Montana Department
of
Fish, Wildlife & Parks

MILK RIVER

MARIAS RIVER

BIBLIOGRAPHY

Prepared by
Carol Frasier
Fisheries Division Library

February 1992

Included in the Milk/Marias Bibliography are the following sections:

Fish, Wildlife and Parks, Fisheries Division, DJ Reports

Fisheries Division Library holdings on Milk/Marias

Montana State Library, Milk River holdings

Montana State Library, Missouri River Basin holdings

Dept. of Natural Resources, Water Library holdings on Milk/Marias

Montana State Library, Marias River holdings

Montana Historical Society Library, Milk River holdings

Montana Historical Society Library, Newspaper holdings on Milk/Marias

Montana Historical Society Library, Archive holdings

Montana Historical Society Library, Yellowstone River Pumping Units holdings

Dept. of Natural Resources, Curt Martin's Library holdings

Bureau of Reclamation, Billings, library holdings on Milk River

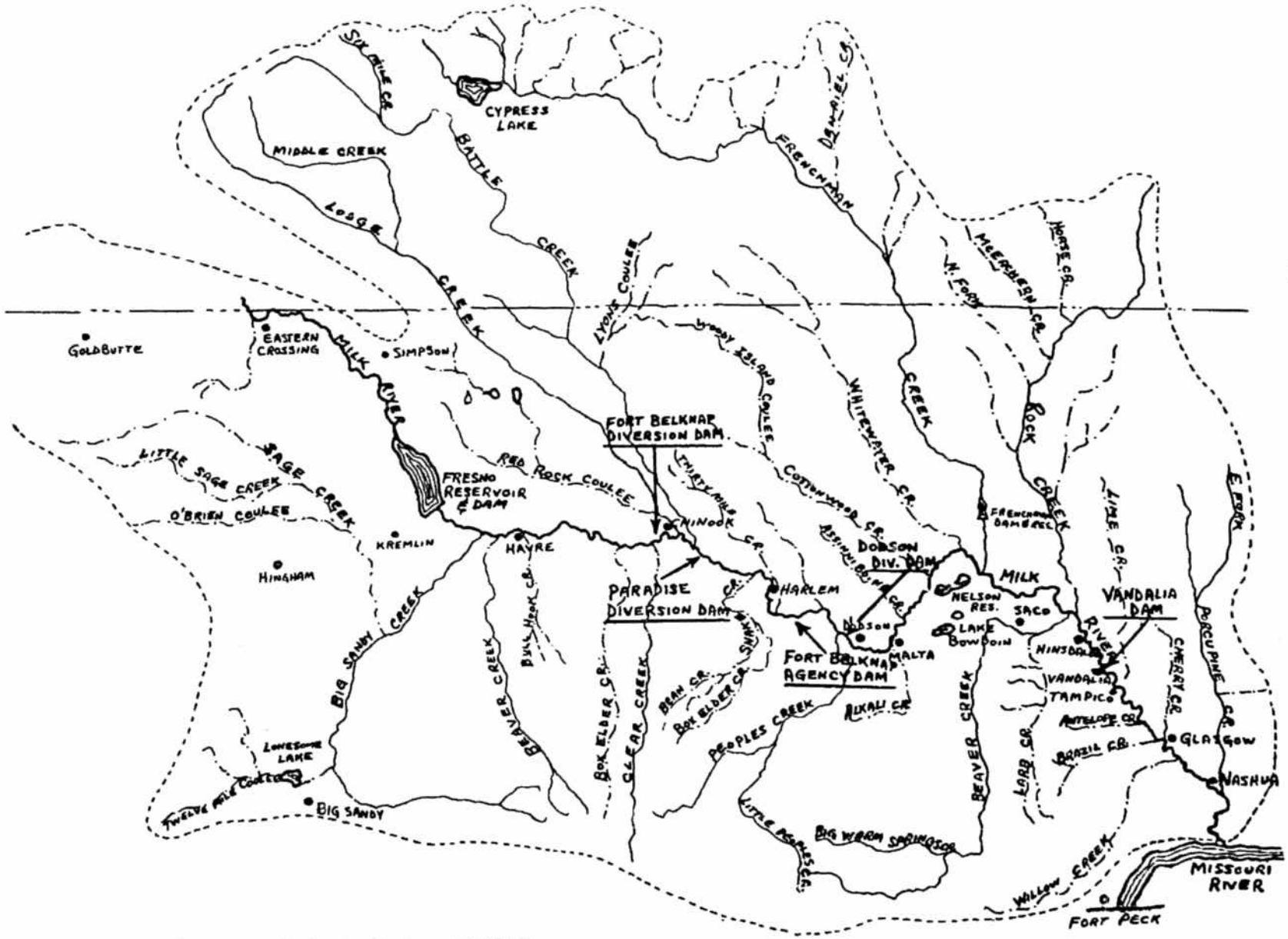


Fig. 1 - Milk River Basin in Eastern Montana.

Montana Department of Fish, Wildlife & Parks

Fisheries Library
Fisheries Division
Montana Department of Fish, Wildlife and Parks
1420 E. Sixth Avenue
Helena, MT 59620

(406)444-3187

Contact Person: Carol Frasier

Most of the holdings in this library are also at the Montana State Library.

LIST OF DJ REPORTS THAT INCLUDE DATA ON MILK RIVER
FISHERIES DIVISION
MONTANA DEPARTMENT OF FISH, WILDLIFE AND PARKS

Copies of these reports may be obtained from the Montana State Library, Fisheries Division Library or Fish and Wildlife Reference Service:

F-11-R-1, Job I-a
F-11-R-2, Job I-a
F-11-R-5, Job I-b, and I-c
F-11-R-6, Job I-b
F-11-R-8, Job I-d, and I-e
F-11-R-11, Job I
F-11-R-23, Job I-a
F-11-R-25, Job I-a
F-11-R-26, Job I-a
F-11-R-27, Job 1-a
F-11-R-28, Job I-a
F-11-R-29, Job I-a
F-11-R-30, Job I-a
F-11-R-34, Job I-a

F-5-R-10, Job IV

MONTANA DEPARTMENT OF FISH, WILDLIFE AND PARKS
FISHERIES DIVISION

JOB PROGRESS REPORT

State of Montana

Project No. F-11-R-28 Name Northeast Montana Fisheries Study

Job No. I-a Title Inventory and Survey of Waters of the Project Area

Period Covered April 1, 1980 through March 31, 1981

ABSTRACT

Larval fish sampling was conducted in the Milk River, but evaluation of results was difficult due to abnormally low spring flows. Size data obtained from rainbow trout in Bear Paw Lake showed a significant increase in growth following rehab in 1979; however, large numbers of suckers were taken. Mark-and-recapture population estimates for trout were made in three sections of Beaver Creek. A lack of older, adult trout was found in some areas and a lack of Age 0+ fish in Section 02 will be investigated in detail in the future. Aquatic insect populations were sampled on four streams in the Bear Paw Mountains. Gill netting in Fort Peck Reservoir demonstrated an increase in walleye. A total of 71 seine hauls were made in Fort Peck Reservoir to evaluate young-of-the-year and forage fish abundance. The catch for young walleye and northern pike in 1980 was extremely poor. Gill netting conducted at 10 sites in the dredge cut/tailwater area below Fort Peck Dam showed a significant increase in walleye and sauger which was apparently due to the migration of rainbow smelt into the area. Box Elder Reservoir was sampled with frame traps. Eight trap-days produced a catch of 15,069 yellow perch, 194 white suckers and 4 northern pike. Gill netting conducted at Flat Lake showed good survival and excellent growth of walleye. Gill netting was conducted at Beaver Creek Reservoir to evaluate rainbow trout abundance and growth. Trout taken were in poor condition and have exhibited a significant decrease in size since 1974. Seining in this reservoir revealed a good population of forage fish for predator fish. Gill netting or seining was conducted at North Faber, Salmo, Ross, Lyons, Cowboy, Davey (bass), and BR 12 Reservoirs to evaluate the status of fish populations. Five bass reservoirs in south Phillips County were seined to determine winterkill and overall status. Seining was conducted in Battle Creek to evaluate brook trout and smallmouth bass introductions. Miscellaneous survey work of varying intensity was conducted on 56 reservoirs and 4 streams.

MONTANA DEPARTMENT OF FISH, WILDLIFE AND PARKS
FISHERIES DIVISION

JOB PROGRESS REPORT

State of Montana

Project No. F-11-R-27 Name Northeast Montana Fisheries Study

Job No. I-a Title Inventory and Survey of Waters of the Project Area

Period Covered April 1, 1979 through March 31, 1980

ABSTRACT

Beach seining conducted at Nelson Reservoir in 1979 indicated fair to poor walleye reproduction, but reproductive success of yellow perch was rated as good to excellent. Commercial seining at Nelson Reservoir yielded a poor catch of buffalo and carp. Fresno Reservoir was sampled by beach seining to evaluate reproductive success of sport fishes and forage abundance. Excellent reproduction of northern pike and yellow perch was indicated, while walleye reproduction was rated as fair to good. Smallmouth bass were introduced into Fresno Reservoir in 1976, but no survival has been found. The overall fish population in the Fort Peck Dredge Cuts and tailwater area was sampled by gill nets and seining. Gill netting at 12 sites produced a catch of 11 species. Goldeye were the most abundant species taken comprising 43.3 percent of the catch followed by shovelnose sturgeon which comprised 34.7 percent of the catch. Beach seining at 20 stations revealed low numbers of young-of-the-year and forage fishes in the dredge cut/tailwater area. Eleven seine hauls with a 550-foot x 18-foot seine produced a catch of 159 paddlefish, 140 smallmouth buffalo, 105 river carpsucker, 78 bigmouth buffalo, 43 carp, 3 blue sucker, 1 shorthead redhorse, and 1 channel catfish. Seining and trapping at Flat Lake revealed an abundance of yellow perch, carp, and white suckers. Box Elder Reservoir was sampled to evaluate rough fish and rainbow trout populations for possible rehabilitation with rotenone. Electrofishing of Frenchman, Rock, and Willow (tributary of Rock Creek) Creeks was conducted to evaluate smallmouth bass introductions made in 1976 and 1977. No smallmouth bass were taken, but a good population of walleye and northern pike was found immediately below Frenchman Dam. Beaver Creek was sampled by electrofishing at one station to determine the presence of walleye and other fishes. Seining was conducted on Sand, Prairie Elk, and Porcupine Creeks to obtain baseline information on the overall fish population. Streams originating in the Little Rocky Mountains was surveyed by electrofishing to determine fish populations

MONTANA DEPARTMENT OF FISH, WILDLIFE AND PARKS
FISHERIES DIVISION

JOB PROGRESS REPORT

State of Montana

Project No. F-11-R-29 Name Northeast Montana Fisheries Study

Job No. I-a Title Inventory and Survey of Waters of the Project Area

Period Covered April 1, 1981 through March 31, 1982

ABSTRACT

Shoreline seining was conducted at Nelson Reservoir to evaluate reproductive success of key species. The catch for young-of-the-year walleye was rated as fair to good and the yellow perch catch was rated as good to excellent. Frame traps were fished in early spring in Nelson Reservoir to sample the adult population. Larval fish sampling conducted on the Milk River resulted in a poor overall catch in 1981 and no walleye/sauger were taken at any river station. Beach seining and gill netting conducted in Beaver Creek Reservoir revealed substantial increases in white suckers and growth of rainbow trout remained poor. Mark-and-recapture fish population estimates were made and riffle invertebrate samples were collected at three sections on Beaver Creek to determine information on the existing trout population in relation to attempts to improve instream habitat by supplementing streamflow. Shoreline seining consisting of 142 hauls was conducted at 19 sites on Fort Peck Reservoir to evaluate reproductive success of various species and forage fish abundance. Northern pike reproduction was poor in 1981. Walleye reproduction was judged to be poor, but was difficult to evaluate due to stocking in some areas. Yellow perch and emerald shiners were the most abundant forage species taken, but in the upper reservoir goldeye, buffalo sp. and carp were the most abundant forage present. Ten stations on Fort Peck Reservoir were sampled with experimental gill nets to determine abundance of adult fishes. Walleye were the most abundant game fish taken but averaged only 12.0 inches in total length and 0.52 pounds. Only 9 of 96 walleye sampled exceeded 1.0 pounds in weight. Fourteen sites in four tributary streams in the Big Dry Arm of Fort Peck Reservoir were seined to evaluate spawning use by reservoir fishes. Gill netting conducted at 10 stations in the Fort Peck dredge cut/tailwater area produced a fair to good catch of walleye and sauger although fewer fish were taken than in 1980. Only four rainbow smelt were taken in 1981. Tagging of walleye and northern pike was initiated in Fresno Reservoir to evaluate angler harvest and impacts on movement associated with a low-head hydro project proposal. Box

