Development," M.A. thesis, University of California, Jul 1952; Report of the House Subcommittee to Study Civil Works, "The Allocation of Costs of Federal Water Resource Development Projects," 5 Dec 1952.

69. Charles D. Curran, "The Reclamation Program and the Interest Component," The Library of Congress, Legislative Reference Service, 4 May 1953; Mark M. Regan and John F. Timmons, "Current Concepts and Practices in Benefit-Cost Analysis of Natural Resource Developments," address to the American Association for the Advancement of Science, 27 Dec 1954; Julius Margolis, "Secondary Benefits, External Economies, and the Justification of Public Investment," The Review of Economics and Statistics, ca. 1957-1958; "Arkansas-White-Red Survey Policy Problems," n.d.

70. Robert W. Harrison, Evaluation and Cost-Sharing in National Resource Development Programs, International Land Surveys and the Farm Economics Research Division, USDA, 1962; Stephen A. Marglin, "The Social Rate of Discount and the Optimal Rate of Investment," Society of Fellows, Harvard University, May 1962 [also Quarterly Journal of Economics, Vol. 77 (Feb 1963)]; memo to the White House from the Secretaries of the Army; Interior; Agriculture; and Health, Education, and Welfare, "Policies, Standards, and Procedures in the Formulation, Evaluation, and Review of Plans for Use and Development of Water and Related Land Resources," 15 May 1962; Kenneth J. Arrow, "Criteria for Social Investment,"

submission by U.S. delegation, Economic Commission for Europe, meeting of Senior Economic Advisers, 5-9 Nov 1962; Marglin, "The Opportunity Costs of Public Investment," Quarterly Journal of Economics, Vol. 77 (May 1963); Peter O. Steiner, "The Role of Alternative Cost in Project Design and Selection," Quarterly Journal of Economics, ca. 1964; Determination of Area Redevelopment Benefits from Water Resource Projects, Dept. of Commerce, Mar 1964; Irving K. Fox and Orris C. Herfindahl, "Attainment of Efficiency in Satisfying Demands for Water Resources," Resources for the Future, May 1964.

71. David C. Major, "Decision-Making for Public Investment in Water Resource Development in the United States," Harvard Water Program, Jan 1965; Stanley Milgram, "Liberating Effects of Group Pressure," Journal of Personality and Social Psychology, Vol. 1, No. 2 (Feb 1965); David Braybrooke, "The Contribution of Management to Public Decision-Making: A Twenty-Year Prospect of Personal Reassignment and Institutional Transformation," Jul 1965.

72. David C. Major, "Decision-Making for Public Investment in Water Resource Development in the United States," Jan 1965.

73. Timothy King, "Development Strategy and Investment Criteria: Complementary or Competitive?" Quarterly Journal of Economics, Vol. 80 (Feb 1966); remarks by Dr. Maass at the Second Conference on Government Expenditures, Brookings Institution, 15 Sep 1966; J. Hirshleifer and J.W. Milliman, "Urban Water Supply--A Second Look," 30 Nov 1966; Aaron Wildavsky, "The Political Economy of Efficiency: Cost-Benefit Analysis, Systems Analysis, and Program Budgeting," Public Administration Review, Vol. 26, No. 4 (Dec 1966); S.V. Ciriacy-Wantrup, "Water Policy and Economic Optimizing: Some Conceptual Problems in Water Research," presented to Annual Meeting, American Economic Association, 27 Dec 1966; Maass discussion of Ciriacy-Wantrup paper, same meeting, same date; A. Allan Schmid, "Nonmarket Values and Efficiency of Public Investments in Water Resources," same meeting, same date; A. Myrick Freeman III, "Income Distribution and Planning for Public Investment," American Economic Review, ca. 1967.

74. "Task Statement for the Design of an Information System for the Bureau of the Budget," 26 Jan 1968; "Dossier on Cost

Benefit Analysis in the Public Sector," Treasury Management Accounting Unit, May 1968; Hearings before the Subcommittee on Economy in Government, "Economic Analysis of Public Investment Decisions: Interest Rate Policy and Discounting Analysis," 30-31 Jul and 1 Aug 1968; Report of House Subcommittee on Economy in Government, "Economic Analysis of Public Investment Decisions: Interest Rate Policy and Discounting Analysis," 23 Sep 1968.

75. Goran Wideback, "A Model of Budgeting," Center for Research in Management Science, University of California, Berkeley, Aug 1966; Martin C. McGuire and Harvey A. Garn, "An Experiment in the Integration of Equity and Efficiency Criteria in Public Project Selection," 1968; Emery N. Castle and Russell C. Youmans, "Economics in Regional Water Research and Policy," Journal of Agricultural Economics, Vol. 50, No. 5 (Dec 1968).

76. Burl F. Long, "Concepts and Theoretical Basis for Evaluation of Secondary Impacts"; Walter G. Miller and James E. Osborn, "Secondary Effects of Land and Water Depletion"; Clyde E. Stewart, "Secondary Benefit Evaluations in Federal Reclamation Programs"; William H. Heneberry, "Evaluation of Secondary Benefits from the Accelerated Watershed Program in Appalachia"; Neil R. Cook, "Review of Regional Studies of Income Distribution"; Robert Harrison, "The Role of Secondary Effects in Project Formulation Justification and Evaluation for the Appalachian Water Resources Survey"; Dwight M. Gadsby, "Current Procedures Used in Evaluating Resource Conservation and Development Projects"; W.B. Back, "Appraisal of Regional, Interregional, and National Effects of Resource Development by Interindustry Analysis"; Melvin D. Skold and Arthur J. Greer, Jr., "Estimating the Impact of Individual Resource Development Projects in Local Areas by Interindustry Analysis"; Jay C. Anderson and Lynn W. Wilkes, "The Consideration of Secondary Impacts in Comprehensive Studies of the Pacific Southwest Water Resource Regions"; P. Thomas Cox, "Statistical Analyses of Growth and Development in Project Areas or Potential Project Areas"; Roger W. Strohbehn, "Computer Simulation of a Socio-Physical System"; Gary C. Taylor, "Relating Economic Evaluation of Federal Resources Programs to Political Objectives and Social Values"; M.L. Weinberger, "Concepts and Objectives Underlying the Evaluation of Secondary Effects of Natural Resource Development." All of these studies are dated 1968.

77. Report to the Water Resources Council by the Special

Task Force, "Procedures for Evaluation of Water and Related Land Resource Projects," Apr 1969; Martin C. McGuire and Henry Aaron, "Efficiency and Equity in the Optimal Supply of a Public Good," Brookings Institution, Apr 1969, reprinted from Review of Economics and Statistics, Vol. 51, No. 1 (Feb 1969); Sen. Henry M. Jackson, "Resources Management: Choices and Consequences," address before the Western Water Congress, 8 Apr 1969.

78. Jack L. Knetsch, Robert H. Haveman, Charles W. Howe, John V. Krutilla, and Michael F. Brewer, Federal Natural Resources Development: Basic Issues in Benefit and Cost Measurement, Natural Resources Policy Center, George Washington University, May 1969; Jim J. Tozzi, "Establishing Priorities for Public Investments," Systems Analysis Group, Office of the Secretary of the Army, Jun 1969; David C. Major, "Benefit Cost Ratios for Projects in Multiple Objective Investment Programs," 1969; A. Allan Schmid, "Effective Public Policy and the Government Budget: A Uniform Treatment of Public Expenditures and Public Rules," n.d.

79. Jack W. Carlson, "Water Resource Investments and National Goals," address before the Third Western Interstate Conference, 26 Aug 1969; Criteria for Federal Evaluation of Resource Investments, Water Resources and Marine Sciences Center, Cornell University, Aug 1969.

80. House and Senate reports on water resources planning and public works for water and power resources development, Jun-Jul 1968.

81. "Principles for Planning Water and Related Land Resource Development," Water Resources Council Task Force on Evaluation Procedures, revised draft, 16 Jan 1970; Maass and David C. Major, "The Objectives of Water Policy and Related Institutional Problems," 13 Apr 1970, prepared for the United Nations Panel of Experts on Water Resources Development Policies, 8-13 Jun 1970.

82. A. Myrick Freeman III and Robert H. Haveman, "Benefit-Cost Ratios for Projects in Multiple Objective Investment Programs: A Comment," 1970.

83. "Proposed New Procedures for Evaluating Water and Land Resources: Some Comments from an Academic Viewpoint," University Council on Water Resources; "Principles for Planning Water and Land Resources," Water Resources Council, Apr 1971; Peter Rogers, "Indices for Environmental Quality," Environmental Systems Program, Harvard University, 20 Jun 1971.

84. Senate Report on Public Works for Water and Power Development, 30 Jul 1971; Morris L. Weinberger and Howard L. Hill, "Benefit-Cost Relationships in Sediment Control," Economic Research Service, USDA, Aug 1971; Water Resources Council, "Proposed Principles and Standards for Planning Water and Related Land Resources," Federal Register, Vol. 36, No. 245 (21 Dec 1971).

85. Benefit-Cost Ratio report from the Chief of Engineers, Dept. of the Army, to Senate Committee on Public Works, 4 Feb 1972.

86. Statement by Col. John C.H. Lee, Jr., to the Water Resources Council on an optimum method of cost allocation and cost sharing applicable to multiobjective water resources planning, 20-21 Mar 1972; statement by Harry N. Cook, Executive Vice President, National Waterways Conference, at public hearing on proposed water resources evaluation standards, 21 Mar 1972.

87. Statement by Dr. Maass at public hearing on proposed water resources evaluation standards, 21 Mar 1972; David Simpson and Susan Scott, "Efficiency in Public Spending: A New Approach," Feb 1972; Appendix A to "Preliminary Instructions for Following Proposed Guidelines," 10 Aug 1972.

88. "Harvard University Program on Technology and Society: A Final Review," 1972; Steven Dola, "The Evolution of a Funding Policy," ca. 1972; Arnold C. Harberger, "Three Basic Postulates for Applied Welfare Economics: An Interpretive Essay," Journal of Economic Literature (ca. 1972); Maass and David C. Major, "Budget Constraints and Multiobjective Planning," Engineering Issues--Journal of Professional Activities, Proceedings of the American Society of Civil Engineers, Vol. 98, No. PP3 (Jul 1972).

89. Personal notes.

90. Charles J. Cicchetti, Robert K. Davis, Steve H. Hanke, and Robert H. Haveman, "Evaluating Federal Water Projects: A Critique of Proposed Standards," Science, Vol. 181 (24 Aug 1973); Water Resources Council, "Water and Related Land Resources: Establishment of Principles and Standards for Planning," Federal Register, Vol. 38, No. 174 (10 Sep 1973); David C. Major, "Evaluating Federal Water Projects: Comment," n.d., ca. 1973.

91. Testimony of Dr. David C. Major, Associate Professor of Civil Engineering, Massachusetts Institute of Technology, before the Subcommittee on Water Resources of the Senate Committee on Public Works, 27 Jun 1974.

92. John V. Krutilla, "The Use of Economics in Project Evaluation," Resources for the Future, reprinted from Transactions of the 40th North American Wildlife and Natural Resources Conference, 1975; Robert Dorfman, "Forty Years of Cost-Benefit Analysis," Aug 1976; Gautam Pingle, "The Early Development of Cost-Benefit Analysis," Journal of Agricultural Economics (Jan 1978); Water Resources Council, "Procedures for Evaluation of National Economic Development Benefits and Costs in Water Resources Planning and Proposed Revisions to the Standards for Planning Water and Related Land Resources," Federal Register (24 May 1979); Water Resources Council, "Procedures for Evaluation of National Economic Development Benefits and Costs in Water Resources Planning; Final Rule," Federal Register, Vol. 44, No. 242 (14 Dec 1979).

93. Personal notes.

Folder 94. Drafts of Maass Article, "Benefit-Cost Analysis: Its Relevance to Public Investment Decisions," Aug-Sep 1965.

Folder 95. Maass Article, "Benefit-Cost Analysis: Its Relevance to Public Investment Decisions," Quarterly Journal of Economics (May 1966).

Folders 96-97. Correspondence regarding QJE Article, 1964-1968.

Folder 98. Reprints of QJE Article, 1969.

Folder 99. Drafts of Maass Article, "Public Investment Planning in the United States: Analysis and Critique," Jan-Apr 1969.

Folder 100. Final Draft of Maass Article, "Public Investment Planning in the United States: Analysis and Critique," Public Policy (Winter 1969).

Folders 101-102. Correspondence Regarding Public Policy Article, 1969-1973.

Folders 103-108. Multiple Objective Planning, 1961-1982.

These papers deal with the many facets of planning that must be considered before formulating public policy. As was the case with the Cost-Benefit Evaluations folders, reports and study papers predominate. Below is a list of the folders and their significant papers.

103. Otto Eckstein, "A Survey of the Theory of Public Expenditure Criteria," National Bureau of Economic Research, Princeton University, 1961; James Q. Wilson, "Planning and Politics: Citizen Participation in Urban Renewal," Journal of the American Institute of Planners, Vol. 29, No. 4 (Nov 1963); Bertram M. Gross, "What Are Your Organization's Objectives?," Human Relations, Vol. 18, No. 3 (1965); The Administration of Economic Development Planning: Principles and Fallacies, United Nations Dept. of Economic and Social Affairs, 1966; Budgeting for National Objectives, Committee for Economic Development, Jan 1966.

104. William C. Mitchell, "The Shape of Political Theory to Come: From Political Sociology to Political Economy," address to the American Political Science Association, 5-9 Sep 1967; "Summarization of Planning Policy Conferences, 2-9 Nov 1967," Army Corps of Engineers; William C. Mitchell, "The New Political Economy," Social Research, Vol. 35, No. 1 (Spring 1968); E.B. Nash and L.M. Hartman, "The Social Basis of Water Resource Institutions: A Game Theory Analysis," Jun 1969; draft statement, "Water Resources Planning and 'The People'--A Preliminary Exploration of the Problems and Procedures Relevant to Public Involvement

in Water Resources Planning," Army Corps of Engineers, Dec 1969.

105. David J. Allee, "Efficient Management Policies for Urban Water Supply," remarks at American Society of Civil Engineers Conference, Spring 1970; papers by Norman Wengert while working in the Corps' Institute for Water Research (1970) dealing with public participation in water project planning.

106. Henry C. Hart, "The Role of Social Science in Water Resources Management," 1971; David C. Major, "The Impact of the Systems Approach on the NAR Study," remarks at 52d Annual Meeting, American Geophysical Union, 12 Apr 1971; Norman Wengert, "Where Can We Go with Public Participation in the Planning Process?," paper delivered at National Symposium on Social and Economic Aspects of Water Resources Development, 21 Jun 1971; David C. Major, "Multiobjective Redesign of the Big Walnut Project," adapted from the author's paper to the Fourth Australasian Conference on Hydraulics and Fluid Mechanics, Nov-Dec 1971.

107. Forming Consumer Organizations, Office of Consumer Affairs, Executive Office of the President, 1972; David C. Major, "Impact of Systems Techniques on the Planning Process," Water Resources Research, Vol. 8, No. 3 (Jun 1972); Don't Leave It All to the Experts: The Citizen's Role in Environmental Decision Making, U.S. Environmental Protection Agency, Nov 1972; Peter Richerson and Robert Johnston, "Environmental Values and Water Quality Planning," Journal of the Hydraulics Division (Feb 1975); Ralph L. Keeney and Eric F. Wood, "An Illustrative Example of the Use of Multiattribute Utility Theory for Water Resource Planning," Water Resources Research, Vol. 13, No. 4 (Aug 1977); William E. Martin, Helen Ingram, and Nancy K. Laney, "A Willingness to Play: Analysis of Water Resources Development," Western Journal of Agricultural Economics (Jul 1982).

108. Donald N. Rothblatt, "A Multiple Advocacy Approach to Resolving Metropolitan-Wide Planning Problems: The Case of Expanding Air Transport Facilities for San Jose," presented at the 57th Annual Conference, American Institute of Planners, n.d.; David C. Major, "The Impact of Systems Techniques on the Planning Process," n.d.

Folder 109. Maass Speech at 14th Annual Watershed Congress, 19 Jun 1967.

Folder 110. Maass Speech at National Waterways Conference, 18 Oct 1968.

Folder 111. Maass and David C. Major, "The Objectives of Water Policy and Related Institutional Problems," 15 Dec 1969.

Folder 112. National Water Commission Analysis of the Role of Congress in the Authorization Process, 1970.

Folder 113. Army Corps of Engineers Public Brochures for the Flathead River Flood Control Study, 1971.

Folder 114. Army Corps of Engineers--Water Resources Planning, 1971.

Folder 115. Water Resources Research Institute Papers, Jan 1975.

Henry P. Caulfield, Jr., "The Politics of Multiple Objective Planning"; David C. Major, "An Overview of Multiple Objective Planning."

Folder 116. Water Resource Systems: Design Methods, 1966-1978.

Thomas L. Morin, "Solution of Some Sequencing Problems Encountered in Water Resources Development," Nov 1972; Fumiko Seo, "Waste Disposal and Regional Planning," Kyoto Institute of Economic Research, May 1973; H. Stuart Burness and James P. Quirk, "The Theory of the Dam: An Application to the Colorado River," California Institute of Technology, Aug 1978.

Folder 117. Steven Dola, "Passaic Valley Flood Control," Jun 1965.

Folders 118-119. Basic Hydrological Data, 1949-1981.

"Public Water-Supply Shortages, 1953," Dept. of Interior;

W.B. Langbein, Hydraulic Engineer, U.S. Geological Survey, "Stream Gaging Networks," paper prepared for the 10th General Assembly, International Union of Geodesy and Geophysics, Rome, 1954; The Divining Rod: A History of Water Witching, Dept. of Interior, 1917, reprinted 1957; Benoit B. Mandelbrot and John W. Van Ness, "Fractional Brownian Motions, Fractional Noises and Applications," Siam Review, Vol. 10, No. 4 (Oct 1968); Jack Hockberger, "John Wesley Powell and the Political Crises of the United States Geological Survey, 1890-1892," Senior Honors Thesis, 25 Jan 1974.

Folders 120-122. Research in Water Resources, 1962-1979.

