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## South Dakota Water Resources Institute Records

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# South Dakota Water Resources Institute Records

Finding Aid

South Dakota State University Archives and Special Collections  
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## Collection Summary

### *Identifier*

UA 5.11

### *Title*

College of Agriculture and Biological Sciences, South Dakota Water Resources Institute Records

### *Creator*

South Dakota Water Resources Institute, College of Agriculture and Biological Sciences, South Dakota State University

### *Dates*

1951-1993

### *Extent*

4.63 linear feet -- 4 records center boxes, 1 document case, 1 small document case, photographs

### *Language*

English

### *Repository*

South Dakota State University Archives and Special Collections, Hilton M. Briggs Library, Brookings, South Dakota.

### *Access note*

This collection is open to researchers without restrictions. The materials in the Archives do not circulate and may be used in-house only.

### *Preferred Citation*

*Name of item.* College of Agriculture and Biological Sciences, South Dakota Water Resources Institute Records. UA 5.11. South Dakota State University Archives and Special Collections, Hilton M. Briggs Library, Brookings, South Dakota.

### *Abstract*

The South Dakota Water Resources Institute (WRI) at South Dakota State University provides leadership on evolving water concerns and problems being faced by South Dakota citizens through research, educational opportunities for students and professionals, and community outreach.

This collection is composed of departmental records of the Institute, as well as collected reports dealing with the Missouri River Basin Project.

## **Historical Note**

The South Dakota Water Resources Institute was conceptualized in 1964 through the Water Resources Act and began services on October 8, 1954, as an administrative unit of South Dakota State University. In September, 1990, the Institute was placed under the administrative authority of the College of Agriculture and Biological Sciences. The mission of the Institute is to provide the leadership in coordinating the research and training at the University and other affiliated educational institutions and agencies across the state in the broad area of water resources. It administers funds received from the U.S. Department of Interior, as made available through the Water Resources Research Act of 1984 and from the state of South Dakota. Funds received through these sources targeted for research are directed toward solving state, regional, and national water problems. Graduate research training, technology transfer, and information transfer are services, which are provided through the Institute.

The Water Resources Institute also houses the Water Quality Laboratory. This laboratory serves the needs of the people of the state by providing analytical services for determination of inorganic constituents (and some pesticides) in water.

## **Arrangement**

This collection is arranged into two series:

Series 1. Departmental records

Series 2. Missouri River Basin Project collected reports

## **Contents Note**

### *Series 1. Departmental Records.*

This series is composed of material dealing with irrigation research conducted by the institute in collaboration with the South Dakota Agricultural Experiment Station. Included is a scrapbook detailing how research is conducted at the Irrigation Research Farm near Redfield, South Dakota and an annual report on research in soil management and irrigation in South Dakota. Also included is a general information sheet requesting an operating budget for the Water Resources Research Institute during the 1973 fiscal year and a pamphlet detailing analytical services available through the Institute. Folders are arranged in alphabetical order.

### *Series 2. Missouri River Basin Project Collected Reports.*

The Missouri River Basin Project collected reports are composed mainly of reports collected by the Water Resources Research Institute. These reports deal mainly with the Missouri River Basin Project. Material is arranged in alphabetical order by report title.

## **Key Words**

Big Sioux River (S.D.)

Irrigation -- South Dakota

Irrigation -- South Dakota -- Research

Missouri River Basin Project -- Cheyenne Division

Missouri River Basin Project -- Little White Unit

Missouri River Basin Project -- Oahe Unit

Missouri River Basin Project -- Pine Ridge Unit

Pick-Sloan Missouri Basin Program (U.S.)

South Dakota Water Resources Institute

Springs --Black Hills (S.D. and Wyo.)

Water quality -- Standards -- South Dakota

Water resources development -- South Dakota

## Administrative Information

### *Conditions Governing Access*

This collection is open to researchers without restrictions. The materials in the Archives do not circulate and may be used in-house only.

Researchers conducting extensive research are asked to make an advance appointment to access archival material. Please call or e-mail prior to visiting the collection and indicate as much detail as possible about a particular topic and intended use.

South Dakota State University supports access to the materials, published and unpublished, in its collections. Nonetheless, access to some items may be restricted as a result of their fragile condition or by contractual agreements with donors.

### *Copyright note*

Copyright restrictions apply in different ways to different materials. Many of the documents and other historical materials in the Archives are in the public domain and may be reproduced and used in any way. There are other materials in the Archive carrying a copyright interest and must be used according to the provisions of Title 17 of the U.S. Code. The Archive issues a warning concerning copyright restrictions to every researcher who requests copies of documents. Although the copyright law is under constant redefinition in the courts, it is ultimately the responsibility of the researcher to properly use copyrighted material.

### *Arranged and Described by*

Crystal J. Gamradt, 1999 March 11, additions made 2008 August 7.