MONTANA DEPARTMENT OF FISH, WILDLIFE AND PARKS
FISHERIES DIVISION

JOB PROGRESS REPORT

State of Montana

Project No. F-11-R-30 Name Northeast Montana Fisheries Study

Job No. I-a Title Inventory and Survey of Waters of the Project Area

Period Covered April 1, 1982 through March 31, 1983

ABSTRACT

Shoreline seining at Nelson Reservoir revealed poor reproductive success for walleye, but moderate numbers of northern pike were taken and yellow perch reproduction was rated as fair to poor in relation to good spawning conditions. Gill net catch data is presented for Nelson Reservoir. Spring trap netting in the upper Big Dry Arm of Fort Peck Reservoir produced a catch of 655 walleye which is a slight increase over 1979-81, but well below the mid-1970's. Data presented on the size of walleye taken shows a marked decline in the abundance of large fish. Thirteen stations on Fort Peck Reservoir were sampled with 125-foot experimental gill nets. The best walleye catch was made in the Big Dry Arm, but fair walleye catches in the lower reservoir indicate an increasing walleye population in this area. The average weight of walleye taken by gill nets in the Big Dry Arm was only 0.55 pounds; whereas, the average weight of walleye in this area during 1974-76 varied from 1.40-1.88 pounds. Beach seining in Fort Peck Reservoir to evaluate reproductive success consisted of 194 seine hauls. Northern pike and walleye reproductive success were poor. Fair to good catches of young walleye were largely attributed to stocking success. Yellow perch was the most abundant forage fish species taken. Yellow perch was the dominant species taken by larval fish sampling. Efforts to enhance the forage fish supply in Fort Peck Reservoir with spottail shiners and cisco are discussed. Population estimates were made on three reaches of Beaver Creek and management strategies utilizing wild rainbow and cutthroat trout are discussed. Gill-netting in the Fort Peck dredge cuts/tailwater revealed a decline in walleye and sauger which is attributed to a decline in rainbow smelt. Adult walleye and northern pike were tagged in Fresno Reservoir to determine movement through the dam due to a proposal to install a low-head hydro facility on outlet. Beach seining in Fresno Reservoir indicated excellent reproduction of walleye, northern pike, and yellow perch in 1982. Gill-netting in Beaver Creek Reservoir resulted in a large catch of white suckers; however, the size and condition of rainbow trout increased. Northern pike were taken in Beaver Creek Reservoir for the first time apparently as a result of

MONTANA DEPARTMENT OF FISH, WILDLIFE & PARKS
FISHERIES DIVISION

JOB PROGRESS REPORT

State of Montana Name Northeast Montana Fisheries Study

Project No. F-11-R-34 Title Inventory and Survey of Waters of the Project Area

Job No. I-a

Period Covered April 1, 1986 through March 31, 1987

ABSTRACT

Spring trapping in the Big Dry Arm of Fort Peck Reservoir caught 1,448 walleye which is the highest catch recorded since 1978, and the northern pike catch also increased. The average weight of walleye trapped in the Big Dry was similar to 1985. The walleye catch by spring trapping in the lower reservoir was the second best on record, but the catch for yellow perch was poor. Summer gill netting throughout the reservoir showed the best catches of walleye in the Big Dry Arm. Gill-net catches were generally poor throughout the reservoir. Shoreline beach seining demonstrated a 464 percent increase in spottail shiners compared to 1985 and this species was the most abundant forage fish taken. Seining indicated poor walleye spawning success. The best catch rate occurred in the spillway area where fry were stocked. Vertical gill-net sets in Fort Peck Reservoir revealed an excellent 1985 year-class for cisco. Lake trout creel census data was obtained for Fort Peck Reservoir. Gill netting in the Fort Peck dredge cuts/tailwater produced poor catches of walleye and sauger. Beach seining at Nelson Reservoir revealed poor walleye and yellow perch reproduction. Results of DeSmet and Eagle Lake rainbow stocking in Beaver Creek Reservoir is presented. Species distribution in the Milk River and its major tributaries is summarized. Creel census results to evaluate trout harvest at Faber Reservoir and Bear Paw Lake are presented for rainbow and cutthroat trout, respectively. Yellow perch size data and management efforts are presented for the Dredge Cut Trout Pond and Box Elder Reservoir. Numerous small reservoirs were surveyed to determine fishery potential and management needs.

RECOMMENDATIONS

Recommendations for each phase of this job are made as findings for individual waters are discussed.

Montana Department of Fish, Wildlife & Parks

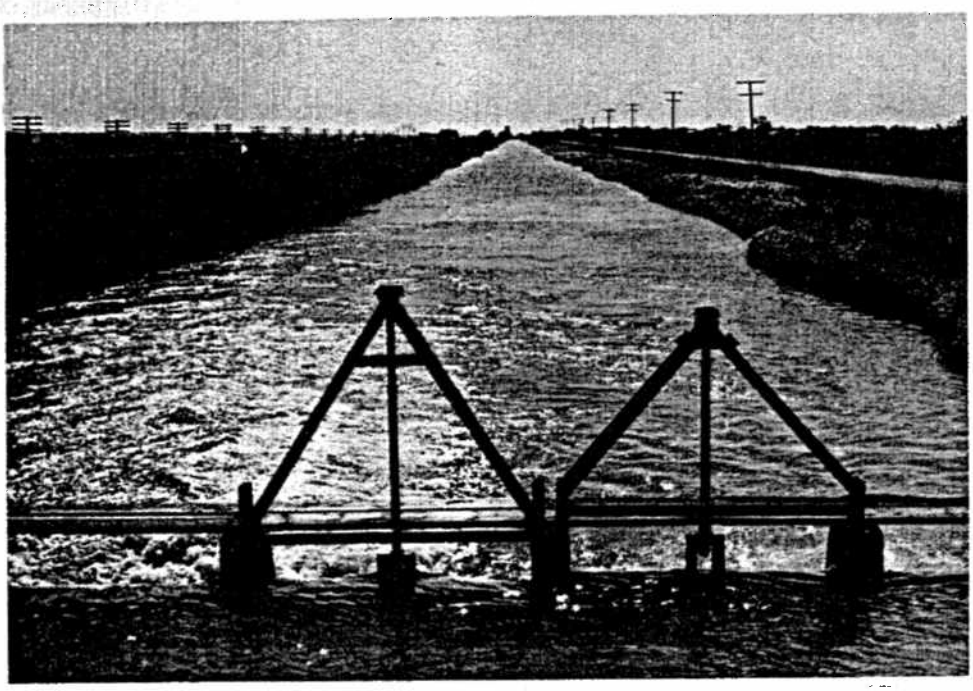
Fisheries Library
Fisheries Division
Montana Department of Fish, Wildlife and Parks
1420 E. Sixth Avenue
Helena, MT 59620

(406)444-3187

Contact Person: Carol Frasier

Most of the holdings in this library are also at the Montana State Library.

MILK RIVER PROJECT
WATER MEASUREMENT DATA
SUMMER 1986



by

U. S. Bureau of Reclamation

U. S. Soil and Conservation Service

Montana Department of
Natural Resources and Conservation

Blaine, Phillips, and Valley
County Conservation Districts

March 1987

Larry Peterman

UNITED STATES DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE

FISH AND WILDLIFE COORDINATION ACT REPORT
FOR THE
MILK RIVER WATER SUPPLY STUDY
MONTANA

Prepared by
Montana-Wyoming Field Office
Fish and Wildlife Enhancement
Region 6

August 1988

DRAFT

POTENTIAL PHYSICAL IMPACTS OF VIRGELLE DIVERSION ALTERNATIVE ROUTES

AUGUST, 1986

CHUCK DALBY
HYDROLOGIST, WATER PLANNING SECTION
WATER RESOURCES DIVISION
DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
1520 EAST SIXTH AVENUE
HELENA, MT 59620
(406) 444-6644

Peterman

RECEIVED
SEP 26 1986
FISHERIES DIV.

OPTIONAL FORM NO. 10
JULY 1973 EDITION
GSA FPMR (41 CFR) 101-11.6

UNITED STATES GOVERNMENT

Memorandum

TO : Regional Director, Bureau of Reclamation
Billings, Montana

DATE: September 22, 1986

FROM :
Field Supervisor, USFWS, Billings, Montana (ES)

SUBJECT:
Milk River Water Supply Study (USBR) - Planning Aid Memorandum

This Planning Aid Memorandum (PAM) supersedes our earlier PAM of August 9, 1984, on the subject project. The present analysis was prepared in accordance with the schedule outlined in the Draft Scope of Work dated April 10, 1986. This memorandum does not constitute the report of the U. S. Fish and Wildlife Service (FWS) within the meaning of Section 2 of the Fish and Wildlife Coordination Act (48 Stat. 401 as amended; 16 U.S.C. 661 et. seq.), nor does it discharge our responsibilities under the National Environmental Policy Act of 1969 (Public Law 91190, 83 Stat. 852-856).

INTRODUCTION

This document provides a preliminary assessment of the effects of the proposed Milk River Water Supply Project on fish and wildlife resources in north-central Montana. Three alternate pumping plant sites are evaluated including various canal routes for each. Discussions of the existing situation, future without the project, and future with the project are included.

This document should be incorporated into your Plan Formulation Working Document (PFWD). The draft Fish and Wildlife Coordination Act Report is due to you by February 15, 1987.

PROJECT DESCRIPTION

Existing Milk River Project and Need for Proposed Project

The Bureau of Reclamation's Milk River Project had its origin in the early 1900's. The project was conditionally approved by the Secretary of Interior on March 14, 1903, and by 1946, the last of the major project features was constructed. Water service is provided to 113,713 acres of land in nine irrigation districts comprising the project. These nine districts are located along the Milk River from a point 15 miles east of the Town of Havre, downstream to Nashua, a distance of 378 river miles. Of this total acreage, 97,715 acres are served by water diverted into canals by three diversion dams located on the Milk River, and 15,998 acres are served by pumping. In addition to project acreage,

5010-110

A FISHERIES OVERVIEW STUDY OF THE MILK RIVER BASIN

Prepared for
Alberta Environment

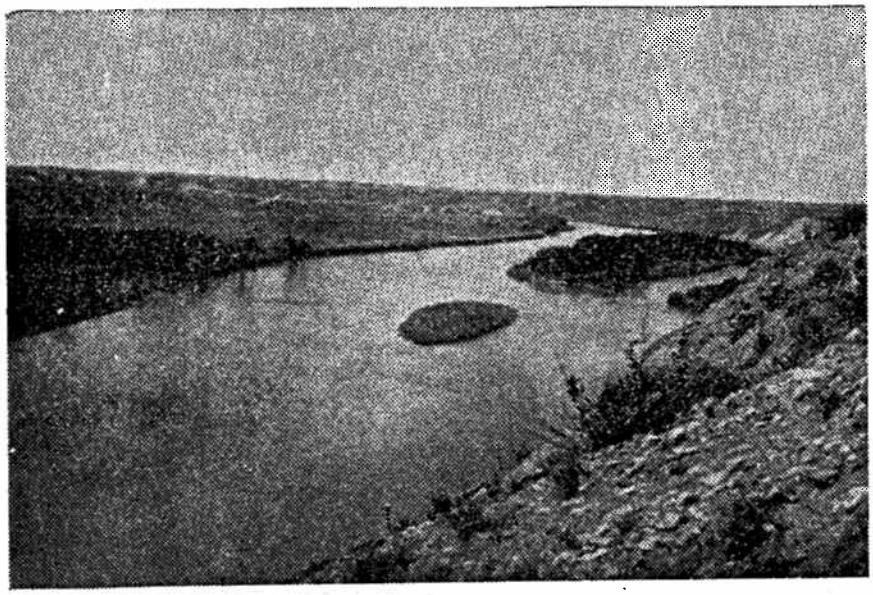
by
T.B. Clayton
and
G.R. Ash

R.L. & L. Environmental Services Ltd.
16841 110th Avenue
Edmonton, Alberta
June 1980