"Bibliography of Current Literature on Water Resources Development and Water Rights (1955-1963)," compiled by Water Resources Center Archives, University of California, Berkeley; testimony of Dr. Maass on water research before the Subcommittee on Irrigation and Reclamation of the House Committee on Interior and Insular Affairs, 14 Feb 1966; Maynard M. Hufschmidt, "The Role of Universities in Water Resources Education: The Social Sciences," paper presented at the annual general meeting of the University Council on Water Resources, 25 Jul 1966; Harry A. Steele, "Water Resource Education," presented at same meeting; Dean F. Peterson, "Federal Organization for Water Resources Research," presented at same meeting; Norman Wengert, "A Political Scientist Looks at Water Resources Research," paper presented at the Institute for Research on Land and Water Resources colloquium on the Social Sciences in Water Resources Research, Pennsylvania State University, 4 Jun 1968; Social Science Data Banks and the Institute for Water Resources, U.S. Army Engineer Institute for Water Resources, Jul 1974.

Folder 123. "Water Resources in the Resources for the Future Program," Mar 1964.

Folder 124. Office of Water Resources Research Evaluation, 1965-1966.

Folders 125-126. University Council on Water Resources Newsletters, 1966-1978.

Folder 127. Natural Hazard Research, 1970-1983.

President Nixon's message to Congress establishing the Environmental Protection Agency and the National Oceanic and Atmospheric Administration, 9 Jul 1970.

Folder 128. Harvard Water Program, 1965-1974.

Maynard M. Hufschmidt, "The Harvard Program: A Summing Up," 1965; Hufschmidt, "The Water Resource Planning Process: Relation to Corps of Engineers Planning," Jun 1965; a bibliography of selected publications by members of the Harvard Water Program, 1959-1965; Harold A. Thomas, Jr., "An Overview of Paretian Environmental Analysis," and Grant W. Schaumberg, Jr., "Topics in the Development and Application of Paretian Analysis," 24 Apr 1972.

Technology

This subsection contains information on many post-World War II technological developments. Subjects included are weather control; saltwater conversion; sedimentation; adverse effects of reservoirs; evaporation loss; arid lands research; design process; degradation of lakes; estuaries, coastal zones, and wetlands; and shoreline erosion.

Folder 129. Technology--General, 1962-1982.

H. Anton Keller, "Plowshare--A New Key to Water Resources Development," written for the U.S. Atomic Energy Commission, 31 Jul 1967.

Folder 130. National Research Council Committee on Environmental Regulation and Technological Innovation, 1979.

Folder 131. Weather Control, 1951-1983.

Regulations for U.S. Weather Control Commission, 1952; first interim report of the Advisory Committee on Weather

Control, Feb 1956; Frederick A. Berry, "The Evaluation of Weather Modification Experiments," Journal of the American Water Works Association, Vol. 48, No. 8 (Aug 1956); Jack C. Oppenheimer, "Technical Report No. 6: Legal Situation," Advisory Committee on Weather Control, ca. 1957; Oppenheimer, "Policy Considerations in Weather Modification," State Government, May 1957; Stanley A. Changnon, Jr., "Weather Modification: Winners and Losers," Water Spectrum (Spring 1980); Jamie K. Hartshorn, "Weather and Water," Western Water (Nov-Dec 1982); Howard T. Orville, "The Effects of Weather Modification on Water Supplies," n.d.

Folders 132-133. Saltwater Conversion, 1952-1981.

"Survey Report: Saline Water Conversion Program," Dept. of Interior, Nov 1958; Gilbert F. White, "We're Talking Ourselves Into a Water Crisis," Look (11 Sep 1962); Milton A. Chase, "Electric Power and Water Desalting," Public Power (Aug 1965); Gale Young, "Dry Lands and Desalted Water," Science, Vol. 167, No. 3917 (23 Jan 1970); William H. McCoy, "Desalting: An Offer You May Not Refuse," Water Spectrum (Spring 1980).

Folder 134. Sedimentation, 1950-1959.

"Survey Exonerates Hoover Dam Engineers: 275-Year Future Forecast," Christian Science Monitor (26 Jun 1950); address by W.G. Sloan before the Missouri Basin Inter-Agency Committee Meeting, 29 Jun 1950, "The Silt Problem in the Missouri River Basin."

Folder 135. Reservoirs, Adverse Effects, 1950-1959.

"Local Effects of the Wappapello Reservoir, Wayne County, Missouri, with Suggestions for Lessening Undesirable Effects of Reservoirs," Missouri Division of Resources and Development, Feb 1950; "Probable Economic Impacts of Inundation, Proposed Hopkinton-Everett Reservoir, Merrimack River Basin, New Hampshire," USDA Field Committee for New England-New York, Jul 1952; Reducing Adverse Effects of Reservoirs, Circular 293, Great Plains Council, Publication No. 6, Oct 1952; TVA Land Acquisition Experience Applied to Dams in the Missouri Basin, Bulletin 432, Great Plains Council Publication No. 9, Aug 1953.

Folder 136. Evaporation Loss Control, 1950-1965.

Folder 137. Arid Lands Research, 1961-1979.

Lora M. Shields and Linton J. Gardner, eds., Bioecology of the Arid and Semiarid Lands of the Southwest, New Mexico Highlands University Bulletin, 1961; "Arid and Semi-Arid Lands as a Focus for Political, Institutional, and Legal Research," project completion report by the Dept. of Political Science, Colorado State University, for the National Science Foundation, Sep 1978; "Working Papers: Workshop on Drought Research Needs," sponsored by the Corps of Engineers' Institute for Water Resources, National Science Foundation, WESTPO Institute for Policy Research, Western Regional Drought Action Task Force, and Western States Water Council, 14-15 Oct 1977; Helen Ingram, Rosemary Nichols, Anne Gault, and Patricia Rosenfield, "Management of Arid Lands: An Agenda for Research," Resources for the Future, n.d., ca. 1979.

Folders 138-139. Design Process, 1963-1974.

Hubert Marshall, "Rational Choice in Water Resources Planning," 1964; Irving K. Fox, "Statement to Senate Committee on Public Works on Water Resources and the U.S. Economy," 22 Mar 1965; Maynard F. Hufschmidt, "Field Level Planning of Water Resource Systems," Water Resources Research, Vol. 1, No. 2 (Second Quarter 1965); Alternatives in Water Management, National Academy of Sciences and National Research Council, 1966; P.O. Wolf, "Notes on the Management of Water Resources," Journal of the Institution of Water Engineers, Vol. 20, No. 2 (Mar 1966); Hufschmidt, "Environmental Planning with Special Relation to Natural Resources," Jul 1966; Henry P. Caulfield, Jr., Executive Director, Water Resources Council, "The Why and the How of Comprehensive River Basin Planning," remarks at the Annual Convention, National Reclamation Association, 17 Nov 1966; Hufschmidt, "Environmental Aspects of River Basin Planning," paper presented at the ASCE Environmental Engineering Conference, 6-9 Feb 1967; Allen V. Kneese, "Economics and Resource Engineering," Resources for the Future, Jul 1967; remarks of Gen. William F. Cassidy, John R. Hadd, and Rodney H. Resta, before National Academy of Sciences' Committee on Water, 20 Oct 1967; Burnham H. Dodge, "Federal View of Interagency River Basin Planning," Journal of the Waterways and Harbors Division, Proceedings of the American Society of Civil Engineers (Aug 1968).

Folder 140. Report, "Colorado Choices," National Academy of Sciences, 19 May 1967.

Folder 141. Lakes, Degradation, 1967-1971.

Folder 142. Estuaries, Coastal Zones, and Wetlands, 1967-1980.

"Increasing Protection for Our Waters, Wetlands, and Shorelines: The Corps of Engineers," Committee on Government Operations, 10 Aug 1972.

Folder 143. Shoreline Erosion, 1967-1971.

Specific Purposes

This subsection contains materials on the practical application of research and technological development in water resources. Subjects included are water transportation; flood control; hydro-power; rural electrification; municipal power systems; federal and state regulations; taxation and depreciation; irrigation; drainage; industrial and municipal water supplies; pollution control; waste water disposal; and river basin development.

Folders 144-146. Water Transportation, 1941-1981.

Manuscript, "Waterways," sent to Dr. Maass by the National Resources Planning Board, prepared from memoranda submitted by Adah L. Lee, formerly of the Brookings Institution, 1941; Our Waterways: Facts and Comments, Mississippi Valley Association, Dec 1950; Progress Report of the Senate Committee on Interstate and Foreign Commerce, "Domestic Land and Water Transportation," 19 Oct 1951; Report to the Congress by the Comptroller General of the United States, "Factors To Be Considered in Setting Future Policy for Use of Inland Waterways," 20 Nov 1975; Guy J. Kelnhofner, Jr., "The U.S. Waterway System: A Joint Venture," Water Spectrum (Spring 1981).

Folder 147. Cecil B. Haver and Edward F. Renshaw, "Analysis of

Interim Survey Report on Duplicate Locks for the Illinois Waterway by the U.S. Corps of Engineers," 24 Sep 1957.

Folder 148. "Brief Analysis of the Federal Inland Waterway Program," 10 May 1950.

Folders 149-152. Flood Control, 1945-1982.

"Federal Flood Insurance," Library of Congress, Legislative Reference Service, Dec 1951; Curt Rommel, "Floods and Insurance in the United States," Sep 1953; Federal Flood Insurance Act of 1956, 26 Apr 1956; U.S. Geological Survey, Atlas HA-14, "Floods at Topeka, Kansas," 1959; Corps of Engineers manual, "Flood Plain Information Studies," 29 Dec 1961; International Symposium on Floods and Their Computation, UNESCO, Leningrad, U.S.S.R., 15-22 Aug 1967; Flood Hazard Evaluation Guidelines for Federal Executive Agencies, Water Resources Council, May 1972; George K. Bernstein, "A Turning Point," Water Spectrum, Vol. 6, No. 2 (1974); Walter M. Linder, "Designing for Sediment Transport," Water Spectrum (Spring-Summer 1976); J.R. Wallis, "Risk and Uncertainties in the Evaluation of Flood Events for the Design of Hydrologic Structures," keynote address for Seminar on Extreme Hydrological Events: Floods and Droughts, Erice, Italy, 22-25 Mar 1980; James T. Lorelli, "Perceiving Flood Risk," Water Spectrum (Spring 1982).

Folder 153. Maass and Paul G. Haaga, "Allocation of Costs for Local Flood Control Protective Works," May 1941.

Folder 154. Robert W. Kates, "Decision Making in Resource Management: The Perception of Choice in Flood Damage Reduction," Jun 1962.

Folder 155. Public Works Historical Society, Bibliography for Chapters: "Waterways" and "Flood Control," 19 Dec 1980.

Folder 156. Hydropower, Demand and Projections, 1948-1981.

Geological Survey Circular 329, "Developed and Potential Water Power of the United States and Other Countries of the World," Dec 1952; Electricity on Farms in New York and New England, USDA Information Bulletin No. 124, 8 Jul 1954;

"Estimated Future Power Requirements of the United States," Federal Power Commission, Oct 1955; Judith D. Tendler, "Technology and Economic Development: The Case of Hydro vs. Thermal Power," Political Science Quarterly, Vol. 80, No. 2 (Jun 1965).

Folders 157-159. Hydropower, Public v. Private, 1948-1982.

Series of Dept. of Interior memos on public power developments in selected areas of the country, 3 Jul 1952; Herbert Hoover, "Federal Socialization of Electric Power," address at the Diamond Jubilee of the Case Institute of Technology, 11 Apr 1953; A.J.G. Priest, "Preference vs. Fair Play," address to the University Club, New York City, 17 Mar 1954; Walton Seymour, "The Partnership Policy in Regional Power Planning," American Economic Review, Vol. 46, No. 2 (May 1956); "Politics, River Development and Power: The Records of the Republican and Democratic Parties and Their Candidates for President and Vice President," Bulletin 255, National Popular Government League, 25 Sep 1956; "How Your Congressmen Voted in 1961," News for Electric Consumers, 13 Oct 1961.

Folder 160. Hydropower, O.S. Wessel, "Case Study--The TVA," 10-13 Mar 1953.

Folder 161. Hydropower, "National Power Policy: Supplemental Statement," 25 Apr 1954.

Folder 162. Hydropower, Alfred Wolf, "The Evolution of Federal Power Policy," 1 May 1954.

Folders 163-164. Hydropower, Construction Under FPC License and Partnership, 1950-1983.

U.S. Supreme Court decision, Chapman v. Federal Power Commission, 16 Mar 1953; Dept. of Interior power policy, 18 Aug 1953.

Folders 165-167. Hydropower, Power Marketing Policies, Truman Through Carter Administrations.

Address by Secretary of Interior Oscar L. Chapman at the Annual Convention of the National Rural Electric Cooperative

Association, 7 Mar 1950; address of Secretary of Interior Douglas McKay at luncheon meeting of the Commonwealth Club, 21 Aug 1953; agenda for meeting of officers of American Public Power Association and National Rural Electric Cooperative Association with President John F. Kennedy, Secretary of Interior Stewart Udall, and Secretary of Agriculture Orville Freeman, The White House, 23 Sep 1963.

Folders 168-169. Hydropower, Rural Electrification Administration, 1949-1981.

Eighth Intermediate House Report of the Committee on Expenditures in the Executive Departments, "A Study of Certain Operations of the Rural Electrification Administration," 1950; "Voting Records on Rural Electrification and Related Federal Wholesale Power and Rural Telephone Issues of Members Serving in the Senate and House from 1943 Through 15 April 1960," National Rural Electric Cooperative Association, Apr 1960; Clyde T. Ellis, The Challenge of Growth, National Rural Electric Cooperative Association, 1963.

Folder 170. Hydropower, Municipal Power Systems, 1953-1981.

"Construction Costs and Annual Production Expenses for Steam and Diesel Electric Plants, 1951-1952," American Public Power Association, 12 May 1953; More Power at Lower Cost, American Public Power Association, n.d., ca. 1954.

Folders 171-173. Hydropower, Federal and State Regulation, 1949-1981.

J.B. Clark, "Utility Rate Studies," presented to Finance and Accounting Committee Section of American Public Power Association Annual Meeting, Boston, 12-14 May 1953; Paul W. MacAvoy, The Effectiveness of the Federal Power Commission, Brookings Institution, 1971, reprinted from The Bell Journal of Economics and Management Science, Vol. 1, No. 2 (Autumn 1970).

Folder 174. Hydropower, Principal Holders of Stocks of the Larger Privately Owned Electric Utilities in the United States, 1952.

Folders 175-176. Hydropower, Taxation and Depreciation, 1949-1971.

Electric Utility Depreciation Practices, Federal Power Commission, 1949; Congress of the United States, Joint Committee on the Economic Report, 1 Jun 1956.

Folder 177. Hydropower, Timothy V.A. Dillon, "Federal Taxation of Income of Power Systems of the States and Their Political Subdivisions," A Study Prepared for the American Public Power Association, Nov 1952.

Folder 178. Hydropower, "Electric Power Projects Approved for Tax Certificates," 9 Jun 1951-30 Dec 1953.

Folders 179-182. Irrigation, 1944-1982.

Walter Slavik, "Reclamation's 1948-54 Long-Range Program," The Reclamation Era (Jan 1949); Clyde E. Stewart, "Successful Irrigated Farm Development--A Problem in Control and Use of Resources," paper presented at the Meetings of the Western Farm Economics Association, 29 Jun 1950; Paul F. Healy, "Our Most Arrogant Bureaucrat," an account of Bureau of Reclamation Chief Michael Strauss, Saturday Evening Post (19 Apr 1952); George A. Pavelis, "Irrigation Policy and Long-Term Growth Functions," Agricultural Economics Research, Vol. 17, No. 2 (Apr 1965); Measuring the Effect of Irrigation on Rate of Technological Change, USDA Economic Report 125, Nov 1967; Soil Conservation Service National Engineering Handbook, Section 15, "Irrigation," Chapter 6, "Contour-Levee Irrigation," USDA, Jul 1969; William E. Martin and Robert A. Young, "The Need for Additional Water in the Arid Southwest: An Economist's Dissent," Annals of Regional Science, Vol. 3, No. 1 (Jun 1969); Dr. Ellis L. Armstrong, Commissioner, Bureau of Reclamation, The Bureau of Reclamation's Role in America's Growth, 26 Oct 1970; "Review and Critique: Agricultural and Water Policies and the Environment," prepared for Western Agricultural Experiment Station Directors, 1974.

Folder 183. Irrigation and Reclamation Maps, 1939-1950.

Folder 184. Wells A. Hutchins, "Irrigation Institutions--Part I: Irrigation Organizations," 1952.

Folder 185. Irrigation, "Summary--Federal Reclamation and the Crop Surplus Problem," Feb 1956.

Folder 186. Henry D. Jacoby, "Current Practice in the Evaluation of Direct Irrigation Benefits," 1 Oct 1962, Revised, 1 Jul 1963.

Folder 187. Peter Rogers and Douglas V. Smith, "An Algorithm for Irrigation Project Planning," Sep 1968.

Folder 188. Garth N. Jones, "Water Control in Mormon Irrigated Agriculture," 1981.

Folder 189. Irrigation, Undated Working Paper.

Folder 190. Irrigation Loan Programs, 1957-1979.

Folder 191. Irrigation in the Eastern United States, 1954-1959.

Folder 192. Acreage Limitation, 1977. (Temporarily retained by Dr. Maass.)

Folder 193. Drainage, 1945-1971.

Folder 194. Industrial and Municipal Water Supplies, 1950-1981.

Francis Bello, "How Are We Fixed for Water?," Fortune (Mar 1954); Norman Wengert, "Institutional Constraints on the Development of a Regional Water Supply System: The Case of Detroit," paper presented at the Fourth American Water Resources Conference, 18-22 Nov 1968.

Folder 195. Blair T. Bower, Papers on Water Utilization, 1964-1965.

Folders 196-199. Water Pollution Control, 1937-1981.