## Container List

<b>Series</b>	<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
1. Departmental records	1	1	Analytical services (pamphlet)	1976
1. Departmental records	1	2	Investigation in soil management and irrigation in South Dakota - Annual report	1954
1. Departmental records	1	3	Irrigation: Research-Education-Extension	1967 circa
1. Departmental records	1	4	Large Springs in the Black Hills, South Dakota and	1973

<b>Series</b>	<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
			Wyoming, Report of Investigations no. 107	
1. Departmental records	1	5	Operating budget request (general information sheet)	1973
2. Missouri River Basin Project collected reports	2	2	Appraisal Report on Eastern South Dakota Basins, Pick-Sloan Missouri Basin Program South Dakota	1973, revised 1975
2. Missouri River Basin Project collected reports	2	3	Aquifer Irrigation - Integrated Irrigation-Dryland Farms, Oahe Area, South Dakota	1954
2. Missouri River Basin Project collected reports	2	4	Aquifer Irrigation - Integrated Irrigation-Dryland Farms, Oahe Area, South Dakota	1955
2. Missouri River Basin Project collected reports	2	5	Aquifer Irrigation - Integrated Irrigation-Dryland Farms, Oahe Area, South Dakota	1956
2. Missouri River Basin Project collected reports	2	6	Critical Water Issues in the Missouri River Basin. Missouri River Basin Governors Conference	1976 August
2. Missouri River Basin Project collected reports	2	7	Definite Plan Report on Tower, Greenwood, and Yankton Units, South Dakota Pumping Division, South Dakota Missouri River Basin Project	1963, revised 1964
2. Missouri River Basin Project collected reports	2	8	Definite Plan Report on Tower, Greenwood, and Yankton Units, South Dakota Pumping Division, South Dakota Missouri River Basin Project. Appendix A-General Information, Appendix B-Hydrology	1963, revised 1964
2. Missouri River Basin Project collected reports	2	9	Definite Plan Report on Tower, Greenwood, and Yankton Units, South Dakota Pumping Division, South Dakota Missouri River Basin Project. Appendix C-Project Lands	1963, revised 1964
2. Missouri River Basin Project	2	10	Definite Plan Report on Tower, Greenwood, and	1963, revised 1964

<b>Series</b>	<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
collected reports			Yankton Units, South Dakota Pumping Division, South Dakota Missouri River Basin Project. Appendix D- Agricultural Economy ; Appendix E-Economic and Financial Analysis	
2. Missouri River Basin Project collected reports	2	11	Definite Plan Report on Tower, Greenwood, and Yankton Units, South Dakota Pumping Division, South Dakota Missouri River Basin Project. Appendix H- Operation, Maintenance, and Replacement ; Appendix J- Power ; Appendix K- Cooperative Agency Reports	1963, revised 1964
2. Missouri River Basin Project collected reports	2	12	Economic Impact of Missouri River Mainstem Dams in South Dakota, Research report	1987
2. Missouri River Basin Project collected reports	2	13	Final environmental statement. Initial state, Oahe Unit, Pick-Sloan Missouri Basin Program, South Dakota	1973
2. Missouri River Basin Project collected reports	2	14	Framework Plan for the Missouri River Basin	undated
2. Missouri River Basin Project collected reports	2	15	Impact of Imposing a Water Quality Standard on a Live Stream	1971
2. Missouri River Basin Project collected reports	2	1	Impact of Water Quality Standards on the Development of the Big Sioux River Near Sioux Falls, South Dakota	1971
2. Missouri River Basin Project collected reports	3	1	Interim Information Report, Oahe Unit. James Division, South Dakota, Missouri River Basin Project.	1956
2. Missouri River Basin Project collected reports	3	2	Interim Information Report, Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix A-	1956

<b>Series</b>	<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
			General Information ; Appendix B-Alternate Plant ; Appendix C-Hydrology	
2. Missouri River Basin Project collected reports	3	3	Interim Information Report, Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix D-Project Lands ; Appendix E-Irrigation	1956
2. Missouri River Basin Project collected reports	3	4	Interim Information Report, Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix F-Drainage	1956
2. Missouri River Basin Project collected reports	3	5	Interim Information Report, Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix G-Designs and Estimates	1956
2. Missouri River Basin Project collected reports	3	6	Interim Information Report, Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix H-Operation, Maintenance, and Replacement ; Appendix J-Municipal-Industrial Water and Pollution Control ; Appendix K-Power ; Appendix L-Wildlife and Recreation ; Appendix M-Economic Analysis ; Appendix N-Economic Impacts	1956 June
2. Missouri River Basin Project collected reports	3	7	Investigation of Channel Degradation. 1985 Update. Missouri River Gavins Point Dam to Platte River Confluence	1985
2. Missouri River Basin Project collected reports	3	8	Lake Andes - Wagner Irrigation Development Feasibility report. Volume 1 - Main Report	1977
2. Missouri River Basin Project collected reports	3	9	Lake Andes - Wagner Irrigation Development Feasibility report. Volume 2 -	1977