F-15-1

Assessment of Potential Fisheries Impacts Associated with the Milk River Water Supply Project

June 1, 1986



Prepared by:
Henry G. Drewes and Kent Gilge
Fisheries Biologists
Montana Department of Fish, Wildlife and Parks

TO: Carol
FROM: Loren Bahls
(You can keep)

~~Dick Pedersen~~

WATER QUALITY INVENTORY AND MANAGEMENT PLAN

MILK RIVER BASIN
MONTANA

by

WATER QUALITY BUREAU
ENVIRONMENTAL SCIENCES DIVISION
Montana Department of Health and Environmental Sciences

211

Gould F-14-1

Proceedings of the Montana Academy of Sciences 23:111-137, 1963

SOME LIMNOLOGICAL EFFECTS OF TIBER RESERVOIR ON THE MARIAS RIVER, MONTANA*

Quentin J. Stober

INTRODUCTION

Background of the Study

The objective of the present study was the determination of certain physical and biological effects of an impoundment on a river. Observations were made from June to September of the years 1960 and 1961. Temperature, turbidity, and plankton were measured in the river above the reservoir, in the reservoir proper, and in the river below. The effects of large impoundments on the temperature of outflowing water have been reported on TVA mainstream reservoirs by Dendy and Strout (1949), Pfitzer (1954), and Churchill (1956) and on Tenkiller Reservoir in Oklahoma by Finnell (1953). The action of large impoundments in reducing stream turbidity is well known. Descriptions were given by Ellis (1940)for Elephant Butte Reservoir, New Mexico, and for several other impoundments (1942). Turbidities, as measured by Secchi disc readings, were reported on Lake Mead by Anderson and Pritchard (1951) and on Atwood Lake in Ohio by Wright (1954). The effects of impoundments on river plankton have received little attention. Damann (1951) presented general information on the plankton of reservoirs across the Missouri River and its tributaries. Galstoff (1924) studied plankton above and below impoundments and in slow water areas of the upper Mississippi River, while Hartman and Himes (1961) analyzed the phytoplankton downstream from Pymatuning Reservoir in Pennsylvania. Brook and Rzòska (1954) studied the plankton in and below a reservoir on the White Nile River in Sudan.

Acknowledgments

The writer extends thanks to those individuals and agencies that assisted in this investigation. Nels A. Thoreson of the Montana Fish and Game Department suggested the problem and gave advice during the study. Dr. C. J. D. Brown directed the study and assisted in the

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*Contribution from Montana State College Agricultural Experiment Station, Project No. MS-844, Paper No. 580 Journal Series and from the Montana Fish and Game Department, Federal Aid in Fish Restoration Project No. F-5-R-10, 11.

UNITED STATES DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE

FISH AND WILDLIFE COORDINATION ACT REPORT
FOR THE
MILK RIVER WATER SUPPLY STUDY
MONTANA

Prepared by
Montana-Wyoming Field Office
Fish and Wildlife Enhancement
Region 6

August 1988

SUPPLEMENTAL WATER

for the

MILK RIVER

The State of Montana	Thomas L. Judge Governor
The Montana Department of Natural Resources and Conservation	John C. Orth Director
The Water Resources Division	Orrin Ferris Administrator

Montana Department of Natural Resources and Conservation
Helena
and
U.S. Department of Interior
Bureau of Reclamation
Region 6

February 1977
Helena, Montana

This study was conducted in compliance with House Bill 642 (1975), using funds appropriated by that bill.

MILK RIVER
WATER SUPPLY STUDY

PLAN FORMULATION WORKING DOCUMENT

MONTANA DEPARTMENT OF
NATURAL RESOURCES
AND CONSERVATION
HELENA, MONTANA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
GREAT PLAINS REGION
BILLINGS, MONTANA

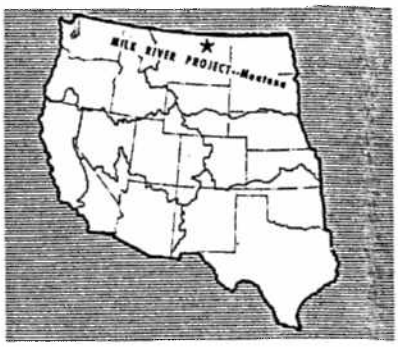
MILK RIVER IRRIGATION DISTRICTS
MALTA, MONTANA

Milk River Project

MONTANA, Blaine, Glacier, Phillips, and Valley Counties

REGION 6, Bureau of Reclamation

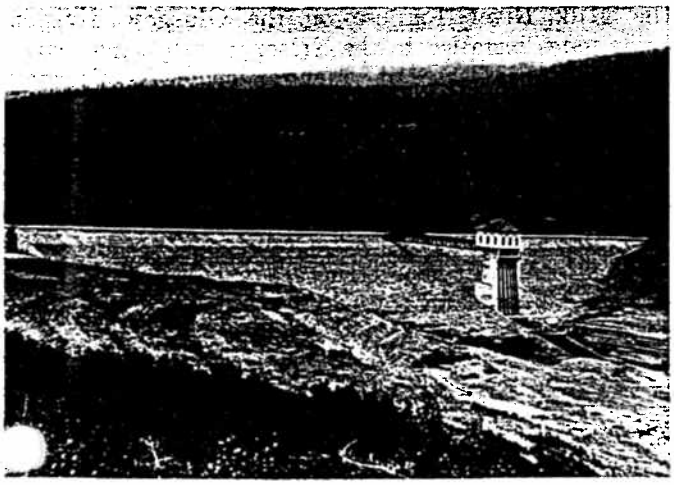
PROJECT HEADQUARTERS, Malta, Mont.



The Milk River project, in north-central Montana, furnishes water for the irrigation of about 134,000 acres of land. Project features are Sherburne Lake, the Nelson and the Fresno Storage Dams; the Dodson, Vandalia, St. Mary, and Swift Current Diversion Dams; the Dodson Pumping Plant, 199 miles of canals, 248 miles of laterals, and 185 miles of drains. A water supply is furnished to project lands which are divided into the Chinook, Malta, and Glasgow divisions and the Dodson Pumping Plant unit. The lands extend approximately 165 miles along the river from near Havre to a point 6 miles below Nashua. No power is developed on the project.

PLAN

The project provides for storage of water from St. Mary River in the Sherburne Lake behind Sherburne Lake Dam and its diversion through a 29-mile canal, discharging into the North Fork of the Milk River. It then flows through Canada for 216 miles before returning to the United States. Milk River water is stored in Fresno Reservoir, located 17 miles west of Havre, Mont., and in Nelson Reservoir, 19 miles northeast of Malta. The water is diverted from the Milk River near Chinook and Harlem into private canals on each side of the river for land in that area, comprising the Chinook division. Except for storage facilities, all water supply and distribution works were constructed and are operated and maintained by five irrigation districts comprising the Chinook division.



Sherburne Lake Dam.

Near Dodson, two canals divert water for irrigating land near Dodson, Wagner, Malta, and Bowdoin. The South Canal conveys water into Nelson Reservoir. From this storage, land is irrigated on the south side of the Milk River and Beaver Creek near Saco and Hinsdale, comprising the Malta division.

At Vandalia Diversion Dam, a canal on the south side of the Milk River carries water for the irrigation of land near Tampico, Glasgow, and Nashua, comprising the Glasgow division.

The Dodson pumping unit elevates water from the Dodson North Canal to irrigate lands above the gravity system.

Sherburne Lake Dam

The Sherburne Lake Dam is a compacted earthfill structure 96 feet in height above foundation, with a crest length of 1,086 feet. The total volume of material in the dam is 228,000 cubic yards. An overflow weir-type spillway at the north end of the dam has never been operated because of sliding action in the adjacent mountain, which disrupted the structure. Reservoir water surfaces are controlled by operation of the two 12-foot-diameter cylinder gates which permit discharge of 2,880 cubic feet per second. A total storage capacity of 66,100 acre-feet is provided in Sherburne Lake.

Swift Current Diversion Dam

The Swift Current Diversion Dam is an earth and rock structure with a timber crib core. It is 13 feet high, 4,800 feet long at the crest, and contains 98,000 cubic yards of material.

St. Mary Diversion Works and Canal

The St. Mary Diversion Works, located on the St. Mary River three-fourths of a mile below Lower St. Mary Lake, is constructed as a concrete weir and sluiceway with a structural and hydraulic height of 6 feet,

PAU
-3218-

X-B-BC1

FORT PECK-HAVRE TRANSMISSION LINE STUDY

ENVIRONMENTAL REPORT

Historical Resources

Prepared For:

Western Area Power
Administration

Prepared By:

Arthur Dolman, PhD.
Northern Montana College
Havre, Montana

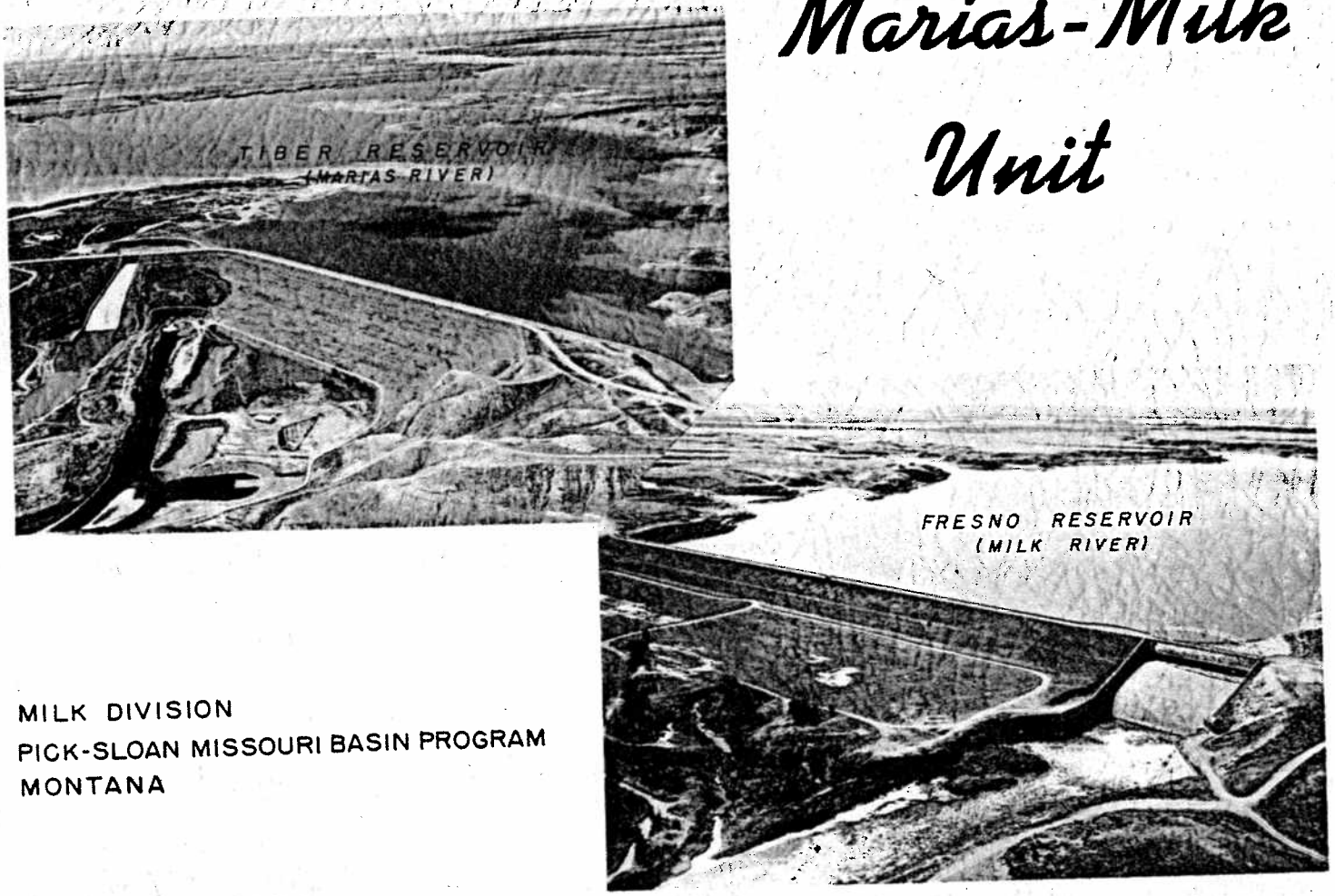
DRAFT 4-13-81

#14

X-14-Box 46

Feasibility Report on

Marias-Milk Unit



MILK DIVISION
PICK-SLOAN MISSOURI BASIN PROGRAM
MONTANA

U.S. DEPARTMENT OF
THE INTERIOR
Rogers C. B. Morton, Secretary

BUREAU OF RECLAMATION
Ellis L. Armstrong, Commissioner

AUGUST 1970
(Revised July 1971)