Hearings before the House Subcommittee on Rivers and Harbors, "Extension of Water Pollution Control Act," 8 Apr and 20 May 1952; Allen V. Kneese, "Water Quality Management

by Regional Authorities in the Ruhr Area with Special Emphasis on the Role of Cost Assessment," Resources for the Future, Apr 1965; The Federal Water Pollution Control Program, Dept. of Interior, 2 Dec 1968; Joseph P. Biniek, "Economics of Water Pollution Control Measures," paper presented at 24th Annual Meeting of the Soil Conservation Society of America, 10-13 Aug 1969; M. Gordon Wolman, "The Nation's Rivers," Science, Vol. 174 (26 Nov 1971); Summary Report to Dr. Edward E. David, Jr., Science Adviser to the President, by an ad hoc Panel to Advise on National Water Quality Problems, 6 Dec 1971; Robert A. Shanley, Community Leader Attitudes on Water Pollution Abatement in Selected Massachusetts Communities on the Connecticut River, Publication No. 4, Water Resources Research Center, n.d.; Allen V. Kneese, "Approaches to Regional Water Quality Management," Background Paper D30-4, Resources for the Future, n.d.

Folder 200. Water Pollution Control, Publication Notices.

Folder 201. Water Pollution Control--Proposed Bill, 2 Feb 1966.

Folder 202. Robert Dorfman and Henry D. Jacoby, "An Illustrative Model of River Basin Pollution Control," 27 Jan 1969.

Folder 203. "Congressional Performance: A Case Study of National Water Pollution Control Legislation in the Post WWII Period," 1973.

Folder 204. Waste Water Disposal, 1969-1981.

Fumiko Seo, "Waste Disposal and Regional Planning," Kyoto Institute of Economic Research, May 1973.

Folder 205. River Basin Development, Fish and Wildlife, 1953-1982.

Folder 206. River Basin Development, Recreation, 1946-1971.

Raymond L. Anderson, "Wild Rivers: An Added Dimension in Water Resource Use," paper presented to Economics of Water Resource Development Conference, 9 Dec 1964; Guidelines for Evaluating Wild, Scenic and Recreational River Areas

Proposed for Inclusion in the National Wild and Scenic Rivers System under Section 2, Public Law 90-542, Dept. of Interior, Feb 1970.

Legislation

The records in this subsection deal with federal flood control or rivers and harbors legislation. Drafts of bills, committee reports, correspondence between the Congress and the White House, and Dr. Maass' notes on the proposed legislative initiatives comprise the bulk of the material.

Folder 207. Flood Control Bill, 1936.

Folder 208. Senate Joint Resolution 57, 1937.

Folder 209. Flood Control Bill, 1938.

Folder 210. Rivers and Harbors Legislation, 1939-1942.

Folder 211. Flood Control Bill, 1941.

Folder 212. Flood Control Bill, 1944.

Folder 213. Rivers and Harbors Legislation, 1945.

Folder 214. Flood Control Bill, 1946.

Folder 215. Rivers and Harbors Legislation, 1946.

Folders 216-223. Flood Control and Rivers and Harbors Bills, 1948-1966.

Folder 224. River Basin Act, 1967.

Folders 225-226. Flood Control and Rivers and Harbors Bills, 1968-1972.

Folder 227. Water Resources Development Acts, 1974-1980.

Organization for Water Resources Development, 1916-1983

The material in this subsection traces proposals, successful and unsuccessful, for organizing and reorganizing federal, state, and local agencies to enhance water resources development. Special notice should be given to papers dealing with the Hoover commissions.

Folder 228. Supporting Materials for Thesis, Undated.

Specific thesis not indicated.

Folder 229. Reorganization Proposals, 1916-1947.

The 1916 congressional debate on creation of the Waterways Commission and the Board of River Regulation; Executive Reorganization Act of 1939; Dr. Maass' notes on proposed transfer of Corps of Engineers to the Dept. of Interior.

Folder 230. National Resources Planning Board, Legislation and Appropriations, 1934-1980.

Folder 231. Water Resources Committee Reports, 1935-1945.

Folder 232. Coordination of Flood Control Investigations, 1936-1943.

Folder 233. Review of Project Reports, 1925-1944.

Folder 234. Control Through Budget Priorities, 1934-1943.

Folder 235. Executive Orders 8455 and 9384, 1940-1943.

Memos concerning executive orders to establish rules to govern submission of reports by construction agencies.

Folder 236. First Hoover Commission, General, 1949-1951.

Folder 237. "Post-Mortem on the Hoover Commission," New England Political Science Association Annual Meeting, 14 May 1949.

Folder 238. Citizens Committee for the Hoover Report, 1949-1953.

Address by Herbert Hoover before the National Reorganization Conference, 12 Dec 1949; Status of the Hoover Report 1949-1953, Vol. 2, Sep 1953.

Folder 239. Remarks by Dr. Maass on the Hoover Commission's Proposed Reorganization of the Army Corps of Engineers, n.d., ca. 1949.

Folder 240. Leslie A. Miller, "The Battle That Squanders Billions," Saturday Evening Post (14 May 1949).

Folder 241. Maass and Robert De Roos, "The Lobby That Can't Be Licked: Congress and the Army Engineers," Harper's (Aug 1949).

Folder 242. Maass and De Roos, Harper's Article, Correspondence and Comments, 1949-1950.

Folder 243. Reports on Proposed Transfer of Civil Works from Corps of Engineers to Dept. of Interior, 1950.

Folder 244. Maass, "Congress and Water Resources," American Political Science Review, Vol. 44, No. 3 (Sep 1950).

Folder 245. Abortive Reorganization, 1952.

Correspondence, memos, newspaper clippings, and articles regarding the attempt to merge the Army Corps of Engineers with the Bureau of Reclamation.

Folder 246. Second Hoover Commission, 1953-1958.

Correspondence and newsletters concerning the findings of the Second Hoover Commission.

Folders 247-249. Reorganization Efforts, 1953-1980.

James W. Fesler, "National Water Resources Administration," Law and Contemporary Problems (Summer 1957); Henry P. Caulfield, Jr., "The Water Resources Planning Act of 1965 and Federal State Collaboration in Comprehensive Water and Related Land Resource Planning," 1965 Western Interstate Water Conference, 7 Aug 1965; testimony of Dr. Maass before the Subcommittee on Reorganization, Research, and International Organizations of the Senate Committee on Government Operations, 27 Feb 1974; testimony of S. David Freeman before the same subcommittee, 27 Feb 1974.

Folder 250. Irving K. Fox, "Administrative Arrangements for Water Resources Planning and Development," 4 Dec 1962.

Folder 251. Irving K. Fox and Lyle E. Craine, "Organizational Arrangements for Water Development," n.d., ca. 1962.

Folder 252. Report on the Dept. of Natural Resources, n.d., ca. 1971.

Folder 253. Statement on the Federal Inter-Agency River Basin Committee (FIARBC), 26 May 1949.

Folder 254. Executive Controls, FIARBC, 1944-1963.

Folder 255. Norman Blacher, "The Columbia Basin Inter-Agency Committee," Aug 1949.

Folder 256. "Evaluation of Interagency Cooperation in the Development of Water Resources," ca. 1950.

Folders 257-258. Water Resources Council, 1965-1980.

Reports from the House Committee on Interior and Insular Affairs; testimony of Prof. Maynard M. Hufschmidt before the committee, 17 May 1966; remarks of Henry P. Caulfield, Jr., Executive Director of the council, at the 16th Annual Meeting of the Manufacturing Chemists' Association, 22 Nov 1966; interview with Warren Fairchild, Director of the council from 1973-1976, "Water Resources Council in Review," Water Spectrum (Summer 1977).

Folder 259. "Congressional Handling of Water Resources," Library of Congress Legislative Reference Service, 15 Dec 1967.

Folders 260-264. Organization of the Corps of Engineers, 1949-1983.

Staff memorandum of the Central and Southern Florida Flood Control District, "The Small Projects Program of the U.S. Army Corps of Engineers," 10 Aug 1956; address of Brigadier General R.G. MacDonnell before the Association of Western State Engineers, "Budgeting for Federal Water Development Projects," 31 Aug 1960; "Now--See the Innards of a Fat Pig," Life (16 Aug 1963); "The Taxpayers' Own Diggers and Builders," Fortune (Apr 1964); Water Resources Program Memorandum, "Dept. of the Army--Corps of Engineers--Civil Works," 30 Sep 1967; memo from the Chief of Engineers to Division Engineers, "Planning, Programming and Budgeting System," 29 Nov 1967; Corps' report on long-term goals and five-year program objectives, 12 Feb 1968; Elizabeth Drew, "Dam Outrage: The Story of the Army Engineers," The Atlantic (Apr 1970); statement of Major General Frank P. Koisch, Director of Civil Works, Corps of Engineers, before the House Subcommittee on Investigations and Oversight of the Committee on Public Works, 17 Jun 1971. The material also includes a number of the Corps' "Water Resources Planners' Bulletins," some handwritten notes by Dr. Maass, and some correspondence concerning his book about the Corps, Muddy Waters. See also Folder 488 on p. 78.

Folder 265. Notes on Organization for River Development, 6 Aug 1956.

Folder 266. "Alternative Institutional Arrangements for Managing River Basin Operations," Water Resources Council, Aug 1967.

Folder 267. Kerr Committee Investigation of Kansas Flood, 1951.

Folder 268. Jones Subcommittee Investigation to Study Civil Works Projects, 1951-1953.

Folder 269. Organization, Dept. of Interior, 1948-1982.

Minutes of a meeting of the program committee, 28 Jun 1948; Hans L. Trefousse, "Carl Schurz, the Indians, and the Public Lands," paper for American Historical Association convention, 1982.

Folder 270. Status Report, "Improvement of Programming in the Dept. of Interior," 16 Jul 1952.

Folder 271. Alternative Organization, Valley Authorities, 1942-1954.

Gordon R. Clapp, "The TVA: Development of a Region," 15 Feb 1954, and "Men and Management Rebuild a River," 17 Feb 1954.

Folders 272-273. Alternative Organization, Interstate Compacts, 1936-1979.

"The Missouri Basin's Water Resources: Organizing for Operation," Council of State Governments, Sep 1951; "Missouri River Basin Compact," Council of State Governments, Aug 1952; statement of Clifford H. Stone, Director of the Colorado Water Conservation Board, before the President's Missouri Basin Survey Commission, 26 Jun 1952; Frank J. Trelease, "A Federal-State Compact for Missouri Basin Development," ca. 1954; "Summary of Reports on the Delaware River Joint Toll Bridge Commission," Pennsylvania Depts. of Justice and of Highways, and New Jersey Highway Dept., n.d.

Folder 274. Ad Hoc Commissions, 1953-1972.

Folder 275. Comparative Organization, 1965-1975.

Irving K. Fox, "New Horizons in Water Resources Administration," Public Administration Review, Vol. 25, No. 1 (Mar 1965); Frank Munger and Anne Houghton, "Politics and Organization in Water Resource Administration: A Comparative Study of Decisions," Water Resources Research, Vol. 1, No. 3 (Third Quarter 1965).

Folder 276. State Organization, 1945-1972.

Ernest A. Engelbert, "A Report on State Government Organization and Administration for Natural Resources in California," Feb 1951; Engelbert, "State Alternatives to Federal Programs for Resource Development," n.d.; William McGoldrick, "Criticisms of a Model Act for Conservation Administration," 10 Apr 1955.

Folder 277. Connecticut "Little Hoover" Commission, 1949-1953.

Final report, "Survey Unit--Number 8.b., Conservation and Development."

Folder 278. Massachusetts "Little Hoover" Commission, 1950-1960.

General Laws Relating to Marine Fish and Fisheries, as amended through 1954; Special Report of the Division of Planning in the Department of Commerce, the Department of Natural Resources, the Department of Public Works and the Metropolitan District Commission, Sitting as a Joint Board, Relative to Plans and Proposals for the Massachusetts Bay Circuit, 1956.

Folder 279. Massachusetts "Little Hoover" Commission, Personal Notes.

Folder 280. Special Districts, 1956-1962.

Stephen C. Smith, "Problems in the Use of the Public District for Ground-Water Management," Land Economics, Vol.

32, No. 3 (Aug 1956); Smith, "The Role of the Public District in the Integrated Management of Ground and Surface Water," paper presented to the Committee on the Economics of Water Resources Development, 1957.

Water Rights and Water Law

This subsection is concerned with the heritage of American water rights law, especially as passed on from England. Research material on the subject and an article by Dr. Maass and Hiller B. Zobel comprise the bulk of the papers. The conflicts between the federal, state, and interstate development of water rights laws, and international water law also are represented.

Folders 281-282. Water Rights Systems in the United States, 1952-1978.

Rules, Regulations and Information Pertaining to Appropriation of Water in California, 1957; Third Annual Report of the State Water Rights Board of the State of California, Covering the Period 1 July 1958-30 June 1959; address to National Reclamation Association by Perry W. Morton, Assistant Attorney General of the United States, "Federal-State Relations in the Field of Water Rights," 29 Oct 1959; address by Kent Silverthorne, Chairman, California State Water Rights Board, before the Irrigation Districts Association of California, "Some Accomplishments and Problems of the State Water Rights Board," 19 Nov 1959; Vincent Ostrom, "Property, Proprietorship and Politics: Law and the Structure of Strategic Opportunities in the California Water Industry," Papers, Regional Science Association, Western Section, University of Oregon, 14-15 Jun 1963; Peter N. Davis, "Australian and American Water Allocation Systems Compared," Boston College Industrial and Commercial Law Review, Vol. 9, No. 3 (Spring 1968); H. Stuart Burness and James Quirk, "Appropriative Water Rights and the Efficient Allocation of Resources," Apr 1977; Burness and Quirk, "Water Law, Water Transfers and Economic Efficiency: The Colorado River," Aug 1978.

Folder 283. Maass and Hiller B. Zobel, "Anglo-American Water Law: Who Appropriated the Riparian Doctrine?," Public Policy, Vol. 10 (1960).

Master manuscript copy.

Folder 284. Maass and Zobel, Copies.

Other manuscript copies.

Folder 285. Maass and Zobel, Correspondence, 1955-1965.

Folder 286. Analysis of English Common Law of Watercourses, Notes and Correspondence, 1958.

Folder 287. Water Rights, Personal Notes.

Folder 288. Water Rights, Miscellaneous Publications, 1919-1979.

Folder 289. Federal, State, and Interstate Conflicts, 1951-1984.

Charles P. Schwartz, Jr., "Niagara Mohawk v. FPC: Have Private Water Rights Been Destroyed by the Federal Power Act?," University of Pennsylvania Law Review, Vol. 102, No. 1 (Nov 1953); address by Elmer Bennett, Solicitor, Dept. of Interior, at the Fall Convention of the Irrigation Districts Association of California, 12 Dec 1957; Clarence A. Davis, "Federal Encroachment on State Water Rights," address before the Section of Mineral and Natural Resources Law of the American Bar Association, 25 Aug 1958; Lois G. Forer, "Water Supply: Suggested Federal Regulation," Harvard Law Review, n.d.

Folder 290. Frank J. Barry, "The Federal Viewpoint Regarding Western Water Rights," 29 Dec 1965.

Folder 291. Borden F. Beck, Jr., "State and Interstate Water Law as Obstacles to Federal Water Resource Development," n.d.

Folder 292. International Water Law and Administration, 1957-1977.

John G. Laylin, "Principles of Law Governing the Uses of International Rivers," paper prepared for the 51st Annual Meeting of the American Society of International Law, 25 Apr 1957; Second Report of the Rapporteur of the Committee on the Uses of the Waters of International Rivers, International Law Association, New York University Conference, 1958; Dante A. Caponera, The Law of International Water Resources, Nov 1970; Legal and Institutional Responses to Growing Water Demand, Food and Agriculture Organization of the United Nations, 1977.

Folder 293. Lake Lanoux Case--Decision of the Arbitral Tribunal, 16 Nov 1957.

Decision between France and Spain on the utilization of the waters of Lake Lanoux.

Folder 293A. Student Paper, 1977.

Stefano Burchi, "International Legal Aspects of Pollution of the Sea from Rivers."

SECTION III

LAND AND AGRICULTURAL RESOURCES

This section is concerned with the development of government land-use policies. The subsections are basic data; farm conservation--programs and policies; general agricultural policy; forestry; and public lands and grazing. Most of the material consists of government news releases, newspaper clippings, conservation newsletters, and book notices. Significant documents are listed individually.

Basic Data

Basic data, the statistical information accumulated for the formulation of land and agricultural policy, includes mapping; projection of demand and resources; land use in the United States; farm costs and returns; pesticides and toxic chemicals; and world food and population.

Folder 294. Mapping, 1948-1973.

Technical Services: Coast and Geodetic Survey, Dept. of Commerce, Oct 1948; "Federal Surveys and Maps--Accomplishments During 1949," Dept. of Interior, Geological Survey; Geological Survey maps of the United States, 1950; The Coast and Geodetic Survey 1807-1957, Dept. of Commerce, 1957; 1:500,000 Space Photomap, Phoenix South, AZ, 1969.

Folder 295. Projection of Demand and Resources, 1951-1980.

The 5th Plate, USDA, Dec 1951; Sherman E. Johnson, "Prospects and Requirements for Increased Output," paper presented to the American Farm Economic Association, 28-30 Aug 1952.

Folder 296. Land Use in the United States, 1950-1983.

R. Burnell Held, "Can Other Uses Be Made of Agriculture's Excess Acres?," reprinted from Dynamics of Land Use--Needed Adjustment, 1961; "Vanishing Acres," series of seven articles published in The Des Moines Register (8-15 Jul 1979); "National Agricultural Land Study," USDA, 10 Jan 1980.

Folder 297. Farm Costs and Returns, 1962-1973.

Periodic Reports of Agricultural Economics, USDA, 1962-1963, 1973.

Folder 298. Pesticides and Toxic Chemicals, 1963-1983.

Fish, Wildlife and Pesticides, Dept. of Interior, May 1965; H.E. Stokinger, "Sanity in Research and Evaluation of Environmental Health," Science, Vol. 174.

Folder 299. World Food and Population, 1959-1981.

Farm Conservation--Programs and Policies

This material deals with various proposals and programs enacted by the federal government, as well as the consequences of such programs.

Folder 300. Conservation and Agricultural Policy--General, 1940-1980.

"Land and Water Policies of the Dept. of Agriculture," statement by Milton S. Eisenhower before the Subcommittee on National Water Policies, National Resources Planning Board,

15 Jan 1940; John D. Black, "Conservation and the Good Society," speech presented as part of the Great Issues Course at Dartmouth College, 14-15 Nov 1949; John M. Brewster, "The Relevance of the Jeffersonian Dream Today: A Current Look at Griswold's 'Farming and Democracy,'" paper prepared for Homestead Centennial Symposium, University of Nebraska, 11-14 Jun 1962.