<b>Series</b>	<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
			Appendix-A Project Setting ; Appendix B-Project Lands ; Appendix C-Water Supply	
2. Missouri River Basin Project collected reports	3	10	Lake Andes - Wagner Irrigation Development Feasibility report. Volume 3 - Appendix D-Geotechnical ; Appendix E-Irrigation System ; Appendix F-Drainage System ; Appendix G-Environmental Assessment	1977
2. Missouri River Basin Project collected reports	3	11	Lake Andes - Wagner Irrigation Development Feasibility report. Volume 4 - Appendix H-Operations and Maintenance ; Appendix I-Cost Estimates ; Appendix J-Project Economics and Financing	1977
2. Missouri River Basin Project collected reports	3	12	Listings of Missouri River Basin Investigation Reports and Selected References for Other Sources pertaining to Missouri Basin Indian Reservations. Report no. 108.	1961
2. Missouri River Basin Project collected reports	3	13	Missouri River Basin Development Program	1952
2. Missouri River Basin Project collected reports	3	14	Missouri River Basin State Water Resources Planning Seminar, summary proceedings.	1983
2. Missouri River Basin Project collected reports	3	15	Missouri River Cost Recovery Authority, Final Report to Governor George S. Mickelson	1989
2. Missouri River Basin Project collected reports	3	16	National Water Quality Assessment Program (NAWQA). American Water Resources Association Monograph Series no. 19.	1993
2. Missouri River Basin Project collected reports	3	17	Oglala Irrigation Project Cattle Enterprise, Pine Ridge Reservation, South Dakota, A Missouri River Basin Study	1969

<b>Series</b>	<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
			(report no. 179)	
2. Missouri River Basin Project collected reports	4	1	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project.	1965
2. Missouri River Basin Project collected reports	5	9	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Addenda to the supplemental report, Initial Stage-190,000 acres.	1965
2. Missouri River Basin Project collected reports	4	2	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix A-General Information ; Appendix B-Alternative Plans	1965
2. Missouri River Basin Project collected reports	4	3	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix C-Hydrology	1965
2. Missouri River Basin Project collected reports	4	4	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix D-Project Lands	1965
2. Missouri River Basin Project collected reports	4	5	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix E-Agricultural Economy	1965
2. Missouri River Basin Project collected reports	4	6	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix F-Drainage	1960
2. Missouri River Basin Project collected reports	4	7	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix F-Drainage	1965
2. Missouri River Basin Project collected reports	4	8	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix G-Geology	1965
2. Missouri River Basin Project collected reports	4	9	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project.	1965

<b>Series</b>	<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
			Appendix H-Materials	
2. Missouri River Basin Project collected reports	5	1	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix J-Designs and Estimates	1960
2. Missouri River Basin Project collected reports	5	2	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix J-Designs and Estimates	1965
2. Missouri River Basin Project collected reports	5	3	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix K-Operation, Maintenance, and Replacement	1965
2. Missouri River Basin Project collected reports	5	4	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix L-Municipal and Industrial Water Supply ; Appendix M-Power	1965
2. Missouri River Basin Project collected reports	5	5	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix N-Cooperating Agency Reports	1965
2. Missouri River Basin Project collected reports	5	6	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix P-Economic and Financial Analysis	1965
2. Missouri River Basin Project collected reports	5	7	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Appendix Q-Economic and social impacts	1965
2. Missouri River Basin Project collected reports	5	8	Report of Oahe Unit. James Division, South Dakota, Missouri River Basin Project. Supplemental Report, Initial State-190,000 acres.	1965
2. Missouri River	6	1	Report on Adequacy of Flows	1951

<b>Series</b>	<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
Basin Project collected reports			in the Missouri River. Missouri Basin Inter-Agency Committee	
2. Missouri River Basin Project collected reports	6	2	Report on Cheyenne Division, Wyoming-South Dakota Missouri River Basin Project	1964
2. Missouri River Basin Project collected reports	6	3	Report on Pine Ridge Unit, South Dakota-Nebraska	1967
2. Missouri River Basin Project collected reports	6	4	Report on Soil-and-Water Relationship of the Little White Unit. White Division-South Dakota Missouri River Basin Project	1965
2. Missouri River Basin Project collected reports	6	5	Report on South Dakota Pumping Division, South Dakota Missouri River Basin Project, Appendix A-General Description ; Appendix B-Hydrology ; Appendix C-Division Lands ; Appendix D-Agricultural Economy	1959
2. Missouri River Basin Project collected reports	6	6	Safety Evaluation of Existing Dams. A Water Resources Technical Publication	1980
2. Missouri River Basin Project collected reports	6	7	Technical Paper Surface Water Supply Including Instream Water Use. Missouri Basin States Association.	1982