#14
X-14-BOX

BEFORE THE

FEDERAL ENERGY REGULATORY COMMISSION

APPLICATION FOR LICENSE
MAJOR PROJECT - EXISTING DAM
PROJECT NO. 7022-000

TIBER DAM POWER PROJECT

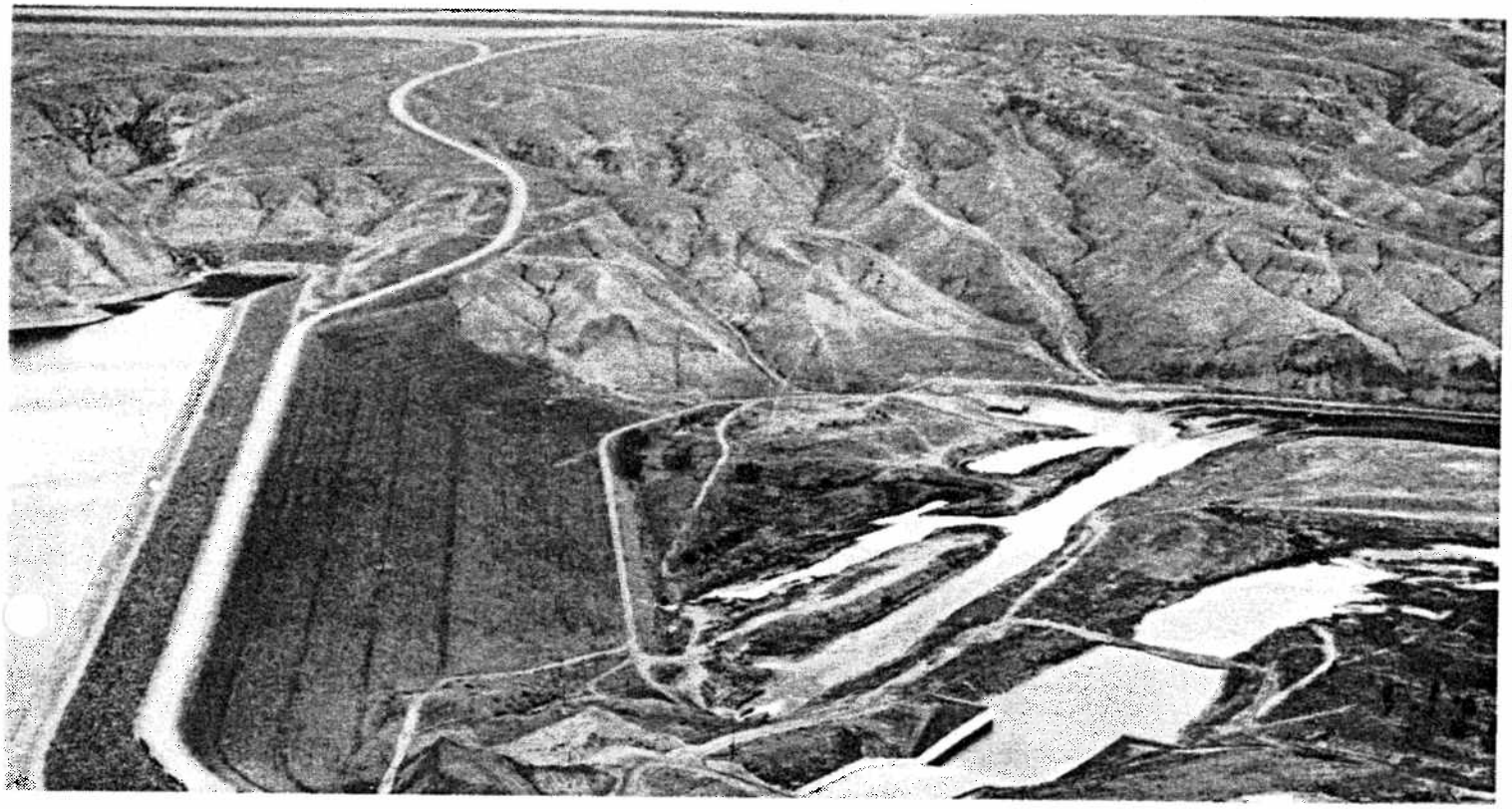
TIBER DAM, MONTANA

MALTA IRRIGATION DISTRICT
GLASGOW IRRIGATION DISTRICT
DODSON IRRIGATION DISTRICT
ZURICH IRRIGATION DISTRICT
HARLEM IRRIGATION DISTRICT
FORT BELKNAP IRRIGATION DISTRICT
PARADISE VALLEY IRRIGATION DISTRICT
ALFALFA VALLEY IRRIGATION DISTRICT

JANUARY 1983

(COMPETING WITH LAKE ELWELL HYDROELECTRIC PROJECT)

(PROJECT NO. 6432)



UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE
NORTH CENTRAL REGION
TWIN CITIES, MINNESOTA

A REPORT

ON FISH AND WILDLIFE RESOURCES

AFFECTED BY THE

MARIAS-MILK UNIT

MONTANA

October 1969

IS-14

INSTREAM FLOW REQUIREMENTS

FOR THE MARIAS RIVER FISHERY DOWNSTREAM OF TIBER DAM

By

William M. Gardner
and
Rodney K. Berg

Montana Department of Fish, Wildlife and Parks
Rural Route 4041
Great Falls, Montana 59405

This study was sponsored by
Bureau of Land Management
US Department of Interior
Lewistown District Office
P.O. Box 3388
Lewistown, Montana 59457

James Barnum - Project Officer

SEPTEMBER 1983

ARCHIVE BOX 1988

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1988

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1. Missouri River Basin Project (U.S.). Jefferson Unit. 2. Missouri River Basin Project (U.S.). Whitehall Unit. 3. Water resources development--Montana--Big Hole River watershed. 4. Water resources development--

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Mt wln88-52797

MISSOURI RIVER BASIN PROJECT (U.S.). WHITEHALL UNIT

S
333.9115
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1965
A detailed report on the Jefferson and Whitehall units, Montana, Missouri River Basin Project. -- Minneapolis, Minn. : United States Department of the Interior, Fish and Wildlife Service, Bureau of Sport Fisheries and Wildlife, North Central Region, [1965]
1 v. (various pagings) : ill., map ; 27 cm.
"March 1965".
1. Missouri River Basin Project (U.S.). Jefferson Unit. 2. Missouri River Basin Project (U.S.). Whitehall Unit. 3. Water resources development--Montana--Big Hole River watershed. 4. Water resources development--

(~~continued~~)

Mt wln88-52797

Missouri River Basin Project

U.S. Bureau of Reclamation.
Reconnaissance report on Moorhead Unit Montana-Wyoming,Powder Division. Missouri River Basin Project. Great Falls, Mont. 1969.
1 v. (various pagings)

1. Moorhead Unit. 2. Water Resources Development-Montana. 3. Water Resources Development-Wyoming. I. Missouri River Basin Project. II. Title.

Missouri River Basin Project

United States. Bureau of Reclamation.
Report on Yellowstone Division, Montana-North Dakota Missouri River Basin project / United States Dept. of the Interior, Bureau of Reclamation, Region 6, Upper Missouri Projects Office?. -- Great Falls, MT? : The Office?, 1963.
viii, 124 leaves : ill. : maps ; 29 cm.
"Copy no. 13"
Spine title: Report-Yellowstone Division-Montana and North Dakota.
1. Water re- sources development--Mont-

Missouri River Basin Project.

U.S. Bureau of Reclamation. Upper Missouri Projects Office. Great Falls, Montana.
Cracker Box and Stipek units, Montana, Yellowstone division, Missouri River Basin Project. Great Falls, Mont., 1968.
63 l. maps.

At head of title: Status report.

MISSOURI RIVER BASIN PROJECT

United States. Bureau of Reclamation.
Report on Jefferson-Whitehall unit, Montana, Three Forks division, Missouri River Basin project. 1966.
1 v. (various pagings)

1. Irrigation. 2. Jefferson-Whitehall unit. 3. Missouri River Basin project. I. Title.

Missouri River Basin Project. Garrison Diversion Unit.

International Joint Commission.
Transboundary implications of the Garrison Diversion Unit / International Joint Commission, Canada and United States. -- [Ottawa : Washington, D.C.], c1977.
v, 153 p. : ill. ; 28 cm.

1. Water-supply--North Dakota. 2. Water quality--Manitoba. I. Missouri River Basin Project. Garrison Diversion Unit. II. Title.

78-304177

 Missouri Basin Project of the Smithsonian Institution
Oahe reservoir: archeology, geology, history
Omaha, Nebr. Corps of Engineers 1963

1. Reservoirs - South Dakota 2. Archeology - South Dakota

MISSOURI RIVER BASIN STUDIES

U. S. Land Management Bureau, Denver
Middle Yellowstone River area Montana.
classification of public domain. 1969.

Missouri River Basin studies

Land planning and classification report of the public domain lands in the Big Dry Montana pumping area, Montana. -- Denver Colo. : Dept. of the Interior, Bureau of Land Management, 1972.
147 p. ; ill. maps ; 27 cm. --
(Missouri River Basin studies)
Maps in pocket.

I. United States. Bureau of Land Management.
II. Title: Big Dry Creek-Montana pumping area.
III. Series.

Missouri River Basin state and federal water

and related land resource programs, fiscal ...

Missouri River Basin state and federal water and related land resource programs, fiscal years, 1979-1983 / Missouri River Basin Commission. -- Omaha : The Commission, 1978.
11 v. : maps ; 28 cm.

1. Water resources development--Missouri River Basin Commission. 2. Land use--Missouri River Basin. I T46.

MISSOURI RIVER BASIN STUDIES

U. S. Land Management Bureau, Denver
Upper Yellowstone River area, Montana and Wyoming, classification of public domain. 1965.

MISSOURI RIVER BASIN STUDIES

U. S. Land Management Bureau, Denver
Tongue River area, Montana and Whoming, classification of public domain. 1967.

MISSOURI RIVER BASIN STUDIES

U. S. Land Management Bureau, Denver
Musselshell River area, Montana, classification of public domain. 1971.

MISSOURI RIVER BASIN, MONTANA

Montana. Department of Health and Environmental Sciences.

Missouri river basin above Ervin Ridge : interim water quality management plan / Department of Health and Environmental Sciences. -- Helena, Montana : The Dept., 1972.

1v. (various pagings) : map : charts ; 28 cm.

Imperfect copy: environmental assessment, Table 1 amended wanting.

Photocopy of typescript.