Folder 301. Conservation Seminar and Research Project, 1950-1954.

Folder 302. Conservation Seminar and Research Project, Chapters.

Folder 303. Conservation Seminar and Research Project, Undated Materials.

Folder 304. Farm Planning and Extension, 1949-1968.

John D. Black, "The Coordination of the Best Soil Management Practices into Unified Farm Management Plans," United Nations Scientific Conference on the Conservation and Utilization of Resources, 13 Jun 1949; "Planning Farms for Soil Conservation," Soil Conservation Policy Conference, University of Chicago, 18-19 Apr 1953; Richard G. Wheeler, "New England Dairy Farm Management Project as an Example of the Operating Unit Approach to Farm Management Analysis," Journal of Farm Economics, Vol. 32, No. 2 (May 1950); Wheeler and Black, "Farm Planning--A Trial Operation," Journal of Farm Economics, Vol. 36, No. 2 (May 1954).

Folders 305-306. Soil Conservation Service Programs, 1948-1980.

Folder 307. Soil Conservation Districts--USDA, 1948-1952.

Reports, "Status of Organization, by States, Approximate Acreage, and Farms in Organized Districts."

Folder 308. Statement by John M. Wilkinson, Arthur D. Little, Inc., at Hearings on Stream Channelization, House Conservation and Natural Resources Subcommittee, 20-21 Mar 1973.

Folders 309-311. Watershed Programs, 1948-1954.

Water Conservation on Lands Under the Jurisdiction of the Department of the Interior, Office of Land Utilization, May 1950; Herbert M. Peet, "Report on Policy Research in the Department of Agriculture Agencies in the Northwest," Conference on Research on the Policy and Administration of Natural Resources, Social Science Research Council, University of Oregon, 8-9 Aug 1952; Don Kanel and Kris Kristjanson, "Local Participation in the Evaluation of Watershed Programs," Jan 1953; Robert J. Morgan, "Pressure Politics and Resources Administration," The Journal of Politics, Vol. 18 (1956); Watershed Program Evaluation: Honey Creek, Iowa, USDA, Jan 1965; Watershed Program Evaluation: Plum Creek, Kentucky, USDA, Aug 1965; Evaluating Flood Prevention in Upstream Watersheds with an Areal Point Sample, Jul 1967; Ayers Brinser, "Meshing Watershed Development with River Basin Development," n.d.

Folder 312. Answers to 17 Questions, House Committee on Public Works, Jan 1952.

Folder 313. Report, Nebraska Legislative Council Committee on Watershed Legislation, Aug 1952.

Folder 314. Maass, "Protecting Nature's Reservoir," Public Policy, Vol. 5 (1954).

Folder 315. "Protecting Nature's Reservoir," Correspondence, 1946-1964.

Folder 316. Watershed Research, Soil-Water Relationships, 1949-1982.

Howard L. Cook, "The Effects of Land Management Upon Run-off and Ground Water," Drainage Basin Management, 1949; Vegetation Management and Water Yields in the 17 Western States, Senate Select Committee on National Water Resources, 1959; Joseph F. Arnold, "The Arizona Watershed Program Objectives, Genesis and Citizen Participation," paper presented at the 18th Annual Meeting of the Soil Conservation Society of America, 26 Aug 1963.

Folder 317. Robert Teeters, "Ground Cover as an Engineering Factor," 11 Apr 1950.

Paper delivered at Ohio Water Congress.

Folder 318. Caleb Warner, "Vegetal Cover as an Assisting Factor in Flood Abatement," May 1949.

Folder 319. Reclamation of Strip Mines, 1967-1977.

Folders 320-321. Resources Conservation Act, 1977-1983.

RCA Process Summaries, 1979; memos from meetings concerning the act; Summary of Appraisal, Parts I and II, and Program Report, USDA, 1980; Christopher Leman, "Political Dilemmas in Evaluating and Budgeting Soil Conservation Programs: The RCA Process," in Harold Halcrow, Melvin Cotner, and Earl Heady, eds., Soil Conservation Policy, Institutions, and Incentives, 1982.

Folder 322. Agriculture Conservation Program, USDA, 1949-1983.

ACP National Bulletin, Jul 1949 and Aug 1951.

Folder 323. Credit and Conservation, 1948-1979.

Ayers Brinser and Richard G. Wheeler, "Farm Planning as a Basis for Extending Agricultural Credit," Journal of Farm Economics, Vol. 30, No. 2 (May 1948); "Agricultural Credit, 1953: A Report to the Committee on Agriculture of the National Planning Association."

Folder 324. Tenure and Conservation, 1947-1956.

Appeal to Circuit Court, People of Puerto Rico v. Eastern Sugar Associations, 1947.

Folder 325. Taxation and Conservation, 1953-1974.

Folder 326. Zoning and Conservation, 1938-1979.

Virgil Hurlburt, "Rural Zoning in Pennsylvania," USDA, Jun 1938; "Rural Zoning and Land Use Planning," USDA, 1940; "Possibilities of Rural Zoning in South Dakota: A Study in

Carson County," USDA, Bulletin 345, Sep 1940; "Rural Zoning in Wisconsin," University of Wisconsin, Bulletin 479, Nov 1948; Erling D. Solberg, "Rural Zoning, Present and Future," Journal of Farm Economics, Vol. 33, No. 4 (Nov 1951); Solberg, "Planning and Zoning to Prevent Land and Water Problems in Suburbia," address to Urban Extension Agents Conference, 12-13 Jun 1962; Solberg, "The Role of Zoning in Community Planning and Development," address to 60th Annual Convention of Association of Southern Agricultural Workers, 4-6 Feb 1963; Norman Wengert, "Constitutional Principles Applied to Land Use Planning and Regulation: A Tentative Restatement," Natural Resources Journal (Jan 1979).

Folder 327. Land Reclamation, 1951-1953.

Critiques of Chapter 11, "Land Reclamation," of the report of the President's Water Resources Policy Commission; Rudolph Ulrich, "Relative Costs and Benefits of Land Reclamation in the Humid Southeast and the Semiarid West," Journal of Farm Economics, Vol. 35, No. 1 (Feb 1953).

Folders 328-329. Fertilizer Programs, 1944-1975.

K.D. Jacob, "Phosphate Resources and Manufacturing Facilities in the United States," Short Course in Fertilizer Technology, University of Maryland, 21-25 Aug 1950; address by Roscoe E. Bell, Associate Director of the Bureau of Land Management, to Farmers' Union Conference, "Management of Uncle Sam's Acres," 25 Jan 1951; statement of Frank K. Woolley at hearing on fertilizer supplies before Special Fertilizer and Farm Machinery Subcommittee of House Committee on Agriculture, 20 Feb 1951; K.G. Clark and John O. Hardesty, "Observations on the Treatment of Phosphate Rock with Nitric Acid with Special Reference to Practice in the Netherlands and Norway," 30 Mar 1951; address of Secretary of Agriculture Charles F. Brannan at convention of American Plant Food Council, 16 Jun 1951; Gordon R. Clapp, "Farms, Fertilizers, and Munitions," 19 Feb 1954.

Folder 330. "Fertilizer Resources and Requirements of the U.S.," n.d.

Folder 331. Special Program for "Fifth Farm," Depressed Agriculture, 1951-1970.

Underemployment of Rural Families, Joint Committee on the Economic Report, U.S. Congress, 1951; Jackson V. McElveen and Kenneth L. Bachman, Low Production Farms, USDA, Jun 1953; Development of Agriculture's Human Resources, USDA, Apr 1955; Stephen Smith, Problems of Underemployed Rural People, TVA, Jun 1955; Industrial Employment and Other Factors in Selecting an Area for Rural Development, USDA, 1958; New Life for the Country: Report of the President's Task Force on Rural Development, 1970.

Folder 332. Conservation, Organization, and Politics, 1948-1979.

Charles M. Hardin, "Current Proposals for the Organization of Conservation and Land-Use Programs in Agriculture, the United States," Journal of Farm Economics, Vol. 30, No. 4 (Nov 1948); Hardin, "Land or People?," Land Economics, Vol. 17, No. 2 (May 1951); O.V. Wells, "The Fragmentation of the BAE," Journal of Farm Economics, Vol. 36, No. 1 (Feb 1954); Hardin, "Present and Prospective Policy Problems of U.S. Agriculture: As Viewed by a Political Scientist," Journal of Farm Economics, Vol. 47, No. 5 (Dec 1965).

Folder 333. Report, Proposed Reorganization of Dept. of Agriculture, n.d.

Folder 334. Rural America, Power Struggle, 1948-1964.

Charles M. Hardin, "Farm Political Power and the U.S. Governmental Crisis," Journal of Farm Economics, Vol. 40, No. 5 (Dec 1958).

General Agricultural Policy

Folder 335. Agricultural Policy, General, 1954-1974.

The Story of Farmers' Cooperatives, Farmers' Cooperative Service Educational Circular 1, Jun 1954; Farm Population ... Migration to and from Farms, 1920-1954, USDA, Dec 1954; A New U.S. Farm Policy for Changing World Food Needs, Research and Policy Committee of the Committee for Economic Development, Oct 1974.

Folder 336. Agricultural Price Policies and Price Support Programs, 1949-1959.

John D. Black, "Secretary Brannan's Proposed Farm Price-Support Program, ca. 1950; John Kenneth Galbraith, "The Present Farm Position," Nov 1953; D. Gale Johnson, "Agricultural Price Policy," 14 May 1954; Galbraith, "Farm Policy: Some Proposals for Improvements," Dec 1954.

Forestry

These papers relate to both the public and private realms of forestry conservation and management. Some of the areas covered are projections and research; federal administration of forests; education and technical assistance; insurance; cooperatives; and state forestry administration.

Folder 337. Forestry, General, 1940-1981.

Living and Forest Lands, USDA, 1940; paper presented by Ellery Foster at Conservation Conference, 12 May 1949, "Selective Cutting: The Way to Save Our Forests"; Highlights in the History of Forest Conservation, USDA, 1961; E.M. Gould, Jr., "The Future of Forests in Society," The Forestry Chronicle, Vol. 40, No. 4 (Dec 1964); Wengert, "Changing Relationships Between Government and the Forest Products Industries," May 1966; Dewey Anderson, "Forest Policies and Practices for Today and Tomorrow: A Conservationist Statement," Feb 1973; Wengert and A.A. Dyer, The "Purposes" of the National Forests--A Historical Reinterpretation of Policy Development, Jan 1979.

Folder 338. Forestry Projections, 1947-1980.

"The Forest Resource Situation," a summary of comments by R.E. Marsh, Assistant Chief, Forest Service, before the Senate National Resources Economic Subcommittee, 11 Jul 1947; address by Richard E. McArdle, Chief, Forest Service, "Timber Resources for America's Future," 17 Oct 1955; People and Timber, USDA, 1956; A Summary of a Renewable Resource

Assessment and a Recommended Renewable Resource Program,
USDA, Feb 1976.

Folder 339. Forestry Research, 1949-1978.

Harvard Forest Paper, "Mound and Pit Microrelief in Relation to Soil Disturbance and Tree Distribution in New Brunswick, Canada," by W.H. Lyford and D.W. MacLean, 1966. USDA publications: Report of the Chief of the Forest Service, 1949; Wood Chips for the Land, 1952; Grazing Longleaf-Slash Pine Forests, Nov 1953.

Folder 340. Federal Administration, 1946-1980.

Operation Multiple Use: Program for the National Forests, USDA, Jul 1960; Charles A. Reich, Bureaucracy and the Forests, 1962; Marion Clawson, "The National Forests," Science, Vol. 191, No. 4227 (Feb 1976).

Folder 341. Federal Marketing, 1944-1980.

Folder 342. General Accounting Office Report of Investigation of the Sale of Government-Owned Timber, 31 Mar 1953.

Folder 343. USDA Evaluation of Forest Service Timber Sales Activities, Mar 1955.

Folder 344. Grant-In-Aid Program for Destructive Agents, 1945-1978.

Folder 345. Forest Education and Technical Assistance, 1950-1980.

"Why a National Renewable Resources Extension Program Is Needed," remarks by M. Rupert Cutler, Assistant Secretary for Natural Resources and Environment, 24 Jan 1980.

Folder 346. Forest Credit, 1950-1972.

Folder 347. Forest Taxation, 1949-1980.

Report of Timber Tax Study Committee, Nov 1954.

Folder 348. Ellis T. Williams, Forest Insurance, Jun 1949.

Folder 349. Forest Cooperatives, 1947-1950.

Forest Cooperatives in the United States, USDA, 1947; Otsego Forest Products Cooperative Association of Cooperstown, New York: An Evaluation, Sep 1950.

Folder 350. Forest Regulation, 1949-1959.

Folder 351. Programs for Operating Units, 1939-1978.

Robert L. Miller and John H. Southern, "Management Intent of Small Timberland Owners in East Texas," May 1960; E.M. Gould, Jr., "Planning for Forest Development on Small Holdings," Journal of Forestry (Oct 1968); "Forest Management Alternatives for Three Landowners in Central Massachusetts," n.d.

Folder 352. Forest Industry Programs and Administration, 1961-1968.

Folder 353. State Forestry Administration, 1949-1978.

Report of the Committee Appointed to Study Forest Conservation in Vermont, Harvard University, 1 May 1951; Report of the Senate Interim Committee on Public Lands: Forestry Problems, State of California, 27 Apr 1953.

Folder 353A. Student Paper, 1951.

Joseph F. Arnold, "Absentee Public Ownership and Federal Forest Management."

Folder 353B. Student Paper, 1952.

Joseph F. Arnold, "Forage Management in the Multiple-Purpose Forest Lands of Northern Arizona."

Public Lands and Grazing

These documents deal with government policies and use of public lands. They cover grazing research and range management; administration of grazing lands; baselands and improvements; fees; reorganization proposals; and miscellaneous uses of public lands.

Folder 354. Grazing Research and Range Management, 1949-1966.

USDA publications: Managing Northern Great Plains Cattle Ranges to Minimize Effects of Drought, Mar 1951; Ecological Effects of Planned Burning of Sagebrush-Grass Range on the Upper Snake River Plains, Jul 1953; Effect of Grazing Intensity Upon Vegetation and Cattle Gains on Ponderosa Pine-Bunchgrass Ranges of the Front Range of Colorado, Dec 1953; Rain Traps for Intercepting and Storing Water for Livestock, Aug 1966.

Folder 355. Grazing Administration, 1948-1982.

Correspondence regarding a controversy between Secretary of Interior Douglas McKay and Marion Clawson, Director of the Bureau of Land Management, 1953; student paper by Samuel P. Hays, "The Taylor Grazing Act of 1934: Its Background and Its Past and Future Administration," n.d.

Folder 356. Tenure, Baselands, and Improvements, 1949-1976.

C.W. Loomer and V. Webster Johnson, Group Tenure in Administration of Public Lands, USDA, Dec 1949; address by Assistant Secretary of Interior Orme Lewis to the National Association of Soil Conservation Districts, 25 Feb 1954; an undated, anonymous 55-page paper discussing the advantages and disadvantages of public versus private ownership of the federal grazing lands in New Mexico.

Folder 357. Grazing Fees, 1949-1984.

Folder 358. Grazing Advisory Boards, Appointments and Recommendations, 1949-1977.

Folder 359. Proposals for Reorganization of the Executive Branch, 1934-1940.

Folder 360. Report of the Natural Resources Committee to the Commission on the Organization of the Executive Branch, 1948-1949.

Folders 361-362. Public Lands, Miscellaneous Uses, 1949-1982.

Brief Notes on the Public Domain, Dept. of Interior, 16 Jul 1950; Survey of National Policies on Federal Land Ownership, Legislative Reference Service, Library of Congress, 1957; Program for the Public Lands and Resources, Dept. of Interior, May 1962; The Public Land Law Review Commission: Background and Need, House Committee on Interior and Insular Affairs, 24 Sep 1964; Norman Wengert, "The Political Context of Public Land Policy," paper presented at Western Resources Conference, 1-3 Jul 1968; Daniel H. Henning, "The Public Land Law Review Commission: A Political and Western Analysis," Public Land Law Review, Vol. 7 (1970); M. Rupert Cutler, "Wilderness and the Political Landscape," address to Society of American Foresters, 5 Oct 1977; Off-Road Vehicles on Public Land, Council on Environmental Quality, 1979.

Folder 362A. Student Paper, n.d.

Study on the use of advisory boards in federal grazing administration. No author or title indicated.

SECTION IV

MINERAL RESOURCES

Mineral Resources is divided into two subsections: general and energy minerals. The general subsection deals with the status of mineral resources; general government programs; subsidies and tax incentives; regulations; research programs; and mining laws. The energy minerals subsection covers a broad range of subjects, including power plants; atomic energy; oil; natural gas; geothermal energy; coal; and other miscellaneous energy technology.

General

Folder 363. Mineral Resources of the United States, 1950-1975.

Folder 364. Government Programs, 1948-1974.

Dept. of Interior report to the Council of Economic Advisers, Dec 1948.

Folder 365. Government Subsidies and Tax Incentives, 1947-1965.

Statement of Assistant Secretary of Interior C. Girard Davidson before the House Subcommittee on Mines and Mining, 10 Mar 1949; Legislative History of Depletion Allowances, Joint Committee on Internal Revenue Taxation, Mar 1950; address by Felix Edgar Wormser, Assistant Secretary for Mineral Resources, before the American Mining Congress, 21 Sep 1953; semiannual report of the Office of Minerals Exploration, Dept. of Interior, period ending 30 Jun 1959.

Folder 366. Government Regulations, 1950-1951.

Folder 367. Government Research Programs, 1953-1966.

Folder 368. Public Domain Mining Laws, 1950-1981.

Address by C. Girard Davidson, Assistant Secretary of Interior for Mineral Resources, before the American Mining Congress, 30 Aug 1950.

Folder 369. Statement of Under Secretary of Interior Clarence A. Davis Before Senate Subcommittee on Legislative Oversight and House Subcommittee on Power and Natural Resources, 26 Jan 1956.

Folder 370. Organization for Minerals Programs, 1950-1962.

Executive Order No. 10161, on the delegation of authority to the Secretary of Interior in regard to petroleum, gas, solid fuels, and electric power, 9 Sep 1950.

Folder 371. Foreign Investment in Mineral Industries, 1971.

Energy Minerals

Folders 372-373. Energy Requirements, 1950-1980.

Federal Power Commission publications: "World Power Data, 1958," Jul 1959; "World Power Data, 1959," Aug 1960; "World Power Data, 1960," Aug 1961. Production of Mineral Fuels and Hydropower in the United States Since 1800, Dept. of Interior, 1963; Sam H. Schurr, "The Outlook for Energy Resources in the United States," Oct 1968; A Review of Energy Issues and the 91st Congress, Environmental Policy Division, Congressional Research Service, Library of Congress, 29 Jan 1971; Improving Energy Efficiency: The Role of Public Policy, Columbia University, 1978.

Folders 374-375. Federal Power Commission National Power Survey, Reports 1-24, 1963-1964.

Folder 376. Federal Power Commission National Power Survey, Miscellaneous, 1962-1980.

Folder 377. Power Plant Sites, 1971-1980.

Section of President Nixon's 1971 environmental message dealing with power plant sites; Joseph C. Swidler, "The Critical Path Between Energy and the Environment," Public Power (Nov-Dec 1971); remarks by Russell E. Train, Chairman, Council on Environmental Quality, before the American Power Conference, 8 May 1973, and before the Washington Rotary Club, 13 Jun 1973.

Folder 378. Proposals for National Power Grids, 1974-1981.

Folder 379. Atomic Energy, General, 1947-1979.

Address by David E. Lilienthal, Chairman, Atomic Energy Commission, before the Economic Club of Detroit, 6 Oct 1947; Report to the United States Atomic Energy Commission by the Industrial Advisory Group, 15 Dec 1948; press conference, AEC, 29 Dec 1948; remarks of Gordon Dean, Commissioner, AEC, at Duke University, 15 Mar 1950; remarks of Sumner T. Pike, Acting Chairman, AEC, at Mount Holyoke College, 28 Mar 1950; remarks by Gordon Dean at University of Pittsburgh Law School, 15 Feb 1951; remarks of Sumner T. Pike at University of Rochester, 16 Feb 1951; remarks of Gordon Dean at Northwestern University, 28 Feb 1951, and at the Edison Electric Institute, 4 Jun 1953; remarks by Eugene M. Zuckert, Commissioner, AEC, before the National Association of Manufacturers' Congress of American Industry, 4 Dec 1953; remarks of Thomas E. Murray, Commissioner, AEC, at Marquette University, 5 Dec 1953; Nuclear Energy and National Security, Research and Policy Committee of the Committee for Economic Development, Sep 1976.

Folder 380. Atomic Energy Legislation, 1950-1969.

Congressional reports on amending the Atomic Energy Act of 1946.

Folder 381. Atomic Energy Patents, 1950-1953.

Folder 382. Atomic Mineral Resources, 1950-1954.

Addresses by members of the Atomic Energy Commission: Phillip L. Merritt before the Canadian Institute of Mining and Metallurgy, 18 Apr 1950; Robert J. Wright before the Mining Branch of the Southern California Section of the American Institute of Mining and Metallurgical Engineers, 14 Jun 1950; Jesse C. Johnson at the meeting of the American Mining Congress, 30 Aug 1950, and before the American Institute of Mining and Metallurgical Engineers, 31 Oct 1951; Sheldon P. Wimpfen at the meeting of the National Fertilizer Association, 14 Nov 1951; Henry D. Smyth before the Western Division of the American Mining Congress, 25 Sep 1952.

Folder 383. Atomic Energy Radiation Hazards, 1950-1976.

Statements of Atomic Energy Commissioners before the Joint Congressional Committee on Atomic Energy, 17 Mar 1950; remarks by Willard F. Libby, Commissioner, AEC, at the Washington Conference of Mayors, 2 Dec 1954; "A-Plants: An Airing of Benefits vs. Risks," Washington Post (6 May 1971).

Folder 384. Atomic Energy Research, 1950-1969.

"Atomic Research and Development: The Role of Industry," Atomic Industrial Forum Staff, 12 Feb 1960; addresses by AEC commissioners: T. Keith Glennan at "Radioisotopes in Industry" Conference, 5 Apr 1951; Willard F. Libby at the National Industrial Conference Board, 14 Oct 1954; Paul B. Pearson at the Institute of Atomic Energy, 2 Dec 1955.

Folders 385-386. Atomic Energy Power, 1948-1979.

Martin Mann, "How to Run an Atomic Power Plant," Popular Science (Feb 1948); address by Philip Sporn, President of American Gas and Electric Service Corp., to the National Coal Association, 7 Oct 1949; Walter Isard and Vincent Whitney, "Atomic Power and the Location of Industry," Harvard Business Review (Mar 1950); remarks by Lawrence R. Hafstad, Commissioner, AEC, before the Society of Automotive Engineers, 23 May 1950; remarks by Gordon Dean, Commissioner, AEC, before the New York State Chamber of Commerce, 7 Jun 1951; remarks by Eugene M. Zuckert, Commissioner, AEC, before the Chicago Section of the American Chemical Society, 11 Sep 1952, and before the National Industrial Conference Board's Second Annual Conference on Atomic Energy in Industry, 29 Oct 1953; Samuel B. Morris, "Report on Policies Affecting AEC Legislation," address before the American

Public Power Association, 13 May 1953; remarks by Thomas E. Murray, Commissioner, AEC, before the Electric Companies Public Information Program, 22 Oct 1953; address by Leland Olds, "Amending the Atomic Energy Act: An Attack on the Federal Electric Power Policy," before the Washington Association of Scientists, 17 Nov 1953; remarks by Henry D. Smyth, Commissioner, AEC, before the American Institute of Chemical Engineers, 9 Mar 1954; remarks by Charles G. Manly, Commissioner, AEC, before the American Public Power Association, 11 Oct 1955.

Folder 387. George Perazich, "The Role of Nuclear Power in the Development of an Arid Region: A Case Study of Negeb-Dead Sea Area," 6 Jul 1955.

Folder 387A. Atomic Energy--Student Paper, 1945.

Dean M. Hennessy, "The Legislative History of the Atomic Energy Act of 1946."

Folders 388-389. Oil, 1948-1978.

Howard R. Williams, "Conservation of Oil and Gas," Harvard Law Review, Vol. 65 (1952); address by Under Secretary of Interior Elmer F. Bennett before the Rocky Mountain Mineral Law Institute, 30 Jul 1959; Report of the Attorney General Pursuant to Section 2 of the Joint Resolution of August 7, 1959, Consenting to an Interstate Compact to Conserve Oil and Gas, 15 May 1963.

Folder 390. Oil from Synthetics, 1949-1979.

Helping Insure Our Energy Future: A Program for Developing Synthetic Fuel Plants Now, Research and Policy Committee of the Committee for Economic Development, Jul 1979.

Folder 391. Oil from Shale, 1948-1975.

Hans H. Landsberg, "Factors in the Long-Range Competitive Setting of Shale Oil," Resources for the Future, Aug 1965.

Folder 392. Interim Report of the Oil Shale Advisory Board, 1 Feb 1965.

Folder 392A. Oil--Student Papers, 1949-1950.

E.W. Browne, Jr., "An Ideal Domestic Conservation Policy for Petroleum"; Vincent E. Starzinger, "The Mixed Economy and Future United States' Petroleum Policy."

Folder 392B. Oil--Student Paper, 1951.

Bayley F. Mason, "Conservation of Oil and the Law of Capture."

Folders 393-395. Tidelands, 1949-1979.

Folders 396-398. Natural Gas, 1949-1979.

Folder 398A. Natural Gas--Student Paper, 1950-1951.

Lloyd Rudolph, "The Kerr Bill."

Folder 399. Geothermal Energy, 1971-1978.

Folder 400. Coal, 1948-1981.

Folder 401. Miscellaneous Energy Technology, 1975-1981.

Folder 402. Iron and Steel, 1949-1976.

Address by Secretary of Interior Oscar L. Chapman at the Annual Convention of the CIO, 23 Nov 1950.

Folder 403. Light Metals, 1948-1967.

Folder 404. Other Commodities, 1949-1971.

"Copper Industry: Outlook for 1961 and Review of 1960," Dept. of Commerce, 19 Jan 1961.

SECTION V

SOLAR, WIND, AIR, AND OCEAN RESOURCES

These papers relate to research on solar and wind energy and to the development of the ocean's natural resources. They also are concerned with problems of air pollution, acid rain, solid waste disposal, and noise abatement.

Folder 405. Solar Energy, 1950-1979.

Folder 406. Wind Energy, 1950-1980.

Fitting Wind Power to the Utility Network, FPC, Feb 1954.

Folders 407-408. Air Pollution, 1950-1981.

A Digest of State Air Pollution Laws, 1961 Supplement, Dept. of HEW; The Impact of the Clean Air Act on Air Pollution Control Programs, Dept. of HEW, Jan 1965; Ronald O. Loveridge, "Air Pollution and the Public Will," Feb 1967; Henry D. Jacoby and John D. Steinbruner, "Salvaging the Federal Attempt to Control Auto Pollution," Public Policy (ca. 1974).

Folder 409. "Federal Policy on Automotive Emissions Control," Harvard Public Policy Program, 30 Dec 1971.

Folder 410. Acid Rain, 1979-1982.

Folder 411. Solid Waste Disposal, 1966-1981.

President Nixon's 9 Jul 1970 message to Congress on the establishment of the Environmental Protection Agency and the National Oceanic and Atmospheric Administration.

Folder 412. Noise Abatement, 1966-1980.

Folder 413. Proceedings of the Rutgers Noise Pollution Conference, 22 May 1968.

Folder 414. "Noise, Sound Without Value," Federal Council for Science and Technology, Sep 1968.

Folder 415. Interior Dept. Study on Noise and Sonic Boom in Relation to Man, 4 Nov 1968.

Folder 416. Maass Barrier Proposal, 4 Mar 1970.

Letter to Dr. Maass from Joseph L. Ignazio, Chief, Basin Planning Branch, Corps of Engineers, regarding Maass' recommendation of a barrier fence or other screening device along Storrow Drive on the Boston side of the Charles River. Original proposal not included.

Folder 417. Ocean Resources, 1959-1981.

New Knowledge From the Global Sea: The Programs and Mission of the Environmental Science Services Administration's Institute for Oceanography, Dept. of Commerce, 1967; a portion of President Nixon's 8 Feb 1971 message on the environment, dealing specifically with ocean dumping; Francis T. Christy, Jr., "Property Rights in the World Ocean," Natural Resources Journal (Oct 1975).

Folders 418-419. Commercial Fisheries, 1945-1974.

Rachel L. Carson, Fish and Shellfish of the Middle Atlantic Ocean, Dept. of Interior, 1945; George L. Clarke, "Dynamics of Production in a Marine Area," Ecological Monographs, Vol. 16 (Oct 1946); "Statement on the Proposed Substitute Plan for the Development of the Rogue River Basin, Oregon," Dept. of Interior, 12 May 1952; Annual Report of the Director, Fish and Wildlife Service, to the Secretary of the Interior, for fiscal year ending 30 Jun 1954; Francis T. Christy, Jr., "Efficiency in the Use of Marine Resources," Resources for the Future (Sep 1964).

Folder 420. Estuarine Resources, 1967.

SECTION VI

RECREATION

The bulk of this section deals with the government's involvement with recreational areas. The section also includes folders on fish and wildlife and on natural beauty.

Folders 421-424. Recreation, General, 1948-1982.

Remarks of Senators Hubert H. Humphrey and Richard L. Neuberger on the wilderness bill, Congressional Record (11 Feb 1957); Ernest M. Gould, Jr., "Forestry and Recreation," paper presented before the Joint Meeting of the Western Farm Economics Association and the Committee on the Economics of Water Resources Development, Aug 1962; a bill "to establish a land and water conservation fund to assist the States and Federal agencies in meeting present and future outdoor recreation demands and needs of the American people," recommended to President Kennedy by the Secretary of Interior, 28 Jan 1963; a portion of President Nixon's 8 Feb 1971 environmental message, dealing with the legacy of parks.

Folder 425. Recreation, General Publications, 1957-1975.

Beach Erosion Studies, Corps of Engineers, 29 May 1957; Planning for Public Works, Jul 1957; Marion Clawson, "The Crisis in Outdoor Recreation," American Forests (Mar-Apr 1959); Outdoor America, Izaak Walton League (Sep-Oct 1959); Ernest M. Gould, Jr., Forestry and Recreation, 1962; Federal Executive Branch Policy Governing the Selection, Establishment, and Administration of National Recreation Areas, Recreation Advisory Council, 26 Mar 1963; A National Program of Scenic Roads and Parkways, Recreation Advisory Council, 9 Apr 1964; General Policy Guidelines for Outdoor Recreation, Recreation Advisory Council, 9 Apr 1964; Policy Governing the Water Pollution and Public Health Aspects of Outdoor Recreation, Recreation Advisory Council, 9 Apr 1964; Federal Assistance in Outdoor Recreation, Dept. of Interior, 1964; Calvin W. Stillman, The Price of Open Space: The Need for Research, 1966; Criteria for Parklands,

National Park Service, 1967; Private Assistance in Outdoor Recreation, Dept. of Interior, 1968; National Scenic and Recreation Trails, Depts. of Interior and Agriculture, Mar 1970; Daniel H. Henning, "The Ecology of the Political/Administrative Process for Wilderness Classification," Natural Resources Journal, Vol. 11 (Jan 1971); Henning, "Environmental Policy and Politics: Value and Power Context," Natural Resources Journal, Vol. 11 (Jul 1971); Outdoor Recreation Action, Dept. of Interior, Winter 1975; The New Bureau of Outdoor Recreation, Dept. of Interior, n.d.

Folder 426. Morton Grodzins, "The Many American Governments and Outdoor Recreation," 1962.

Folders 427-428. Recreation, Fish, and Wildlife, 1948-1984.

Statement by Assistant Secretary of Interior Wesley A. D'ewart before the House Committee on Merchant Marine and Fisheries regarding a bill for transfer of land from the Wichita Mountains Wildlife Refuge to the Fort Sill Military Reservation, 23 May 1956.

Folder 429. Natural Beauty, 1965-1970.

USDA Helps Beautify the American Countryside, USDA, May 1965; addresses by Russell E. Train, President of the Conservation Foundation, "America the Beautiful," 6 Sep 1965, and "Challenge to Youth," 29 Jun 1966.

SECTION VII

PUBLIC WORKS POLICIES

These papers relate to public works policies and the governmental processes necessary to plan policies. Particular attention is given to World War II planning for the post-World War II era.

Folders 430-432. Public Works Policies, General and Historical, 1941-1982.

Memo of 24 Jul 1942 from the Executive Office of the President on public works planning for the postwar period; memo of 15 Dec 1942 on wartime programming of facilities and construction; address by Robert W. Hartley, Chief, Federal Program Section, National Resources Planning Board, "Post-War Planning for Construction," given at the Annual Meeting of the Associated Equipment Distributors, 12 Jan 1943; address by Frank W. Herring, Assistant Director, National Resources Planning Board, "Preparing for Public Works in the Post-War Period," given before the American Society of Civil Engineers, 19 May 1943; report, "Federal Public Works Program for Fiscal Year 1947," Nov 1945; statement of Maynard M. Hufschmidt, Director, Harvard Water Program, before the House Committee on Public Works, 2 Apr 1962; David C. Major and John S. Major, "On Historical Inference: New Analytical Techniques and the Study of Public Works in Pre-Modern China," Nov 1974.

Folder 433. Essays in Public Works History, 1975-1982.

The Relevancy of Public Works History: The 1930s--A Case Study, 22 Sep 1975; Edward C. Carter II, Benjamin Henry Latrobe and Public Works: Professionalism, Private Interest, and Public Policy in the Age of Jefferson, Dec 1976; Larry D. Lankton, The "Practicable" Engineer: John B. Jervis and the Old Croton Aqueduct, Sep 1977; Joel A. Tarr, Transportation Innovation and Changing Spatial Patterns in Pittsburgh, 1850-1934, Apr 1978; Jeffrey K. Stine, Nelson P. Lewis and the City Efficient: The Municipal Engineer in City Planning during the Progressive Era, Apr 1981; Carol

Hoffecker, Water and Sewage Works in Wilmington, Delaware, 1810-1910, Jul 1981; Eugene P. Moehring, Public Works and Urban History: Recent Trends and New Directions, Aug 1982.

Folder 434. Public Works Oral Histories, 1981-1983.

An Interview With Samuel A. Greeley, Jun 1981; An Interview With Samuel S. Baxter, May 1982; An Interview With Edward J. Cleary, Dec 1983.

Folder 435. Public Works Planning, 1941-1943.

Memoranda from the National Resources Planning Board.

Folder 436. NRPB Memorandum on S. 1617, 1941.

Folder 437. First Expansion of NRPB Memorandum on S. 1617.

Folder 438. Various Drafts of NRPB Memorandum on S. 1617.

Folder 439. Revision of Expansion of NRPB Memorandum on S. 1617.

Folder 440. Final Revision of Expanded NRPB Memorandum on S. 1617.

Folder 441. Senate Hearings on S. 1617, 1941.

Folder 442. Drafts of H.R. 5638, 1941-1942.

Companion bill to S. 1617 on post-World War II planning.

Folder 443. Report of House Labor Committee on H.R. 5638, 1941-1942.

Folder 444. Public Works and NRPB Relief Study, 1941.

SECTION VIII

PRESSURE GROUPS

This portion of the Maass Papers pertains to the involvement of pressure groups in the development of environmental policy. It includes much of Dr. Maass' correspondence and more clearly reveals his political activities. Groups for which he has collected papers are the Democratic Party, Republican Party, Finletter Group, Harriman for President Committee, Kennedy for President Committee, Americans for Democratic Action, League of Women Voters, U.S. Chamber of Commerce, and the AFL-CIO.

General

Folder 445. Democratic Party, 1952-1975.