Missouri River Basin Water Institute Consortium.

Identification and analysis of selected high priority water problems and related research needs of the Missouri River Basin / by Missouri River Basin Water Institute Consortium. -- [S.l.] : The Consortium, 1976.

iii, 66 leaves : ill. ; 29 cm.

Completion report, project number X-135-Neb. agreement number - OWRT-USDI 14-31-0001-9709.

1. Water resources development--Missouri River Basin. 2. Missouri River Basin. I. Title. II. Title: Water problems and related research needs of the Missouri River Basin.

Missouri River Basin water resources management plan : a comprehensive coordinated joint plan for water and related land resources and draft environmental impact statement. -- Omaha : Missouri River Basin Commission, 1980.

3 v. : ill. ; 28 cm.

Updates Missouri River Basin water resources plan, 1977. -- Includes bibliographical references.

1. Water resources development--Missouri River Basin. 2. Missouri River Basin. I. Missouri River Basin Commission.

Missouri River Basin Water Resources Management Plan. : a comprehensive, coordinated joint plan for water and related land resources and final environmental impact statement, 1980

Missouri River Basin Water Resources Plan, 1977

DOCUMENTS

MISSOURI RIVER BREAKS, MONTANA - ANTIQUITIE

S
917.8603
A26m2

Montana Archaeological Society.
The Keaster Site (24PH401): a stratified bison kill occupation in the Missouri Breaks area of north central Montana, by Leslie B. Davis and Emmett Stallcop. Memoir 2. 1965.
27 p.

S
388.1
H3eisd
BRF25-1
(7)46
1987

Missouri River bridge and approaches southeast of Wolf Point, Montana, BRF 25-1(7)46 ... draft environmental assessment and programmatic section 4(f) statements : submitted pursuant to 42 U.S.C. 4332(2)(c) and 49 U.S.C. 303 / by the U.S. Department of Transportation, Federal Highway Administration and the Montana Department of Highways. -- [Helena, Mont. (2701 Prospect, Helena 59620)] : Dept. of Highways, [1987] 55 leaves : ill., maps ; 28 cm.

Cover title.
"February 1987."

(Continued)

Mt wln87-133181

The Missouri River brief series

S
333.91
M26bcw

Boundaries carved in water. -- No.1 (Feb. 1988)- -- Missoula, Mont. : Missouri River Management Project, Northern Lights Research and Education Institute, c1988- v. : 28 cm. -- (The Missouri River brief series)

Title from caption.
Subtitles vary.
Missouri River Management Project, Northern Lights Research and Education Institute, P.O. Box 8084, Missoula, Mt. 59807-8084.
1. Water resources development--Missouri River Watershed--Periodicals. 2. Water use--Missouri River--Periodicals. 3. Missouri River Basin--Periodicals. I. Missouri River

(Continued)

Mt wln89-63947

Missouri River Drainage Basin

Summary Report on Water Pollution

2 C

Missouri River Flood Plain Legal and Institutional Framework Study.

I

Missouri River Flood Plain Legal and Institutional Framework Study: Executive Summary.

Green Card

Missouri River Flow Study Holter Dam to Smith RIver. 1981

Missouri River, Fort Peck Reservoir to Vicinity of Fort Benton, Montana

U.S. Army. Corps of Engineers. Missouri River Division.

Joint report on water and land resources development [for] Missouri River, Fort Peck Reservoir to vicintiy of Fort Benton, Montana / by Division Engineer, Missouri River Division, Corps of Engineers, U.S. Army and Regional Coordinator, Missouri River Basin Region, Dept. of the Interior. -- Washington, D.C. : Dept. of Interior, 1963.

5v. : charts : maps ; 28 cm.

Missouri River, Fort Peck Reservoir to Vicinity of Fort Benton, Montana

U.S. Army. Corps of Engineers. Missouri River Division.

Review report on water and related land resources development [for] Missouri River-Fort Peck Reservoir to vicinity of Fort Benton, Montana / by Division Engineer, Missouri River Division, Corps of Engineers, U.S. Army. -- Omaha, Nebraska : The Corps, 1963.

9p. ; 28 cm.

MISSOURI RIVER, FORT PECK TO FORT BENTON. Joint Study. Information Bulletin. 1963.

Missouri River guide from Holter Lake to Great Falls. -- [Helena] : Montana Department of Fish, Wildlife and Parks, [1982?].
1 sheet : map ; 22 x 36 cm. folded to 22 x 12 cm.

1. Boats and boating--Missouri River--Guide-books. 2. Canoes and canoeing--Missouri River--Guide-books. 3. Missouri River--Recreational use--Guide-books. I. Montana. Dept. of Fish, Wildlife, and Parks.

917.86 [19]

Mt wln82-69627

Missouri River : letter from the Secretary of War transmitting pursuant to section 1 of the River and Harbor Act approved January 21, 1927 ... Washington, D.C. : G.P.O., 1935.
1,245 p. : maps ; 23 cm.
Serial set #9829.
"73rd Congress, 2nd Session, House Document no. 238."

I. United States. Army. Chief of Engineers.

Mt wln89-166544

Missouri River main stem reservoir regulation studies

U.S. Army. Corps of Engineers. Missouri River Division.
Missouri River main stem reservoir regulation studies. Omaha, Neb., U.S. Army Corps of Engineers, 1974.
30 p. 30 plates, tables. (its series 1-74)

1. Reservoirs - Environmental aspects - Missouri River Basin. I. Title.

Missouri River Main Stem System: Draft Environmental Statement, 1976 2C

Missouri River Management Project (U.S.)

S
333.91
M26bcw

Boundaries carved in water. -- No.1 (Feb. 1988)- -- Missoula, Mont. : Missouri River Management Project, Northern Lights Research and Education Institute, c1988-
v. : 28 cm. -- (The Missouri River brief series)
Title from caption.
Subtitles vary.
Missouri River Management Project, Northern Lights Research and Education Institute, P.O. Box 8084, Missoula, Mt. 59807-8084.
1. Water resources development--Missouri River Watershed--Periodicals. 2. Water use--Missouri River--Periodicals. 3. Missouri River Basin--Periodicals. I. Missouri River

(~~continued~~)

Mt wln89-69947

GREEN CARD

The Missouri River Morony Dam to Ft. Benton
A Fish and Wildlife Assessment. June 1981

Missouri River navigation study

Newell, Alan

Missouri River navigation study : Loma, Montana to Three Forks, Montana / manuscript prepared by: Alan Newell & Gary Williams ; presented to: U.S. Army Corps of Engineers, Omaha District. -- Omaha : The District?, 1974.

[53]p. : ill ; 28 cm.

Includes bibliography and appendices.

1. Missouri River, Montana. 2. Rivers--Montana. 3. Navigation--Montana--Missouri River. I. Williams, Gary. II. U.S. Army Corps of Engineers. Omaha District. III. Title.

Missouri River preservation and development...

Siouxland Interstate Metropolitan Planning Council.

Missouri River preservation and development project: an economic analysis of the impact of waterway user charges on commercial navigation to Sioux City, Iowa / prepared for the Old West Regional Commission ; by the Siouxland Interstate Metropolitan Planning Council. -- Sioux City : The Council, 1978.

iii, 53 p. ; 28 cm.

Tables.

Bibliography: p. 53.

1. Inland water transportation--Missouri

Missouri Rive Preservation and Development Project: Background Studies on Portions of the Missouri River, Gavins Point Dam to the Mouth of the Little Sioux River. July 1, 1977

Shelved in the Back on the Old West Regional Commission Shelf.

Missouri River, South Dakota, Nebraska, North Dakota, Montana additional hydropower

United States. Army. Corps of Engineers.
Reconnaissance report, Missouri River, South Dakota, Nebraska, North Dakota, Montana additional hydropower / prepared by the Omaha District, Corps of Engineers, Dept. of the Army. -- Omaha? : The Corps, 1980.
iv, 65 p. : maps, 16 plates ; 27 cm.
On cover: draft.

1. Water-power--Missouri River Basin. 2. Water-power electric plants--Missouri River Basin. I. Title. II. Title: Missouri River, South

Missouri River, South Dakota, Nebraska, North Dakota, Montana: Review Report for Water Resources Development, 1977

* 3 Vols.

Missouri River, South Dakota, Nebraska, North Dakota, Montana, streambank erosion control

United States. Army. Corps of Engineers. Omaha District.
Missouri River, South Dakota, Nebraska, North Dakota, Montana, streambank erosion control : final environmental statement / Department of the Army, U.S. Army Engineer District, Corps of Engineers, Omaha. -- Omaha? : The Corps, [1978]
x, 89, A-1--C-116 p. : ill., maps ; 27 cm.
Cover title.

1. Erosion. 2. Rivers. 3. Soil conservation. 4. Missouri River. I. Title: Streambank erosion control. II. Title:

MISSOURI RIVER VALLEY--DESCRIPTION AND TRAVEL

Gildart, Robert C.
Montana's Missouri River / by R.C. Gildart. -- Helena, Mont. : Montana Magazine, inc., [1984?]
104 p. : col. ill., col. maps ; 22 x 28 cm. -- (Montana geographic series ; no. 3)
ISBN 0-938314-10-6

MISSOURI RIVER VALLEY--HISTORY

.61
DART
Gildart, Robert C.
Montana's Missouri River / by R.C. Gildart. -- Helena, Mont. : Montana Magazine, inc., [1984?]
104 p. : col. ill., col. maps ; 22 x 28 cm. -- (Montana geographic series ; no. 3)
ISBN 0-938314-10-6

1. Missouri River Valley--History. 2. Missouri River Valley--Description and travel. 3. Montana--History. 4. Montana--Description and travel--1981- I. Title. II. Series.

978.61 [19]

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wln85-26084

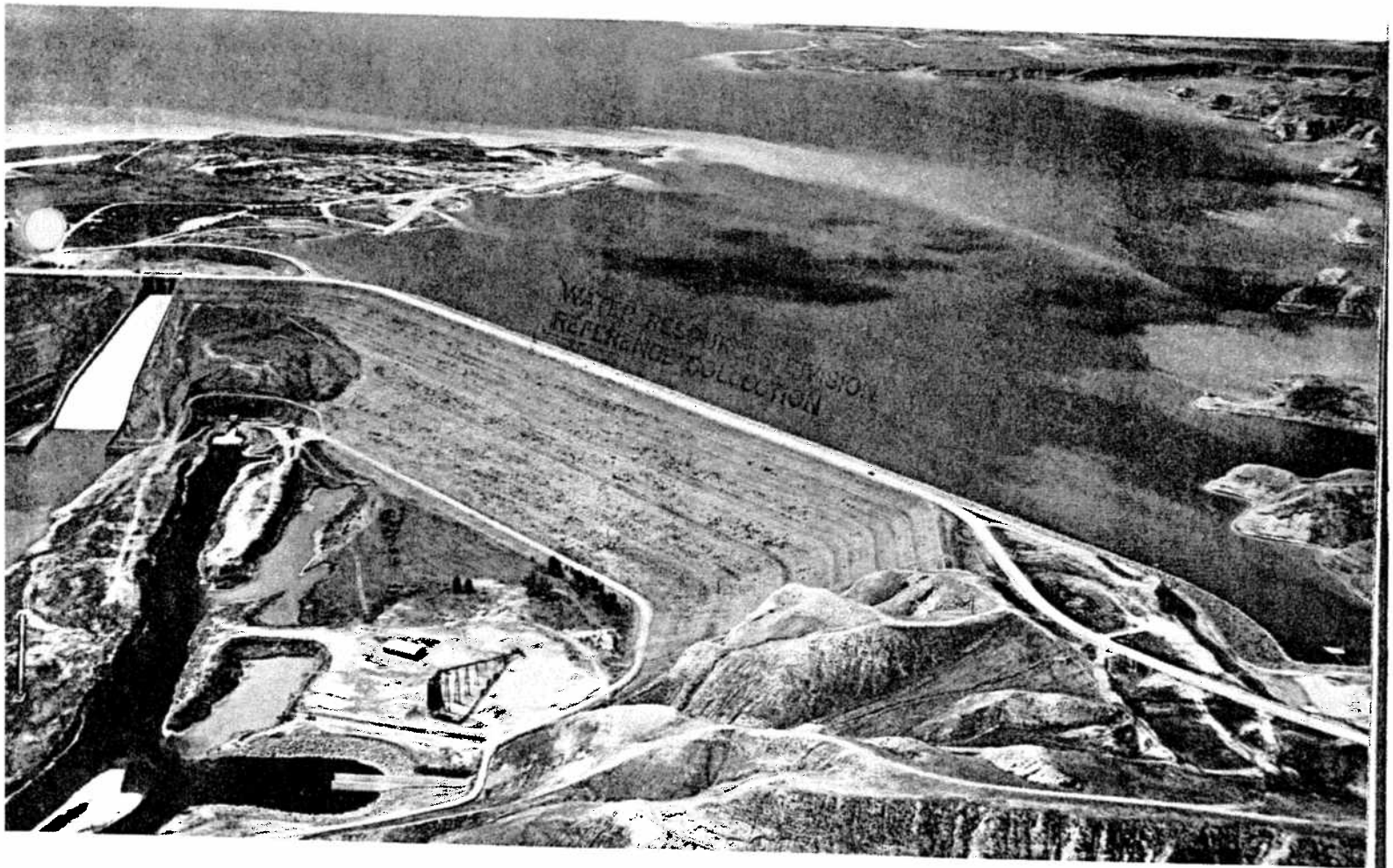
Montana Department of Fish, Wildlife & Parks