Personal correspondence, including that with Arthur Schlesinger, Jr., Leland Olds, Richard L. Neuberger, Estes Kefauver, and Adlai E. Stevenson's office. Also an address by Schlesinger to the New York Committee for the Democratic Advisory Council, "The Shape of National Politics to Come," ca. 1960.

Folders 446-447. Finletter Group, 1953-1954.

Primarily public policy reports and personal correspondence. Correspondents include Adlai E. Stevenson. Reports include "Full Employment in an Expanding Economy," 16 Dec 1953; Chester Bowles, "The Full Employment of American Workers, Capital and Machines," 31 Dec 1953; Paul Nitze, "National Defense Policy," 26 Feb 1954; Nitze, "U.S. Policy Toward Indo-China," 6 Apr 1954; Seymour E. Harris, "An Economist Examines the Promises and Performances of the Republican Administration," 14 Jun 1954; Maass, "Republicans and Republican Power," 1954. Undated material: Edward Miller,

"The Latin American Policy of the Eisenhower Administration"; "The 1954 Tax Program," statement of Alvin H. Hansen at hearings before the Senate Finance Committee; Seymour E. Harris, "The Interest Rate Controversy"; George Ball, "Wire-Tapping."

Folder 448. Harriman for President, 1952.

A few letters, one from Averell Harriman and another from Arthur Schlesinger, Jr. Draft by Maass of a natural resources platform for Harriman's campaign.

Folder 449. Kennedy for President, 1960.

Personal correspondence, including a letter from John F. Kennedy. Address by Kennedy in the Senate, 18 Jan; remarks by Kennedy to California Democratic Council Convention, 12 Feb; statements by Marion Clawson on "Recreation" and "Public Lands"; Horace Gray, "Essential Features of a National Policy for the Development of Water Resources," 1 Aug.

Folder 450. Republican Party, 1964.

Folder 451. Americans for Democratic Action, 1950-1953.

Correspondence and handwritten personal notes. Includes a paper by Dr. Maass, "Natural Resources," 15 Feb 1950, and a "Statement of Principles" of the Massachusetts chapter of the Americans for Democratic Action.

Folder 452. League of Women Voters, 1949-1957.

Correspondence between Dr. Maass and representatives of the league. Also a publication of the league, On the Water Front, May 1957.

Folder 453. Maass Speech Before the League of Women Voters, 18 Jan 1952.

Folders 454-455. U.S. Chamber of Commerce, 1944-1959.

Policy Declarations on Natural Resources, 1949-1950, 1952-1959; Referendum No. 81 on the Report of the Natural

Resources Dept. Committee on National Water Resource Policies, 1944; Our Water Resources: How Should They Be Developed?, 1953; Industry Reports on Natural Resources, Dec 1954; Conservation Is Good Business, 1956; National Water and Power Policy: A Digest of the Water Policy Conference, Jan 1956.

Folder 456. AFL-CIO, 1970-1979.

Labor Looks at Congress, 1969, 1975, 1978.

Folder 457. Public Power Organizations, 1950-1977.

Folder 458. National Conservation Organizations (Non-Water), 1953-1977.

Statement of purpose from the Forest Conservation Society of America, 1954.

Water Interests

Folder 459. Water Pressure Groups, General, 1940-1969.

Port of Mobile News, Mobile, Alabama, 1949.

Folder 460. Maass, "The Civil Functions of the Corps of Engineers," 12 Nov 1940.

Folder 461. National and Regional Water and Land Organizations' Coordinating Committee, 1947-1954.

Folder 462. National Water Conservation Conference, 1947-1948.

Folder 463. U.S. Flood Control Federation, 1936.

Folder 464. National Reclamation Association, National Water Resources Association, 1938-1969.

Folder 465. National Rivers and Harbors Congress, 1939-1964.

Folder 466. National Rivers and Harbors Congress, Proceedings, 1928-1939.

Folder 467. National Rivers and Harbors Congress, Personal Notes.

Folder 468. Mississippi Valley Association, 1940-1971.

Folder 469. Mississippi Valley Association, Publications, 1940-1948.

Resources and Opportunities of the Mid-Continent Area of the United States, Nov 1947.

Folder 470. Atlantic Deeper Waterways Association, 1939-1947.

Folder 471. Atlantic Deeper Waterways Association, Proceedings of Annual Conventions, 1931-1935.

Folder 472. Atlantic Deeper Waterways Association, Personal Notes.

Folder 473. Tri-State Authority, 1940-1949.

Folder 474. Ohio Valley Flood Control and Conservation Congress, 1940-1951.

Address by David Clark Warner, water conservation engineer, before the Conference on Conservation, Nutrition, and Health, 26 Jun 1949; recollections of Warner on the beginnings of the organization, 1 Nov 1949; The Ohio Engineer, Vol. 9, No. 1 (Jan 1951).

Folder 475. Intercoastal Canal Association of Louisiana and Texas, 1937-1944.

The Intercoastal Canal From the Mississippi to the Rio Grande, n.d.

Folder 476. Inland Empire Waterways Association, 1940.

SECTION IX

ECONOMIC POLITICS

This section is concerned with the relation of budgeting and appropriations to public policy in areas other than conservation. Subjects include the Planning-Programming-Budgeting System, highways and transportation, and area redevelopment.

Folders 477-478. Economic Politics, General, 1955-1972.

Richard E. Dawson and James A. Robinson, "Inter-Party Competition, Economic Variables, and Welfare Policies in the American States," The Journal of Politics, Vol. 2 (1963); Harvey Leibenstein, "Long-Run Welfare Criteria," Resources for the Future, 1965; Seymour Martin Lipset, "Voting Behavior," 1967; Yehezkel Dror, "Policy Analysts: A New Professional Role in Government," Public Administration Review, Vol. 27, No. 3 (Sep 1967); Albert O. Hirschman, "The Principle of the Hiding Hand," The Public Interest, No. 6 (Winter 1967); Duncan Foley, "Resource Allocation and the Public Sector," n.d.; T. Gustavson, "Comparisons Between Hobbesian and Machiavellian Psychology," n.d.; "The Paradox of Man's Perfectibility in Rousseau's Second Discourse," author unknown, n.d.

Folder 479. James Buchanan and Gordon Tullock, "The Calculus of Consent," 1962.

Folder 480. Robert Dorfman, "General Equilibrium with Public Goods," Jun 1966.

Folder 481. Hearings Before the House Committee on Public Works, Red Tape, Jun 1971.

Folder 482. Terry N. Clark, "Structural-Functionalism, Exchange Theory, and the New Political Economy," 1972.

Folder 483. Raymond A. Bauer, "The Study of Policy Formation," n.d.

Folder 484. Jerome Rothenberg, "A Model of Economic and Political Decision Making," n.d.

Folder 485. Economic Politics, Seminars, 1966-1968.

Information regarding seminars conducted at Harvard's John F. Kennedy School of Government. Includes the following papers: James M. Buchanan, "What Goods Should Be Public?"; Richard A. Musgrave, "Provision for Social Goods"; Paul A. Samuelson, "Pure Theory of Public Expenditure and Taxation."

Folder 486. Rent Subsidies, 1965-1966.

Folder 487. Economic Politics, Personal Notes.

Folder 488. Planning-Programming-Budgeting System (PPBS)--General, 1965-1970.

Memos from the Executive Office of the President; address by William M. Capron, Assistant Director, Bureau of the Budget, before the Symposium on Cost Effectiveness Analysis, Institute for Defense Analysis, 15 Jun 1965. See also Folders 260-264 on p. 43.

Folder 489. Planning-Programming-Budgeting, Dept. of HEW, Feb 1968.

Folder 490. Highways and Transportation, General, 1962-1972.

Folder 491. Leon Monroe Cole, "Optimal Capacity Planning and Staging Decisions Under Uncertainty," Jun 1966.

Doctoral Dissertation. Morris Hill, "A Method for Evaluating Alternative Plans: The Goals-Achievement Matrix Applied to Transportation Plans," 1966. Document too bulky for a folder.

Folders 492-493. Area Redevelopment, 1961-1963.

SECTION X
CONSERVATION COURSES

This section contains material for two courses taught by Dr. Maass: a 1958 course on Government and the Conservation of Natural Resources, and a 1959 seminar on Conservation Planning. The folders are arranged by topic within each course. In most cases, the research material and the lecture notes for each topic are in separate folders. In some cases the research material comprises several folders, with the last folder for each topic containing the actual lecture notes. Research material ranges from newspaper clippings and newsletters to scholarly publications and government reports. If a document is large enough to warrant a separate folder, it is listed individually. Whenever there are a number of publications dealing with a specific topic, they are grouped in a separate folder also.

Government and the Conservation of Natural Resources

Folder 494. Importance of Natural Resources.

Folder 495. Importance of Natural Resources--Notes.

Folder 496. Planning.

Folder 497. Planning--Notes.

Folder 498. Regional Factors in Planning and the Drainage Basin.

Folder 499. Regional Factors in Planning and the Drainage Basin--Notes.

Folder 500. Essentials of a Sound Water Plan.

Folder 501. Essentials of a Sound Water Plan--Notes.

Folder 502. Flood Control.

Folder 503. Flood Control--Notes.

Folder 504. Navigation--Notes.

Folder 505. Power.

Folder 506. Maass, "National Power Policy," 5 Apr 1954.

Folder 507. Henry P. Caulfield, Jr., "Federal Electric Power Policy," Sep 1958.

Folder 508. Power--Notes.

Folder 509. Irrigation.

Folder 510. "Water Resources Activities of the Bureau of Reclamation," 18 May 1948.

Folder 511. Irrigation--Notes.

Folder 512. Drainage.

Folder 513. Robert W. Harrison, "Swampland Reclamation in Louisiana, 1849-1879," 1951.

- Folder 514. Wetlands of the U.S., Dept. of Interior, 1956.
- Folder 515. Drainage--Notes.
- Folder 516. Fish and Wildlife.
- Folder 517. Fish and Wildlife--Notes.
- Folder 518. Administration of Multiple-Purpose Water Developments.
- Folder 519. Maass, "Administering the CVP," California Law Review, Vol. 38 (1950).
- Folder 520. Maass, "Congress and Water Resources," American Political Science Review, Vol. 44, No. 3 (Sep 1950).
- Folder 521. Guthrie S. Birkhead, Jr., "The Role of the States in Basin Water Development," 18 Aug 1958.
- Folder 522. Administration of Multiple-Purpose Water Developments--Notes.
- Folders 523-524. Atomic Power.
- Folder 525. Preliminary Report on Financial Protection Against Atomic Hazards, Mar 1956.
- Folder 526. Atomic Power--Notes.
- Folder 527. Land Productivity.
- Folder 528. Agriculture's Capacity to Produce, USDA, Jun 1952.
- Folder 529. Agricultural Land Resources, USDA, Jun 1955.

- Folder 530. Major Uses of Land in the U.S., USDA, Jan 1957.
- Folder 531. A 50-Year Look Ahead at U.S. Agriculture," USDA, Jun 1959.
- Folder 532. Land Productivity--Notes.
- Folder 533. Soil Conservation.
- Folder 534. Soil Conservation--USDA Publications, 1952-1958.
Report of the Chief of the Soil Conservation Service, 1952;
Agricultural Conservation Program National Bulletin, 1954,
Aug 1953; General Information for County ASC Committeemen,
Aug 1955; How to Get Help Under the Watershed Protection and
Flood Prevention Act, Dec 1955; Progress in State Legis-
lation Relating to the Watershed Protection and Flood
Prevention Act, Jan 1956; Watershed Program Evaluation: Six
Mile Creek, Arkansas, Jul 1957; Credit in Use and
Conservation of Agricultural Resources, Oct 1957; The
Conservation Reserve Program of the Soil Bank, Mar 1958.
- Folder 535. Maass, "Protecting Nature's Reservoir," Public Policy, Vol. 5 (1954).
- Folder 536. Soil Conservation--Notes.
- Folder 537. Fertilizers.
- Folder 538. Fertilizers--Notes.
- Folder 539. Administration of Agricultural Programs.
- Folder 540. Administration of Agricultural Programs--Notes.
- Folder 541. Forestry.
- Folder 542. Forestry--USDA Publications, 1951-1959.

A Preliminary Appraisal of New Hampshire's Forest-Yield Tax, Nov 1951; Report of the Chief of the Forest Service, 1956; Program for the National Forests, Mar 1959.

Folder 543. President's Materials Policy Commission, 19 Mar 1952.

Folder 544. Forestry--Notes.

Folder 545. Grazing Lands.

Folder 546. Grazing Lands--Notes.

Folder 547. Administration of Public Land Resources.

Folder 548. Administration of Public Land Resources--Notes.

Folder 549. Neo-Malthusianism--Notes.

Folder 550. Minerals.

Folder 551. "Report on the Problem of Mining Claims on the National Forests," Jan 1953.

Folder 552. Minerals--Notes.

Folder 553. Oil.

Folder 554. Oil--Notes.

Folder 555. Tidelands.

Folder 556. Tidelands--Notes.

Folder 557. Conclusions.

Conservation Planning

- Folder 558. Introduction to Conservation Planning Seminar.
- Folder 559. Definition.
- Folder 560. Definition--Notes.
- Folder 561. Process.
- Folder 562. Process--Publications, 1948-1961.
- 50th Annual Report of the Michigan Academy of Science, Arts, and Letters, 1948; R.G. Tugwell and E.C. Banfield, "Governmental Planning at Mid-Century," The Journal of Politics, Vol. 13 (1951); Catherine Bauer, "Social Questions in Housing and Community Planning," Journal of Social Issues, Vol. 7, Nos. 1-2 (1951); Charles M. Haar, "The Master Plan: An Impermanent Constitution," Law and Contemporary Problems (Summer 1955); Dr. Yehezkel Dror, A General Model of Planning, 1960; Calendar of the Four-Month Course in Comprehensive Planning, Institute of Social Studies, The Hague, Netherlands, 1961; Dror, "Dimensions of Planning," n.d.
- Folder 563. Process--Notes.
- Folder 564. Communications.
- Folder 565. Communications--Notes.
- Folder 566. Bureaucratic Responsibility.
- Folder 567. Arlington County Citizens Commission on Ethics in Government, 15 Aug 1952.
- Folder 568. W.A. Carlson, "Codes of Ethics for Public Administrators," 1953.

Folder 569. Massachusetts State Planning Board, 1953.

Folder 570. Bibliography, Boston Metro District: Physical Growth and Governmental Development, Jun 1946.

Folder 571. Code of Ethics for State Officers and Employees, Texas Legislative Council, Dec 1956.

Folder 572. New Jersey Report on Conflicts of Interest, 31 Dec 1957.

Folder 573. Congressional Reports, 1959-1960.

Folder 574. Executive Office of the President, 1952-1961.

Folder 575. "Organizing for National Security," Senate Committee on Governmental Operations, 4 Dec 1959.

Folder 576. Bureaucratic Responsibility--Notes.

Folder 577. Legislative Oversight.

Folder 578. Maass and Laurence I. Radway, "Gauging Administrative Responsibility," Public Administration Review, Vol. 9, No. 3 (Summer 1949).

Folder 579. Legislative Veto--Valley Authority Legislation, 1954.

Folder 580. Legislative Oversight--Notes.

Folder 581. Advisory Boards.

Folder 582. Grazing Advisory Boards, 1952-1963.

Folder 583. Grazing Advisory Boards--Student Papers, 1955-1956.

- Folder 584. Mineral Advisory Committees, 1955-1961.
- Folder 585. Advisory Board--Notes.
- Folder 586. Regional Factors.
- Folder 587. Regional Factors--Notes.
- Folder 588. Techniques: Time Factor--Basic Data.
- Folder 589. Techniques: Time Factor--Basic Data--Notes.
- Folder 590. Organization for Planning.
- Folder 591. Report on the Maryland State Planning Commission,
Nov 1958.
- Folder 592. Organization for Planning--Notes.
- Folder 593. British East African Ground Nuts Scheme.
- Folder 594. Vincent E. Starzinger, "The East African Groundnuts
Fiasco," May 1954.
- Folder 595. Puerto Rico.
- Folder 596. Conservation Courses--Miscellaneous.

SECTION XI
PUBLICATIONS AND RESEARCH

This section includes a copy of Dr. Maass' doctoral dissertation, "Water Resources Development by the U.S. Army Engineers"; reviews and correspondence regarding his books, Muddy Waters, Area and Power, and Design of Water-Resource Systems; galley proofs for . . . And the Desert Shall Rejoice; and reviews and correspondence regarding other published works.

Folder 597. Publications--General, 1949-1962.

Correspondence with publishing companies and varied acquaintances regarding Dr. Maass' works.

Folder 598. 1948 Doctoral Dissertation--Summary and Preface.

Folder 599. 1948 Dissertation--Chapter 1, "Gauging Administrative Responsibility."

Folder 600. 1948 Dissertation--Chapter 2, "Civil Functions of the Corps of Engineers."

Folder 601. 1948 Dissertation--Chapter 3, "Adjustment of Group Interests."

Folder 602. 1948 Dissertation--Chapter 4, "Responsibility to the Executive and Legislative Establishments."

Folders 603-604. 1948 Dissertation--Chapter 5, "Responsibility to Profession."

- Folder 605. 1948 Dissertation--Chapter 6, "An Evaluation."
- Folder 606. 1948 Dissertation--Appendix.
- Folder 607. Muddy Waters, 1949-1984.
- Folder 608. "Gauging Administrative Responsibility," Public Administration Review, Vol. 9, No. 3 (Summer 1949).
- Folder 609. "Administering the CVP," California Law Review, Vol. 38 (1950).
- Folder 610. "Congress and Water Resources," American Political Science Review, Vol. 44, No. 3 (Sep 1950).
- Folder 611. "In Accord With the Program of the President? An Essay on Staffing the Presidency," Public Policy, Vol. 4 (1953).
- Folders 612-613. Area and Power: A Theory of Local Government, 1959.
- Folder 614. Area and Power--"Regional Science: Nature and Scope," Regional Science Association, 17 Dec 1955.
- Folder 615. Area and Power--Related Papers, 1962-1973.
- Folders 616-617. Design of Water-Resource Systems, 1962.
- Folder 618. A Simulation of Irrigation Systems, USDA, 1971.
- Folder 619. . . . And the Desert Shall Rejoice, 1977--Introduction.
- Folder 620. Desert--Chapter 2, "The Huerta of Valencia."
- Folder 621. Desert--Chapter 3, "The Huertas of Murcia and Orihuela."