Department of Natural Resources and Conservation
Water Resources Division Library
1520 E. Sixth Avenue
Helena, MT 59620

Contact Person: Nancy Anderson (406)444-6603

TIBER POWERPLANT APPRAISAL REPORT

LOWER MARIAS UNIT
MARIAS DIVISION
PICK-SLOAN MISSOURI BASIN PROGRAM
MONTANA



U S DEPARTMENT OF THE INTERIOR
WATER AND POWER RESOURCES SERVICE
UPPER MISSOURI REGION
BILLINGS, MONTANA

Advance Copy

November 1980

UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Reclamation
Region 6

RESERVOIR MANAGEMENT PLAN
TIBER RESERVOIR

Lower Marias Unit
Missouri River Basin Project

Billings, Montana

Specifications No. 5128

UNITED STATES

DEPARTMENT OF THE INTERIOR

BUREAU OF RECLAMATION

Schedule, Specifications, and Drawings

TIBER DAM AND DAKE

MARIAS UNIT, MARIAS DIVISION, MONTANA

MISSOURI RIVER BASIN PROJECT

Bids will be received at the office of the Bureau of Reclamation,

Council Chambers, Civic Center Building, Great Falls, Montana, on

10 a.m., Mountain Standard Time, August 15, 1956

PRICE $0.75

TIBER DAM AND DIKE

LOWER MARIAS UNIT, MARIAS DIVISION, MONTANA
MISSOURI RIVER BASIN PROJECT

Bids will be considered on the following schedule, but no bid will be considered for only part of the schedule.

SCHEDULE

Item No.	Work or material	Quantity and price	Amount
1	Diversion and care of river during construction and unwatering foundations	For the lump sum of _____ _____ (words) _____ dollars	$_____
2	Excavation, unclassified, in open cut for spillway and river outlet	1,000,000 cu. yds., at _____ _____ (words) _____ ($_____) per cu. yd.	_____
3	Excavation, unclassified, in open cut for canal outlet	180,000 cu. yds., at _____ _____ (words) _____ ($_____) per cu. yd.	_____
4	Excavation, unclassified, in tunnels	20,000 cu. yd., at _____ _____ (words) _____ ($_____) per cu. yd.	_____
5	Furnishing and placing permanent structural-steel tunnel supports, steel tunnel-liner plates, and steel lagging	970,000 pounds, at _____ _____ (words) _____ ($_____) per pound	_____

PRELIMINARY

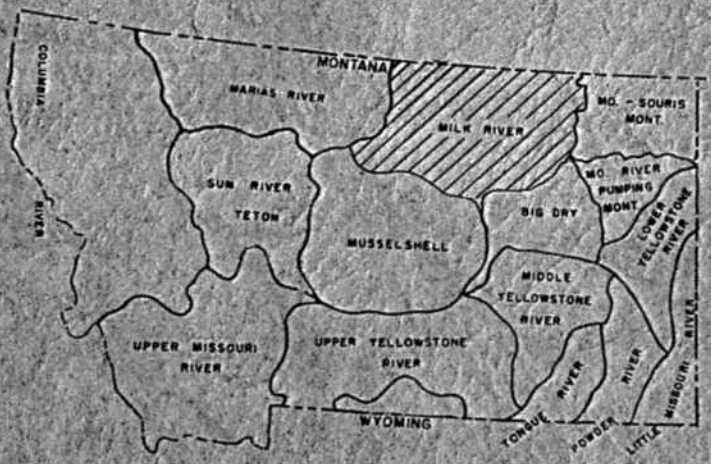
LAND PLANNING AND CLASSIFICATION REPORT

OF THE

PUBLIC DOMAIN LANDS

IN THE

MILK RIVER AREA



MONTANA

A MISSOURI RIVER BASIN INVESTIGATION

(FOR ADMINISTRATIVE USE ONLY)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
REGION III
BILLINGS, MONTANA

JUNE 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MISSOURI RIVER BASIN

LAND INVENTORY OF THE PUBLIC DOMAIN

A SUMMARY – 1972

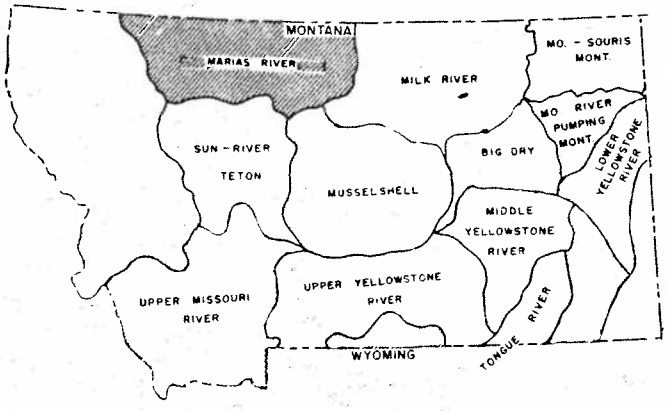
LAND PLANNING AND CLASSIFICATION REPORT

OF THE

PUBLIC DOMAIN LANDS

IN THE

MARIAS RIVER AREA



MONTANA

A MISSOURI RIVER BASIN INVESTIGATION

(FOR ADMINISTRATIVE USE ONLY)

UNITED STATES DEPARTMENT OF THE INTERIOR

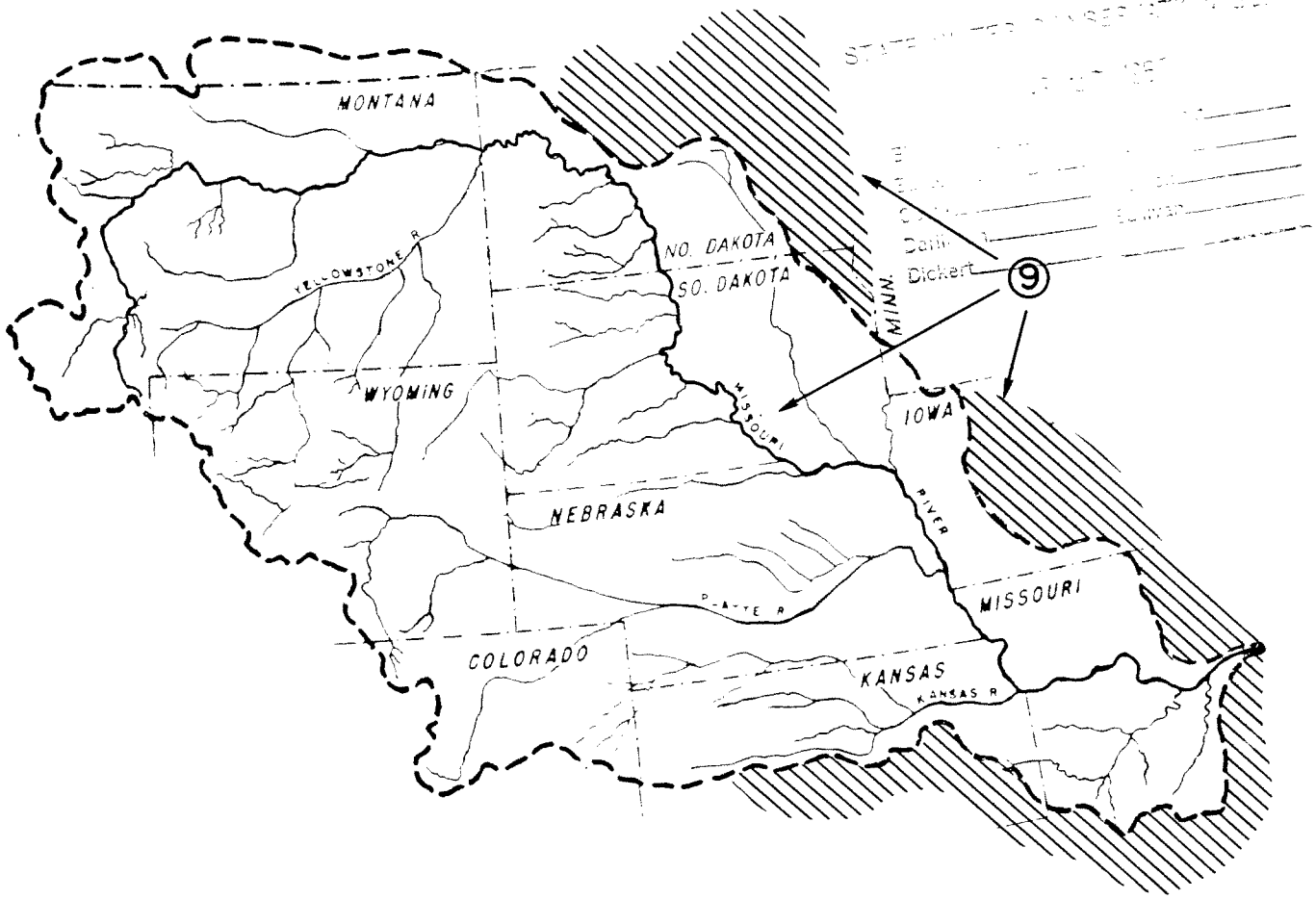
BUREAU OF LAND MANAGEMENT

REGION III

BILLINGS, MONTANA

MARCH 1953

The MISSOURI RIVER BASIN



COMPREHENSIVE FRAMEWORK STUDY
STREAMFLOW CHARACTERISTICS
MISSOURI RIVER MAIN STEM

FLOW-DURATION, HIGH-FLOW AND LOW-FLOW TABLES FOR SELECTED STATIONS THROUGH 1963

(ALSO INCLUDES DATA FOR AREAS IN UPPER AND LOWER MISSISSIPPI AND HUDSON BAY BASINS)

PREPARED BY:
WORK GROUP ON HYDROLOGIC ANALYSES AND PROJECTIONS
STANDING COMMITTEE ON COMPREHENSIVE BASIN PLANNING
MISSOURI BASIN INTER-AGENCY COMMITTEE

December 1966

Missouri River at Virgelle, Mont. (06-1095.00)

Location.--Lat 48°00'14", long 110°15'19", in SW¼SE¼ sec.13, T.26 N., R.11 E., on left bank a quarter of a mile upstream from Virgelle ferry, half a mile southwest of Virgelle, and 3 miles downstream from Spring Coulee.
Drainage area.--34,379 sq mi.
Average discharge.--28 years (1936-63) 7,718 cfs.
Remarks.--Diversions for irrigation of about 830,000 acres above station. Flow regulated by 23 smaller irrigation reservoirs and powerplants, Canyon Ferry Reservoir, and Tiber Reservoir.