- Folder 622. Desert--Chapter 4, "The Huerta of Alicante."
- Folder 623. Desert--Chapter 5, "Kings River: Land Settlement and Distribution of Water to Farms."
- Folder 624. Desert--Chapter 6, "Kings River: Dividing the River."
- Folder 625. Desert--Chapter 7, "Irrigation Systems in North-eastern Colorado."
- Folder 626. Desert--Chapter 8, "Utah Valley."
- Folder 627. Desert--Conclusion.
- Folder 628. Desert--Chapter Notes.
- Folder 629. Desert--Index.
- Folder 630. Simulation of Irrigation Systems, Report to the PRC, Vol. I, Jul 1983.
- Folder 631. Mathematical Model for Conjunctive Use of Surface and Groundwater, Report to the PRC, Vol. II, Jul 1983.
- Folder 632. Research--Regional Authorities Legislation, 1936-1952.
- Folder 632A. Article Reprint--"U.S. Prosecution of State and Local Officials for Political Corruption: Is the Bureaucracy Out of Control in a High-Stakes Operation Involving the Constitutional System?," The Journal of Federalism, Vol. 17 (Summer 1987).

SECTION XII

AREA FILES

The focus of these records is regional conservation, divided into the following regions: New England, Middle Atlantic, Southeast, Great Lakes-St. Lawrence, Mississippi-Missouri-Ohio Basins, Ohio River, Tennessee, Upper Mississippi-Red River of the North, Missouri River Basin, Arkansas-White and Red River Basins, Lower Mississippi, Rio Grande and the Gulf, Colorado Basin, Great Basin, Central and Southern Pacific, Central Valley, Pacific Northwest, Alaska, Hawaii, Puerto Rico, and foreign countries. Newsletters, newspaper clippings, correspondence, and news releases originating in government departments are predominant. The folder descriptions bring attention to significant publications, essays and papers, reports, congressional hearings, and other documents. Longer publications and essays are filed in separate folders immediately following the topic with which they are associated.

New England

Folder 633. New England--Economic and Industrial Development, 1941-1968.

Seymour E. Harris, "New England's Decline in the American Economy," Harvard Business Review (Spring 1947); Quarterly Inventory of Economic Research on New England, compiled by

the Research Dept. Library, Federal Reserve Bank of Boston, Jan 1950.

Folders 634-635. Water Resources--General, 1940-1974.

New England Water Power--Myth or Fact? (1949 newspaper series); Howard M. Turner, "Water Power in New England," paper presented to the New England Council, 10 Jun 1949; transcript of radio broadcast, "More Power to You," 22 Jan 1950; Richard Martin, "Conservation and Development of the Water Resources of Connecticut and New England," 25 Jul 1950.

Folder 636. "Water Resources of the Nashua River Basin," 1953.

Folder 637. Lawrence E. Newcomb, "Resources of the New England-New York Region," 16 May 1955.

Folder 638. Papers on Flood Control, 1956-1958.

Folder 639. Papers on Irrigation, 1955.

Folder 640. Northeast Water Crisis, 1965-1975.

Report to the President, "Drought in Northeastern United States," Water Resources Council, 21 Jul 1965; Northeast Water Crisis Hearings before the Senate Committee on Interior and Insular Affairs, 8 Sep 1965.

Folder 641. Corps of Engineers--North Atlantic Framework Study--Purpose and Scope, 1966.

Folder 642. Framework Study--Outlines, 1967-1968.

Folder 643. Framework Study--Memos and Correspondence, 1966.

Folder 644. Framework Study--Memos and Correspondence, 1967.

Folder 645. Framework Study--Memos and Correspondence, 1968.

Folder 646. Framework Study--Memos and Correspondence, 1969-1970.

Folder 647. Framework Study--Memos and Correspondence, 1971-1973.

Folder 648. Framework Study--Minutes, 1966-1967.

Folders 649-650. Framework Study--Minutes, 1968.

Folder 651. Framework Study--Minutes, 1969-1972.

Folder 652. Framework Study--Reports and Preliminary Studies, 1967.

Folder 653. Framework Study--Reports and Preliminary Studies, 1968.

Folder 654. Framework Study--Reports and Preliminary Studies, 1969-1971.

Folder 655. Framework Study--Related Papers.

Folders 656-657. Fossil and Atomic Fuels, 1950-1979.

Federal Power Commission Opinion No. 208 in the matters of Northeastern Gas Transmission Company and the Algonquin Gas Transmission Company, 1 Mar 1951.

Folder 658. Frank A. Rhuland, "New England Natural Gas Controversy," 2 Apr 1954.

Folder 659. Forest and Land Resources, 1949-1960.

Charles D. Hyson, Agricultural Marketing Areas in New England, Harvard Studies in Marketing Farm Products, Sep 1951; M.S. Parsons, "Farm Aspects of Conservation Development in New England-New York," USDA, Sep 1953.

Folder 660. Fisheries, 1950-1968.

Folder 661. Recreation--General, 1959-1966.

Interim Report of the Boston National Historic Sites Commission Pertaining to the Lexington-Concord Battle Road, 1959; David C. Harrison, "Policies Plan for an International Exposition Celebrating the 1975 National Bicentennial in Boston," 15 Mar 1966.

Folders 662-663. Recreation--Cape Cod National Park, 1951-1960.

Cape Cod National Seashore: A Proposal, Dept. of Interior, 1959; "Suggestions Relating to the Zoning Provisions of a Bill to Provide for the Establishment of Cape Cod National Seashore Park," Harvard Law School, 1 Dec 1959.

Folders 664-665. Maine River Basins--General, 1949-1981.

New England Business Review, Sep and Nov 1964, dealing with development of power projects in Maine; the same, Feb and Apr 1966, on New England power development.

Folder 666. Annual Reports--Central Maine Power Company, 1949-1950.

Folder 667. Passamaquoddy Tidal Power Project, 1950-1963.

Folder 668. Maine River Basins--Student Papers, 1956.

Folder 669. Merrimack River Basin--Student Paper, n.d.

Folder 670. Connecticut River Basin, 1949-1976.

New England Business Review, May and Jul 1967, dealing with resource planning for the Connecticut River Valley; Charles H.W. Foster, "The Northfield Mountain Pumped Storage Project Counterpoint to Con Ed," Harvard Forest Paper, 1970.

Folder 671. "The Connecticut River Basin," President's Temporary Water Resources Policy Commission, May 1950.

Folder 672. Connecticut River Basin--Student Paper, 1949.

Folder 673. Connecticut River Basin--Student Papers, n.d.

Folder 674. Charles River Basin, 1964-1972.

Newspaper series on Charles River, Boston Globe, Sep 1964.

Folder 675. Boston Harbor, 1973.

Middle Atlantic

Folder 676. Middle Atlantic--Economic and Industrial Development, 1941-1969.

Folder 677. Water Resources--General, 1955-1980.

Folder 678. Fuel Resources and Energy Requirements, 1959-1976.

Folder 679. Forest and Land Resources, 1949-1968.

USDA publications: The Wood-Supply Situation in New York State, Oct 1949; Forest Statistics for Western Maryland, Jun 1952; Forest Statistics for Central Maryland, 1953; Forest Statistics for the Eastern Shore of Maryland, 1954; Dept. of Interior National Seashore Proposal, Assateague, 1965.

Folder 680. Hudson River Basin, 1949-1976.

Richard H. Mead, "Water Pollution Control in New York City: How to Obtain Clean Waters, or the Perils of Planning Before Analysis," Oct 1971.

Folder 681. Hudson River Basin--Student Paper, n.d.

Folders 682-683. Delaware River Basin, 1949-1980.

Report on Utilization of Waters of the Delaware River Basin,
Interstate Commission on Delaware River Basin, Sep 1950.

Folder 684. Delaware River Basin--Student Papers, 1949.

Folder 685. Delaware River Basin--Student Paper, 1951.

Folder 686. Delaware River Basin--Student Papers, 1953-1954.

Folder 687. Delaware River Basin--Student Papers, 1955-1956.

Folder 688. Delaware River Basin--Papers by Maynard M. Hufschmidt, 1956-1957.

Folder 689. Susquehanna River Basin, 1950-1969.

"Susquehanna River Basin Study Plan: A Review of Alternatives," Corps of Engineers, 30 Nov 1966.

Folder 690. Susquehanna River Basin--Student Paper, n.d.

Folders 691-692. Chesapeake Bay, 1963-1984.

Folders 693-694. Potomac River Basin, 1955-1972.

Ellery R. Fosdick, The Potomac River Estuary as a Supplemental Source of Municipal Water for the Washington Metropolitan Region, ca. 1967.

Folder 695. Henry P. Caulfield, "Hydroelectric Power and Development of the Potomac River Basin," 12 Jan 1959.

Folder 696. Ellery R. Fosdick, "Methods of Keeping Pollution Out of the North Branch Potomac River," Jul 1967.

Folder 697. Roanoke River Basin, 1949-1976.

Southeast

Folder 698. Economic and Resource Development, 1950-1970.

Port of Mobile News and Shippers Guide, Dec 1950; L.A. Reuss, "Florida's Land Resources and Land Use," Univ. of Florida, Nov 1954.

Folder 699. L.A. Reuss, "Recent Trends in Number, Size, Type, and Value of Farms in Florida," Jun 1956.

Folder 700. Water Resources, 1943-1976.

Folder 701. Water Resources--Drainage Basin Maps, n.d.

Folder 702. "The Alabama-Coosa River Basin," Dept. of Interior, Jul 1950.

Folder 703. Cross-Florida Barge Canal Project, 1958-1970.

Cross-Florida Barge Canal Project: Preliminary Analysis of the Restudy Report of the Corps of Engineers, 17 Dec 1958;
Charles A. Welsh, The Economic Prospects of Cross-Florida Barge Canal Project, Mar 1959.

Folder 704. Cross-Florida Barge Canal Project--Congressional Hearings, 1937-1970.

Folder 705. Forest Resources, ca. 1954.

Folder 706. Florida Flood Control, 1954-1971.

Facts About F.C.D., Central and Southern Florida Flood Control District, Jun 1955;
Report to the Bureau of the Budget 1955, Central and Southern Florida Flood Control District.

Folder 707. Summary of Florida Flood Control Project, 31 Aug 1950.

Folder 708. Florida Flood Control--Drainage Basin Maps, n.d.

Great Lakes-St. Lawrence

Folder 709. General, 1962-1977.

Folder 710. Drainage Basin Maps, n.d.

Folder 711. Great Lakes Basin Commission Annual Report, 1968.

Folder 712. Great Lakes Basin Commission Communicator, 1970-1972.

Folder 713. Great Lakes--Student Paper, 1953.

Folder 714. St. Lawrence Seaway and Port Development, 1948-1981.

Folder 715. St. Lawrence Seaway--Student Paper, 1949.

Folder 716. St. Lawrence Seaway--Student Papers, 1951-1958.

Folders 717-718. St. Lawrence and Niagara Power, 1949-1981.

Folder 719. St. Lawrence and Niagara Power--Publications, ca. 1952-1979.

Leland Olds and Benton Stong, A Look at Niagara and St. Lawrence Power, ca. 1952; David L. Nass, Public Policy and Public Works: Niagara Falls Redevelopment as a Case Study, Public Works Historical Society, Feb 1979.

Folder 720. Water Diversions and Lake Levels, 1948-1983.

Folder 721. Paul A. Hoffman, "The Politics of Lake Diversion, 1957," Apr 1958.

Folder 722. St. Lawrence--Recreation, 1955-1959.

Mississippi-Missouri-Ohio Basins

Folder 723. Mississippi-Missouri-Ohio Basins Flood Control, 1937-1949.

Ohio River

Folder 724. Economic and Industrial Development, 1955-1976.

Folder 725. Donald N. Rothblatt--Papers on the Appalachian Experience, 1970.

Folder 726. Water Resources, 1949-1971.

Folder 727. Drainage Basin Maps, n.d.

Folder 728. Navigation, 1954-1979.

William J. Hull, "Fifty Years on the Ohio," Water Spectrum (Fall 1979).

Folder 729. Pollution, 1952-1979.

ORSANCO in Review, 1966, 1976, 1978, 1979.

Folder 730. Corps of Engineers' Appalachia Study, 1965-1970.

Folder 731. Corps of Engineers' Appalachia Study--Drafts of 19 May 1966 Letter to Col. John C. Lee, Jr.

Folder 732. Forest and Land Resources, 1952-1966.

Tennessee

Folder 733. Economic and Industrial Development, 1947-1971.

Folders 734-735. TVA--General, 1941-1980.

Bernard L. Foy, "The TVA Program: A Bibliography of Selected Readings," 1 Jul 1950; Norman Wengert, "TVA--Symbol and Reality," The Journal of Politics, Vol. 13 (1951); Wengert, "Antecedents of TVA: The Legislative History of Muscle Shoals," Agricultural History, Vol. 26 (Oct 1952); Working With Areas of Special Need: With Examples from the Beech River Watershed, TVA, Jun 1953; A Report to the President of the United States on the Tennessee Valley Authority from the Governor of Tennessee, 8 Oct 1953; Customer Service Policies and Practices, TVA Power Distributors in Eastern District, 1962; President Kennedy, "TVA 30th Anniversary Address," 18 May 1963.

Folder 736. TVA Consultants Panel, 1951-1952.

Folder 737. TVA Budget Plan, 1952-1953.

Folder 738. TVA Case Studies, 1953.

Folder 739. "Is the TVA Favored in Federal Expenditures?," TVA Government and Economics Staff, Apr 1955.

Folder 740. TVA--Water Resources and Flood Control, 1939-1978.

Charles J. McCarthy, "Land Acquisition Policies and Proceedings in TVA--A Study of the Role of Land Acquisition in a Regional Agency," Ohio State Law Journal, Vol. 10, No. 1 (Winter 1949).

Folder 741. TVA--Navigation, 1951-1976.

Folder 742. TVA Power--General, 1945-1982.

Folder 743. TVA Power--Case Study--Harvard School of Public Health, 1976.

Folder 744. TVA Power--Public v. Private Control, 1947-1963.

Eugene A. Stephenson, "TVA: Profit or Loss?," Foundation for Economic Education, n.d.

Folder 745. TVA Power--Self-Financing, 1949-1979.

Folder 746. TVA Power--Dixon-Yates Contract, 1953-1963.

Folder 747. TVA Power--Dixon-Yates Contract--Interim Report to Senate Judiciary Committee, n.d.

Folder 748. TVA Power--Dixon-Yates Contract--Atomic Energy Commission News Releases, 1954-1955.

Folder 749. TVA--Agriculture and Forestry, 1943-1956.

Folders 750-751. Cumberland River Basin, 1940-1968.

Folder 752. Cumberland River Basin--Student Papers, 1951-1952.

Upper Mississippi-Red River of the North

Folder 753. Upper Mississippi--Economic and Industrial Development, 1963-1973.

Folder 754. Upper Mississippi--Water Resources, 1948-1977.

Folder 755. Upper Mississippi--Drainage Basin Maps, n.d.

Folder 756. Upper Mississippi--Student Paper, n.d.

Folder 757. Upper Mississippi--Forest and Land Problems--Student Papers, 1950-1951.

Folder 758. Upper Mississippi--Recreation, 1960-1971.

Folder 759. Red River of the North, 1959-1972.

Souris-Red-Rainy River Basins Commission Annual Report, 1969.

Folder 760. Red River of the North--Student Paper, 1949.

Missouri River Basin

Folder 761. Economic and Industrial Development, 1949-1950.

Victor Roterus and Sterling March, "Recent Industrial Growth in the Missouri Basin States," 20 Apr 1950.

Folders 762-763. Water Resources, 1938-1978.

Pick-Sloan Missouri Basin Program, Front Range Unit: Status Report, Dept. of Interior, Oct 1977.

Folder 764. Drainage Basin Maps, n.d.

Folder 765. "Local Effects of the Wappapello Reservoir, Wayne County, MO," Feb 1950.

Folder 766. Water Resources--Student Paper, 1955.

Folder 767. Power Resources and Requirements, 1949-1975.

Folder 768. Power Resources and Requirements--Student Paper, 1955.

Folder 769. Power Marketing Criteria, 1953-1974.

Folder 770. Missouri River Basin-Southwest Basins--Linkage, 1961-1967.

Folder 771. Navigation, 1960-1963.

Folder 772. Navigation--Student Paper, n.d.

Folder 773. Irrigation, 1940-1975.

Folder 774. Recreation, 1955.

Folder 775. Watershed and Land Resources, 1948-1968.

Folder 776. Mineral Resources, 1949-1973.

Folder 777. Organization and Politics, 1944-1972.

The Big Missouri: Hope of Our West, Public Affairs Institute, Jun 1948.

Folder 778. Missouri Basin Interagency Committee--Minutes, 1945-1947.

Folder 779. Missouri Basin Study--Council of State Governments, 1950-1952.

Folder 780. Charles M. Hardin, "The Role of Government in the Missouri Valley," 28 Dec 1952.

Folder 781. Organization and Politics--Student Paper, 1958.

Folder 782. Missouri-Souris, 1955-1962.

Folder 783. Platte River, 1950.

Folder 784. Kansas River, 1951-1957.

Folder 785. Kansas River--Student Papers, 1954.

Book. The Kansas Basin: Pilot Study of a Watershed, Univ. of Kansas Press, Sep 1956.

Document too bulky for a folder.

Arkansas-White and Red River Basins

Folder 786. Economic and Industrial Development, 1969.

Folder 787. Water Resources, 1950-1975.

Folder 788. Water Resources--Student Paper, 1949.

Folder 789. Interior Dept. Programs for Oklahoma, Dec 1949.

Folder 790. McClellan-Kerr Arkansas River Multiple Purpose Project, Corps of Engineers, Mar 1977.

Folder 791. Drainage Basin Maps, n.d.

Folder 792. Power, 1947-1976.

Folder 793. Irrigation and Municipal Water Supplies, 1948-1977.

Folder 794. Recreation, 1949.

Folder 795. Forest and Land Resources, 1950-1956.

Lower Mississippi

Folder 796. Water Resources, 1929-1980.

Folder 797. Water Resources--Drainage Basin Maps, n.d.

Folder 798. Navigation, 1954-1979.

Mississippi River Navigation, Mississippi River Commission and Army Engineer Division, Lower Mississippi Valley, n.d.

Folder 799. Flood Control, 1950-1951.

Robert W. Harrison, "Flood Control in the Yazoo-Mississippi Delta," The Southern Economic Journal, Vol. 17, No. 2 (Oct 1950); Harrison, "The New 'Mississippi Problem'," Land Economics, Vol. 27, No. 4 (Nov 1951).

Folders 800-801. Land Reclamation and Drainage--General, 1938-1958.

Robert W. Harrison, Drainage Reclamations in the Bartholomew-Boeuf-Tensas Basin of Arkansas and Louisiana, Univ. of Arkansas, Apr 1948; Harrison, "Louisiana's State-Sponsored Drainage Program," The Southern Economic Journal, Vol. 14, No. 4 (Apr 1948).

Folder 802. Mermentau and Teches-Vermilion Projects, Louisiana--Committee Meeting, 22 Sep 1943.

Folder 803. Land Reclamation and Drainage--Census Records, 1950.

Folder 804. Land Reclamation and Drainage--Student Paper, 1956.

Rio Grande and the Gulf

Folder 805. Economic and Industrial Development, 1950-1977.

Folder 806. Water Resources, 1949-1972.

Folder 807. Interior Dept. Activities in Texas, May 1949.

Folder 808. Drainage Basin Maps, n.d.

Folder 809. Power, 1950-1963.

Folder 810. Irrigation, 1948-1959.

Irrigated Agriculture in Texas, Texas Agricultural Experiment Station, Sep 1950; Cost of Water for Irrigation on the High Plains, Texas Agricultural Experiment Station, Feb 1952.

Folder 811. Land Resources, 1952-1964.

Folder 812. Upper Rio Grande, 1948-1956.

Folder 813. Upper Rio Grande--Student Papers, 1952.

Folder 814. Pecos and Lower Rio Grande, 1946-1966.

Colorado Basin

Folder 815. Economic and Industrial Development, 1950-1978.

Folder 816. Water Resources, 1952-1978.

Colorado's Ground-Water Problems, Colorado State University Experiment Station, Jun 1960; Raymond L. Anderson, "Transfer Mechanisms Used to Acquire Water for Growing Municipalities in Colorado," paper prepared for Western Farm Association Meeting, 24 Jul 1978.

Folder 817. Power Marketing, 1958-1973.

Folder 818. Land Resources, 1968-1979.

Folder 819. Recreation, 1953-1968.

Folder 820. Big Thompson Project, 1946-1977.

Folder 821. Big Thompson Project--Student Paper, n.d.

Folder 822. Frying Pan-Arkansas Project, 1951-1965.

Folders 823-824. Upper Colorado, 1946-1980.

Folder 825. "Upper Colorado River Basin: Publications of Government Agencies," Jul 1957.

Folder 826. Upper Colorado--Student Paper, n.d.

Folders 827-829. Lower Colorado, 1945-1978.

Jerome W. Milliman, "Economic Problems of the Metropolitan Water District of Southern California," n.d.

Folder 830. Hoover Dam, 1966.

The Story of Hoover Dam, Dept. of Interior.

Folder 831. Lower Colorado--Student Papers, 1952-1955.

Great Basin

Folder 832. Economic and Industrial Development, 1964-1965.

Folder 833. Water Resources, 1946-1979.

Report on the Ability of Irrigation Water Users on the Weber Basin Project, Utah, USDA, 20 Jun 1952.

Folder 834. Water Resources--Student Papers, 1950-1955.

Central and Southern Pacific

Folder 835. Water Resources, 1947-1979.

Folder 836. Donald E. Pearson, "The Battle of Whittier Narrows," Oct 1952.

Folder 837. Water Resources--Student Paper, n.d.

Folder 838. Water Resources--Drainage Basin Maps, n.d.

Folder 839. Land Resources, 1966-1968.

Central Valley

Folder 840. Economic and Industrial Development, 1950-1966.

Economic Survey of California, California State Chamber of Commerce, 1950.

Folders 841-842. Water Resources--General, 1941-1980.

Paul S. Taylor, "Building the CVP," The Pacific Spectator, Vol. 5, No. 4 (Autumn 1951); Is There Water for California?, Bank of America, Sep 1955.

Folder 843. Water Resources--Western Water, 1977-1984.

Folder 844. Water Resources--Undated Material.

Folder 845. Water Resources--Student Paper, 1958.

Folder 846. Water Resources--Acreage Limitation.

Folder 847. Water Resources--Power, 1941-1978.

Memorandum, "Necessity of an Auxiliary Steam-Electric Plant as a Unit of the Central Valley Project," Water Project Authority of the State of California, 15 May 1941.

Folder 848. Water Resources--Salinity Control, 1949-1982.

Folder 849. Land Resources, 1968.

Folder 850. Trinity River, 1949-1980.

Folder 851. Feather River, 1950-1970.

Folder 852. American River, 1951-1977.

Folder 853. San Luis Project--General, 1951-1967.

Folder 854. San Luis Project--Correspondence--Attorney General and Dept. of Interior, Dec 1961.

Folder 855. Kings River--General, 1939-1981.

Folder 856. Kings River--FPC Decision, 1948-1949.

Folder 857. Paul S. Taylor, "Whose Dam Is Pine Flat?," The Pacific Spectator, n.d.

Folders 858-859. Kings River--Personal Notes.

Folder 860. Kings River--1977 Drought.

Pacific Northwest

Folder 861. Economic and Industrial Development, 1941-1965.

Folder 862. Economic and Industrial Development--Student Paper, n.d.

Folder 863. Water Resources, 1948-1981.

Folder 864. Water Resources--Student Papers, 1949.

Folder 865. Irrigation.

Folders 866-867. Hydropower, 1949-1980.

New Power in the Making, Portland General Electric Co., 1948; "Annual Financial Report," City of Tacoma, WA, 31 Dec 1952; An Analysis of Portland General Electric Company, Nov 1954; Feasibility of Proposed Interconnection, Idaho Power Company and Bonneville Power Administration, Nov 1954.

Folder 868. Hydropower--Student Paper, 1955.

Folder 869. Interties With California, 1951-1978.

Folder 870. Intertie Contracts--Staff Memos--House Committee on Government Operations, Jan-Mar 1967.

Folder 871. Intertie Contracts--Staff Memo--House Committee on Government Operations, 24 Jul 1967.

Folder 872. Fisheries, 1949-1977.

Folders 873-874. Fisheries--Student Papers, 1951-1953, 1956-1957.

Folder 875. Agriculture and Forestry Resources, 1950-1951.

Folder 876. Agriculture and Forestry Resources--Student Paper, n.d.

- Folder 877. Fuel Resources, 1949-1981.
- Folder 878. Recreation, 1960-1970.
- Folder 879. Administration--General, 1962-1982.
- Folder 880. Administration--CVA, 1949-1972.
- Folder 881. Administration--Compacts and Interagency Committees, 1945-1967.
- Folder 882. Administration--Bonneville Power Corporation and Basin Account, 1957-1959.
- Folder 883. State Administration, 1951-1982.
- Folder 884. Puget Sound, 1954-1978.
- Folder 885. Lower Columbia and Willamette, 1949-1977.
- Folder 886. Middle Columbia, 1942-1975.
- Folder 887. Central Washington, 1948-1978.
- Folder 888. Clark Fork-Clearwater, 1948-1976.
- Folders 889-890. Upper and Central Snake, 1940-1979.
- Folders 891-892. Hells Canyon--General, 1944-1975.
- Roy F. Bessey, "The Politics of Hells Canyon," paper presented at Western Political Science Association, 30-31 Mar 1956; remarks of Sen. Wayne Morse, "High Hells Canyon: The Dam That Won't Die," 25 Feb 1958.
- Folder 893. Hells Canyon--FPC Decision, 1955.

Folder 894. Hells Canyon--FPC Decision in D.C. Court of Appeals, 1955-1956.

Folder 895. Hells Canyon--Publications, 1956.

Ron Ross, "Hells Canyon: Not 'Who?' But 'What?'," Jan 1956; The Hells Canyon Issue in Simple Terms, n.d.; Benton J. Stong and Leland Olds, A Look Into Hells Canyon, Public Affairs Institute, n.d.

Folder 896. Hells Canyon--Undated Material.

Folder 897. Hells Canyon--Student Papers, 1953-1955.

Folder 898. Pacific Northwest-Southwest Oregon Basins, 1950-1966.

Folder 899. Upper Columbia and Canada, 1951-1977.

Folder 900. "Legal Aspects of the Use of Systems of International Waters," Dept. of State Memo, Apr 1958.

Folder 901. Upper Columbia and Canada--Student Paper, 1958.

Alaska--Hawaii--Puerto Rico

Folder 902. Continental Water Plans, 1965-1972.

Folders 903-904. Alaska--General, 1948-1978.

Water Resources of Alaska, Senate Select Committee on National Water Resources, Jan 1960; 1968 Annual Report on the Alaska Power Administration, Dept. of Interior.

Folder 905. Water Powers--Southeast Alaska, FPC and USDA, 1947.

Folder 906. Agricultural Problems of Alaska, USDA, Dec 1949.

Folder 907. A Six-Year Integrated Program for Alaska, 1950-1956,
Dept. of Interior, 1949.

Folder 908. Alaska--Student Papers, 1951.

Folder 909. Alaska--Map, 1947.

Folder 910. Hawaii, 1950-1963.

Water Resources of Hawaii, Senate Select Committee on
National Water Resources, Jan 1960.

Folder 911. Puerto Rico, 1942-1965.

Foreign Countries

Folder 912. Other Foreign Nations--General, 1949-1980.

Documents regarding environmental issues in various foreign countries, grouped together because of the limited number of documents for each country. Included are Afghanistan, Australia, Belgium, Chile, China, Dominican Republic, Egypt, Great Britain, Haiti, India, Iran, Israel, Italy, Jordan, Mexico, Pakistan, Rumania, Soviet Union, Sudan, Vietnam, and Yugoslavia.

Folder 913. Other Foreign Nations--Student Paper, 1949.

"Scottish Hydro-Electric Scheme."

Folder 914. Canada, 1950-1976.

Folder 915. Canada--Student Paper, 1956.

Folder 916. Japan, "Outline of Multi-Purpose Land Development Program," 20 Apr 1950.

Folder 917. The Sudan Gezira Board, 1953.

- Folder 918.** Australia--River Basin Research, 1962.
- Folder 919.** Yehezkel Dror, "National Planning in the Netherlands," Jan 1963.
- Folder 920.** Yehezkel Dror, "National Planning in Israel," May 1963.
- Folder 921.** Allen V. Kneese, "Consultant's Report on Israel's Water Policy," Aug 1976.
- Folder 922.** The U.S.-U.S.S.R. Joint Committee on Cooperation in Environmental Protection, 1979.

CHRONOLOGY

- 1917 Born in Baltimore, MD, 24 July
- 1939 Received A.B. degree, Johns Hopkins University
- 1939-1940 Worked for the National Institute of Public Affairs in the Division of Administrative Management of the Bureau of the Budget
- 1940 Received Harvard Fellowship at the Graduate School of Public Administration
- 1941 Received M.P.A. degree, Harvard University
- 1941-1942 Research technician for the National Resources Planning Board
- 1942-1946 Served in the U.S. Navy
- 1946 Budget analyst, Dept. of the Navy
- Resumed studies at Harvard
- 1948 Appointed to the First Hoover Commission as a water resources analyst for the Natural Resources Task Force
- 1948-1954 Nontenured professor of political science, Harvard University
- 1949 Received Ph.D. degree, political science, Harvard University
- Published "Gauging Administrative Responsibility," Public Administration Review, Vol. 9, No. 3
- Published "The Lobby That Can't Be Licked: Congress and the Army Engineers," with Robert De Roos, Harper's (Aug)
- 1949-1950 Director, survey unit conservation and development, Connecticut "Little Hoover" Commission
- 1950 Published "Administering the CVP," California Law Review, Vol. 38

- Published "Congress and Water Resources," American Political Science Review, Vol. 44, No. 3
- 1950-1951 Director, survey unit conservation agencies, Massachusetts "Little Hoover" Commission
- 1951 Published Muddy Waters: The Army Engineers and the Nation's Rivers (Harvard University Press)
- Presented paper on the President's Water Resources Policy Commission to the American Political Science Association entitled "An Evaluation of the Commission's Recommendations for Administering Water Development"
- Visiting professor of political science, University of California at Berkeley
- 1951-1952 Consultant to the President's Materials Policy Commission
- 1952 Social Science Research Council Study, "Gaps in Our Knowledge of Resources Development and Conservation"
- 1953 Published "In Accord With the Program of the President? An Essay on Staffing the Presidency," Public Policy, Vol. 4
- 1954 Published "Protecting Nature's Reservoir," Public Policy, Vol. 5
- Appointed tenured professor of government, Harvard University
- 1954-1959 Secretary of the Graduate School of Public Administration, Harvard University
- 1955 Guggenheim fellow
- Visiting professor of political science, University of Puerto Rico
- 1955-1965 Director, Harvard Water Program
- 1959 Published Area and Power: A Theory of Local Government, with Ylvisaker, Wood, Willbern, Dupre, Hoffman, and Huntington (The Free Press)

- 1960 Published "Anglo-American Water Law: Who Appropriated the Riparian Doctrine?" with Hiller B. Zobel, Public Policy, Vol. 10
- 1960-1961 Fulbright research fellow, Spain
- 1961 Faculty research fellow, Social Sciences Research Council
- 1962 Published Design of Water-Resource Systems: New Techniques for Relating Economic Objectives, Engineering Analysis, and Governmental Planning, with Hufschmidt, Dorfman, Thomas, Marglin, and Fair (Harvard University Press and Macmillan)
- 1963-1967 Chairman of Dept. of Government, Harvard University
- 1965 Report to U.S. Army Corps of Engineers on "Testing New Techniques for Water Resources Planning," with Hufschmidt and others
- 1966 Published "Benefit-Cost Analysis: Its Relevance to Public Investment Decisions," Quarterly Journal of Economics, Vol. 80
- 1968 Published "Conservation of Natural Resources: Social and Political Aspects," in International Encyclopedia of the Social Sciences
- 1970 Published "Public Investment Planning in the United States: Analysis and Critique," Public Policy, Vol. 18, No. 2
- 1971 Consultant to the Bureau of Reclamation
- 1977 Published . . . And the Desert Shall Rejoice: Conflict, Growth, and Justice in Arid Environments, with Raymond L. Anderson (MIT Press)
- Published A Simulation of Irrigation Systems, with Raymond L. Anderson (USDA, Technical Bulletin No. 1431, 3d rev. ed.)
- 1983 Published Congress and the Common Good (Basic Books)

1983

Coauthored "Report to the People's Republic of China. Vol. I: Simulation of Irrigation Systems; Vol. II: A Mathematical Model for the Conjunctive Use of Surface and Ground Water," with Anderson, Fiering, and Yuan

WORKS BY DR. ARTHUR MAASS

The following is a list of many of Dr. Maass' works, both published and unpublished, found in the collection. They are in alphabetical order with the appropriate folder numbers on the left. In some cases, the completed work is not included, but material relating to it is.

Folder

- 519,
609 "Administering the CVP," California Law Review, Vol. 38 (1950).
- 153 "Allocation of Costs for Local Flood Control Protective Works," with Paul G. Haaga, May 1941.
- 619-
629 . . . And the Desert Shall Rejoice: Conflict, Growth, and Justice in Arid Environments, with Raymond L. Anderson, MIT Press, 1977.
- 283-
285 "Anglo-American Water Law: Who Appropriated the Riparian Doctrine?" with Hiller B. Zobel, Public Policy, Vol. 10 (1960).
- 612-
615 Ed., Area and Power: A Theory of Local Government, with Ylvisaker, Wood, Willbern, Dupre, Hoffman, and Huntington, The Free Press, 1959. (Related documents only)
- 94-
98 "Benefit-Cost Analysis: Its Relevance to Public Investment Decisions," Quarterly Journal of Economics, Vol. 80 (May 1966).
- 460 "The Civil Functions of the Corps of Engineers," 12 Nov 1940.

Folder

- 451 "Natural Resources," 15 Feb 1950.
- 111 "The Objectives of Water Policy and Related Institutional Problems," with David C. Major, 15 Dec 1969.
- 314,
535 "Protecting Nature's Reservoir," Public Policy, Vol. 5 (1954).
- 99-
102 "Public Investment Planning in the United States: Analysis and Critique," Public Policy, Vol. 18, No. 2 (Spring 1970).
- 446 "Republicans and Republican Power," 1954.
- 618 A Simulation of Irrigation Systems, with Raymond L. Anderson, USDA, 1971.
- 630 Simulation of Irrigation Systems, with Raymond L. Anderson, Report to the PRC, Vol. I, 1983.
- 453 Speech--League of Women Voters, 18 Jan 1952.
- 110 Speech--National Waterways Conference, 18 Oct 1968.
- 109 Speech--Watershed Congress, 19 Jun 1967.
- 598-
606 "Water Resources Development by the U.S. Army Engineers," Doctoral Dissertation, 1948.

These works are not found in the Arthur Maass Papers:

Congress and the Common Good. Basic Books, 1983.

The Kings River Project. Inter-university Case Program, 1977.

The Kings River Project in the Basin of the Great Central Valley.
Committee on Public Administration Cases, 1949. 2d edition,
1950.

Philosophiae Doctores in Scientia Politica, MDCCCLXXV-
MDCCCCLXVII. Harvard Graduate Society for Advanced Study and
Research, 1968.

GLOSSARY

AEC	Atomic Energy Commission
AFL-CIO	American Federation of Labor-Congress of Industrial Organizations
ASCE	American Society of Civil Engineers
CVA	Columbia Valley Authority
CVP	Central Valley Project
ECIC	Electrical Consumers Information Committee
FIARBC	Federal Inter-Agency River Basin Committee
FPC	Federal Power Commission
NRPB	National Resources Planning Board
PMPC	President's Materials Policy Commission
PWRPC	President's Water Resources Policy Commission
RFF	Resources for the Future
TVA	Tennessee Valley Authority
USDA	United States Department of Agriculture