DURATION TABLE OF DAILY DISCHARGE

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS-DAYS
1936		1				1	1	2	11	42	56	85	54	21	22	15	8	9	21	7	2	8														1836148.0
1937								5	38	52	64	49	42	19	42	33	14	2	2	3																1515640.0
1938									3	40	87	84	38	15	10	7	7	7	12	5	6	8	26	10												2456030.0
1939									2	7	55	69	42	30	49	14	10	26	32	16	12	1														2211790.0
1940								1	5	16	107	92	40	20	23	5	3	24	25	5																1742490.0
1941									3	14	57	99	65	47	48	13	1	10	1	6	1															1638600.0
1942											16	36	33	26	87	48	20	13	11	15	21	5	11	3	16	4										3220170.0
1943											3	4	20	53	105	38	6	17	3	8	24	28	21	8	3	13	5	4	2							4162720.0
1944												5	25	70	165	26	14	9	8	8	8	3	12	12	1											2704240.0
1945											6	31	47	63	128	16	11	12	8	8	10	12	5	8												2504330.0
1946											6	24	29	54	129	28	16	26	23	13	8	9														2424270.0
1947									2		2	4	32	42	44	82	24	23	19	11	18	25	9	13	14	1										3672530.0
1948													4	3	59	113	53	34	8	7	5	12	24	4	1	4	10	12	5	6	1	1				4881200.0
1949										5	20	25	27	37	62	73	14	24	17	13	24	4	18	2												2851140.0
1950										2	2	15	19	21	91	57	37	53	4	5	17	13	11	4	12	2										3274650.0
1951											1	3	6	16	55	74	78	9	22	15	24	10	26	23	3											3830370.0
1952											1	5	24	35	51	52	78	26	3	15	14	12	27	23												3583930.0
1953									1		7	13	31	45	125	52	9	25	11	1	3	11	4	4	4	3	7	1	3	1		1	3			3539130.0
1954										2	8	29	35	57	82	62	25	20	11	17	13	2	2													2381630.0
1955												4	16	31	139	76	19	27	20	20	12	1														2529130.0
1956											1	3	5	13	114	126	39	23	17	1	8	8	3	4	1											2716680.0
1957											1	1	1	14	149	74	50	23	10	15	8	11	8													2752680.0
1958														3	39	193	31	41	14	19	13	7	5													2899850.0
1959												1	8	30	48	105	73	26	18	9	7	19	13	8													3138970.0
1960												4	12	36	117	30	21	49	33	25	32	5	2														2967720.0
1961										1	5	17	37	63	144	78	7	8	5																	2004290.0
1962												2	6	11	86	134	74	15	1	8	12	9	7														2723680.0
1963											1	1	15	33	160	56	17	25	13	6	2	27	9														2761910.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
	.0		10227	100.0	09	2500.0	181	10151	99.3	18	10000	372	1720	16.8	27	45000	17	40	.4
1	600.0	1	10227	100.0	10	3000.0	506	9970	97.5	19	12000	281	1348	13.2	28	50000	10	23	.2
2	700.0		10226	100.0	11	3500.0	705	9464	92.5	20	14000	304	1067	10.4	29	60000	7	13	.1
3	800.0		10226	100.0	12	4000.0	713	8759	85.6	21	17000	250	763	7.5	30	70000	1	6	.1
4	1000.0		10226	100.0	13	4500.0	908	8046	78.7	22	20000	243	513	5.0	31	80000	2	5	.0
5	1200.0	1	10226	100.0	14	5000.0	2373	7138	69.8	23	25000	126	270	2.6	32	100000	3	3	.0
6	1400.0	1	10225	100.0	15	6000.0	1680	4765	46.6	24	30000	55	144	1.4	33	120000			.0
7	1700.0	8	10224	100.0	16	7000.0	759	3085	30.2	25	35000	27	89	.9	34				.0
8	2000.0	65	10216	99.9	17	8000.0	606	2326	22.7	26	40000	22	62	.6	35				

Montana Department of Fish, Wildlife & Parks

NRIS - Natural Heritage
Montana State Library
1515 E. Sixth Avenue
Helena, MT 59620

Information/Reference: (406)444-5354

MONTANA NATURAL RESOURCE INFORMATION SYSTEM

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STATE OF MONTANA

1515 EAST 6TH AVENUE

HELENA, MONTANA 59620
(406) 444-5354

MEMORANDUM:

February 6, 1992

FROM: Peter J. Langen, NRIS 444-5354

TO: Carol Frazer, DFWP

Enclosed is a printout from the Montana Natural Resource Index containing a list of references, some of which may be of interest to you.

I did several searches using key words such as; pump(ing), Marias and Milk. However, none of the references looked at all good. So I did a search based on "inter-basin transfers". The results are on the list. Some of them look like they may be of some help to you.

If there is anything else NRIS can do for you, please contact Jim Stimson at 5356, as I have taken a new job with the Reserved Water Rights Compact Commission.

Author: Black & Veatch.
Date: 1981
Title: Feasibility study of Duck Creek water diversion for city/county water study commission of Valley County, Montana.
Citation: Kansas City, MO: project no. 9738, tables, figures, maps, 26 pages plus appendices.
Shelfnote: DNRC-WR.3.A.4. Code: 11070
Abstract:

Author: Dept. of Natural Resources and Conservation and U.S. Bureau of Reclamation.
Date: February, 1977
Title: Supplemental water for the Milk River.
Citation: Helena, MT: maps, figures, tables, 146 pages.
Shelfnote: DNRC-WR.3.A.4. Code: 11030
Abstract:

Author: U.S. Bureau of Reclamation.
Date: August, 1976
Title: Supplemental water supply report - Milk River Basin.
Citation: Billings, MT: 7 pages plus tables.
Shelfnote: DNRC-WR.3.A.4. Code: 11031
Abstract:

Author: Wright Water Engineers.
Date: September, 1982
Title: Summary report on a water protection strategy for Montana-Missouri River Basin.
Citation: Helena, Mt.: Water Resources Division, Dept. of Natural Resources and Conservation, 41 p., summary report for presentation to the Montana Legislature
Shelfnote: DNRC. WR. 3.A.1. (C.2). Code: 12006
Abstract:

Author: U.S. Bureau of Reclamation, Region 6.
Date: October, 1968
Title: Report on Mitchell Unit, South Dakota, James Division Missouri River Basin project.
Citation: Huron, SD.:Missouri-Oahe projects office, 85 p.
Shelfnote: DNRC.WR 3.A.2. Code: 12014
Abstract:

Author: Osterberg, David.
Date: January, 1982
Title: The cost to Iowa of diverting water from the Missouri River.
Citation: Iowa City, Iowa:The Institute of Urban and Regional Research, the University of Iowa, 140 p., project commissioned by the Legislative Extended Assistance Group, tables, figures.
Shelfnote: DNRC.WR. 3.A.2. Code: 12015
Abstract:

Author: Montana Dept. of Natural Resources and Conservation, Water Resource Division.
Date: January, 1977
Title: The future of the Yellowstone River...?.
Citation: Helena MT.:107 p., with appendixes, resource maps and tables, publi survey report.
Shelfnote: DNRC.WR.3.B.1 Code: 12034
Abstract:

Author: Big Horn Conservation District.
Date: March 3, 1983
Title: A general plan for the development of Big Horn Conservation District's reserved water.
Citation: Hardin MT.:technical assistance provided by Montana Dept. of Natura Resources and Conservation Water Development Bureau, and John Sanders, Engineer, maps, 125 p.
Shelfnote: DNRC.WR.3.B.1.c. Code: 10401
Abstract:

Author: CH2M-HILL.
Date: 1977
Title: Prefeasibility study Tongue and Little Bighorn River basin project summary.
Citation: Cheyenne WY.:Governor's interdepartmental water conference-State of Wyoming, maps, tables, 9 p.
Shelfnote: DNRC.WR.3.B.3. Code: 10438
Abstract:

Author: CH2M-Hill.
Date: 1977
Title: Prefeasibilty study Tongue and Little Bighorn River basin project.
Citation: Cheyenne WY.:Governor's Interdepartmental Water Conference-State of Wyoming, maps figures, 78 p.
Shelfnote: DNRC.WR.3.B.3. Code: 10439
Abstract:

Author: British Columbia Hydro and Power Authority, System Engineering Division.
Date: October, 1977
Title: Kootenay River Diversion, preliminary assessment report.
Citation: British Columbia:maps, tables, approx. 125 pp.
Shelfnote: DNRC. EN 7.C.4.A.1. Code: 10840
Abstract:

Author: Newbold, Warren, editor.
Date: February, 1982
Title: Surface water supply including instream water use, technical paper.
Citation: Omaha, NE:Missouri Basin States Association, tables, figures, 170 pp.
Shelfnote: DNRC WR 2.D.2.D. Code: 13103
Abstract:

Author: Hartman, L.M., and Don Seastone.
Date: 1970
Title: Water transfers: economic efficiency and alternative institutions.
Citation: Washington, DC: Resources for the Future, Inc., ISBN 8018-1146-5, tables, figures, 127pp.
Shelfnote: DNRC WR D.3.C. Code: 13145
Abstract:

Author: Missouri Basin States Association.
Date: May 12., 1983
Title: An issue analysis on out-of-basin water transfer.
Citation: Omaho, NE:figures, 69pp.
Shelfnote: DNRC WR D.3.E.3. Code: 13146
Abstract:

Author: Mann, Dean E.
Date: March., 1972
Title: A political and institutional analysis of interbasin water transfers.
Citation: Washington, DC: National Water Commission, tables, 158pp.
Shelfnote: DNRC WR D.3.E.3. Code: 13147
Abstract:

Author: Gould, George.
Date: January., 1979
Title: State water law in the West: implications for energy development.
Citation: Los Alamos, NM: University of California, Los Alamos Scientific Laboratory, LA-7588-MS, informal report, 471pp.
Shelfnote: DNRC WR 1.B. Code: 13151
Abstract:

Author: Quin, Frank.
Date: 1968
Title: Water transfers: must the American West be won again?
Citation: New York, NY: American Geographical Society, reprinted from the Geographical Review, volume LVIII, No. 1, 24pp.
Shelfnote: DNRC WR 1.B. Code: 13152
Abstract:

Author: Mann, Dean E.
Date: March., 1972
Title: Interbasin transfers: a political and institutional analysis.
Citation: Arlington, VA: National Water Commission, Social and Behavioral Sciences Division, tables, 160pp.
Shelfnote: DNRC WR 1.B. Code: 13153
Abstract:

Author: Luce, Charles F., et al.
Date: June 28., 1973
Title: New directions in U.S. water policy: summary, conclusions, and recommendations, from the final report of the National Water Commission.
Citation: Arlington, VA: National Water Commission, figures, 197pp.
Shelfnote: DNRC WR D.1. Code: 13156
Abstract:

Author: Governor's Commission to Review California Water Rights Law.
Date: December, 1978
Title: Final Report of the Governor's Commission to Review California Wate Rights Law.
Citation: Sacramento, CA: Office of the Governor. 264 pp.
Shelfnote: DNRC WR 1.C.3.B. Code: 15270
Abstract:

Author: University of California, California Water Resources Center.
Date: December, 1985
Title: California water resources center annual report, July 1, 1984 - September 30, 1985.
Citation: Davis, CA: Report no. 64, ISSN 0575-4968, 97 pp.
Shelfnote: DNRC WR 1.C.3.B. Code: 15275
Abstract:

Author: University of California, California Water Resources Center.
Date: December, 1984
Title: California water resources center annual report, July 1, 1983 - September 30, 1984.
Citation: Davis, CA: Report No. 61, ISSN 0575-4968, 91 pp.
Shelfnote: DNRC WR 1.C.3.B. Code: 15277
Abstract:

Author: Idaho Water Resource Board.
Date: July, 1972
Title: State of Idaho interim state water plan, preliminary report.
Citation: Boise, ID: tables, figures and maps, 265 pp.
Shelfnote: DNRC WR 1.C.3.B. Code: 15290
Abstract:

Author: Hofmann, Catherine A., Jerry Wegman, and Faramarz Damanpour.
Date: August, 1980
Title: Legal, financial, and economic analysis of a water supply bank in Idaho.
Citation: Moscow, ID: University of Idaho, Idaho Water and Energy Resources Research Institute. Research Technical Completion Report, Project B-047-IDA, submitted ot the Office of Water Research and Technology, U.S. Dept. of the Interior. 142 pp.
Shelfnote: DNRC 1.C.3.B. Code: 15298
Abstract:

Author: Nebraska Natural Resource Commission.
Date: December, 1981
Title: Summary of the Nebraska research for the six state high plains, Ogallala aquifer study.
Citation: Lincoln, NE:tables, illus., 40 pp.
Shelfnote: DNRC WR 2.B.3. Code: 11944
Abstract:

Author: Fahy, Vernon, and Robert Dorothy.
Date: November, 1982
Title: Southwest pipeline project, summary report.
Citation: Bismarck, ND: North Dakota State Water Commission. 19 pp. plus map.
Shelfnote: DNRC WR 1.C.3.B. Code: 15338
Abstract:

Author: U.S. Water Resources Council.
Date: May., 1980
Title: A summary of the states title III planning activities for fiscal year 1980.
Citation: Washington, DC, figures, tables, 131pp.
Shelfnote: DNRC WR 1.C. Code: 13245
Abstract:

Author: Pacific Northwest River Basins Commission, Hydrology and Hydraulics Committee.
Date: June, 1976
Title: River mile index, Clark Fork-Pend Oreille River, Washington, Idaho, Montana, British Columbia.
Citation: Map, indices, 53 pp.
Shelfnote: DNRC WR 3.C.1. Code: 11096
Abstract:

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Marias River S tributaries, Montana

S
333.91 United States. Army. Corps of
U7rm Engineers. Omaha District.
1973 Marias River S tributaries,
Montana : review report. -- Omaha,
Neb. : Dept of the Army, U.S. Army
Engineer District, Omaha, Corps of
Engineers, [1973]
ii, 25, [3] p. : 1 map (folt.) ; 27
cm.
Cover title.
"June 1973."

1. Floods--Montana--Marias River Watershed.
2. Water resources development--Montana--
Marias River Watershed. I. Title.

333.91 [19]

Mt wln83-21439

DOCUMENTS MARIAS RIVER BASIN.

S
628.16 Montana. Water Quality Bureau.
W3wmrb Water quality and management plan : Marias River Basin, Montana / prepared by W. H. Garvin and M. K. Botz. -- Helena, Montana : Water Quality Bureau, Environmental Sciences Division, Montana Department of Health and Environmental Sciences, 1975.
vii, 118 p. : ill. : maps (in pocket) ; 29 cm.

1. Marias River Basin. 2. Water quality management. 3. Water quality--Montana--Marias River Basin. I. Garvin, W H II. Botz, Maxwell K III. Title.

76-046 628.16

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72-1: U.S. Army Corps of Engineers.
J.Doc. Marias River, Mont. : letter from the secre-
191 tary of war transmitting report from the chief of engineers on Marias River, Mont., covering navigation, flood control, power development and irrigation. -- Washington : U.S. Govt. Print. Off., 1932.
v 91 p. ; 23 cm. -- (U.S. 72d Cong., 1st sess. House. Doc. 191)
1. Marias River, Mont.

MARIAS RIVER (MONT.)--TEMPERATURE

S
551.483 Gardner, William M.
F21fm Instream flow requirements for the
1983 Marias River fishery downstream of Tiber Dam / by William M. Gardner and Rodney K. Berg. -- Great Falls? Mont. : Montana Dept. of Fish, Wildlife and Parks, Ecological Services Division, [1983]
iv, 82 p. : ill. ; 23 cm.
"... sponsored by Bureau of Land Management, U.S. Department of Interior, Lewistown District Office."
"September 1983."
Bibliography: p. 64-66.
1. Fish populations--Montana--Marias River.
2. Aquatic invertebrates--Montana--Marias

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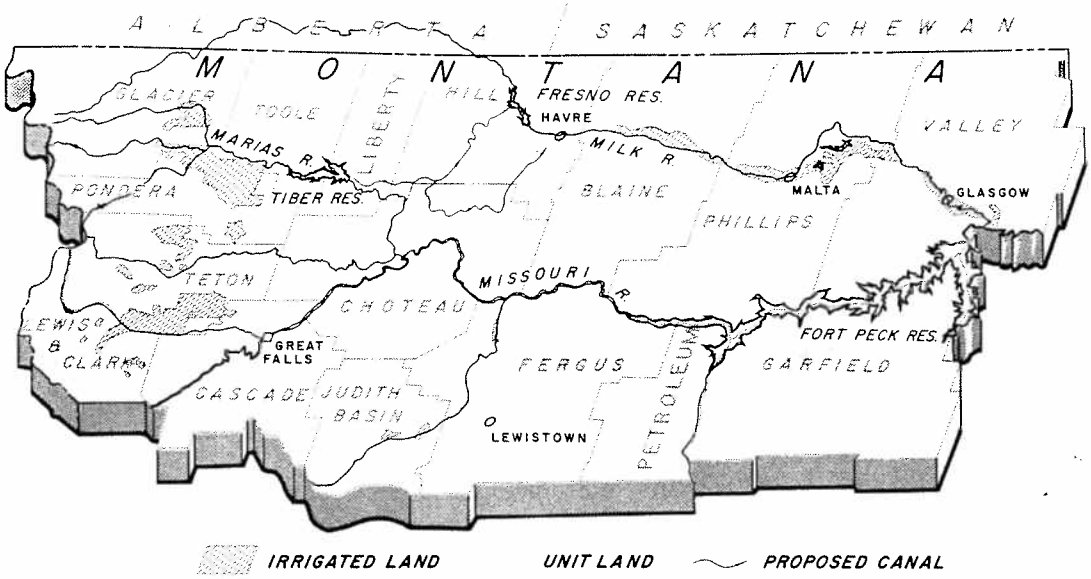

Marias-Milk Unit is a key project to further water and land resource development in a vast agricultural area of north-central Montana. This area, as shown above, extends from the Continental Divide east to Fort Peck Dam and from the Missouri River north to the Canadian border, and is locally called the "Hi-Line."

Marias-Milk Unit

MILK DIVISION
MISSOURI RIVER BASIN PROJECT
MONTANA

U.S. DEPARTMENT OF
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AUGUST 1970

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MILK RIVER BASIN, MONTANA

PREPARED BY
D. BLOOM AND M. K. BOTZ
WATER QUALITY BUREAU
ENVIRONMENTAL SCIENCES DIVISION
MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

DECEMBER, 1974

Approved:

D. G. Willems, P.E., Chief
Water Quality Bureau
Environmental Sciences Division
Montana Department of Health and
Environmental Sciences
Helena, Montana 59601

John S. Anderson, M.D., Director
Montana Department of Health and
Environmental Sciences
Helena, Montana 59601

John A. Green, Regional Administration
Environmental Protection Agency, Region VIII
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Denver, Colorado 80203

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U.S. INTERIOR DEPARTMENT. BUREAU OF RECLAMATION.
Records, 1910-1923. 3 reels, positive.
"Project Histories and Reports of Reclamation Bureau Projects". Blackfeet (Indian) Project, Montana; project history, operational materials, and reports, 1910-1923.

Originals in the National Archives.

MILK RIVER, MONTANA

Jones, B. E.
Water supply of St. Mary and Milk Rivers, 1898-1917 / by B. E. Jones and R. J. Burley. -- Washington, D.C. : Government Printing Office, 1920.
590 p., [10] leaves of plates : ill., maps, charts ; 23 cm. -- (United States Geological Survey. Water-supply paper ; no. 491)
15 charts and 1 map in pocket(map in Map Collection)
Includes index.
Bound With: Water-supply paper no. 518.
1. Milk River, Montana. 2. St. Mary River, Montana. I. Burley, R. J. II. Title. III. Series.

MILK RIVER

United States. War Dept.
Milk River, Montana : letter from the Secretary of War transmitting ... -- Washington, D.C. : Government Printing Office, 1933.
vii, 257 p., [1] leaf of plate (fold.) : map ; 24 cm. -- (United States. 73d Congress, 1st Session. House Document ; no. 88)

1. Milk River. I. Title. II. Series.

MILK RIVER AGENCY (MONT.)--ARCHIVES

MF
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no. 833
reels 1-3

Records of the Montana Superintendency of Indian Affairs, 1867-1873. -- Micro ed. -- Washington, D.C. : The National Archives, 1970.
3 microfilm reels ; 35 mm. -- (National Archives microfilm publications. Microcopy ; no. 833:1-3)
"The records reproduced ... are from Records of the Bureau of Indian Affairs Record Group 75 ..."
For guide and contents, See REF/970.1/In3r/1972.
1. Blackfeet Agency (Mont.)--Archives. 2. Flathead Agency (Mont.)--Archives. 3. Crow Agency (Mont.)--Archives. 4. Lemhi Agency (Idaho)--Archives. 5. Milk

(Continued on next card)

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Un 3 Lm

MILK RIVER AREA.
U. S. Bureau of Land Management.
Land planning and classification report [of the] public domain lands [in the] Milk river area, Montana. Denver, Colo., Dept. of the Interior. Bureau of land management, area 3, March 1960.

163, 21p. maps. tables.

Maps contained in back cover pocket.

RESTRICTED USE.

MILK RIVER BASIN

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Montana. Water Resources Division.
Supplemental water for the Milk River / Montana Department of Natural Resources and Conservation, Water Resources Division, U. S. Department of the Interior, Bureau of Reclamation. -- Helena, Montana : The Division, 1977.
iv, 146 p. : charts : maps ; 28 cm.
Includes bibliography and appendices.

1. Water-supply - Montana - Milk River Basin. 2. Water resources development - Milk River Basin. 3. Milk River Basin. I. United States. Bureau of Reclamation. II. Title.

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Milk river irrigation project.

Linfield, F. B.
Settlement development problems of the Milk River, Sun River and Lower Yellowstone irrigation projects, Montana. (Reclamation Era, April,1928)

MILK RIVER IRRIGATION PROJECT, MONTANA

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Un33m

United States, Department of Health, Education and Welfare. Public Health Service.
Mosquito investigations, Milk River Irrigation Project, Montana with particular reference to causes of mosquito production in a long-established irrigated area characterized by flat topography and heavy soils : first progress report / U. S. Department of Health, Education, and Welfare, Public Health Service. -- [s.l. : s.n.], 1953.
x, 53 p. : ill., maps ; 28 cm.
1. Milk River Irrigation Project, Montana. 2. Mosquitoes--Control. I. Title.

631.1
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MILK RIVER LAND ACQUISITION PROJECT.
U.S. Agriculture dept. Resettlement administration. Land utilization division. Land use planning section.
Public finance aspects of the Milk River land acquisition project (LA-MT-2), Phillips county, Montana. Land use planning pub. no. 18-a, Washington, D.C., April 1937.
96 p. maps.

MILK RIVER (MONT. AND ALTA.)

PAM
-1046-

Foss, W. L.
St. Mary-Milk Rivers project progress report / by W. L. Foss. -- Regina, Sask. : Prairie Farm Rehabilitation Brache, Dominion Department of Agriculture, [1949]
1 v. (various pagings) : ill, maps ; 33 cm.
Cover title.
"December 1949".

JA6P2832 WLN88-75679

MILK RIVER (MONT. AND ALTA.)

627.8
R29

Report on further storage and irrigation works required to utilize fully Canada's share of international streams in southern Alberta. -- Ottawa, Ont. : St. Mary and Milk Rivers Water Development Committee, 1942.
vii, 119 p. : charts, map ; 25 cm.
Map folded in pocket.

JLMH5438 wln89-318911

Milk River, Montana : letter from the Secretary of War transmitting ...

Serial Set
9753

United States. War Dept.
Milk River, Montana : letter from the Secretary of War transmitting ... -- Washington, D.C. : Government Printing Office, 1933.
vii, 257 p., [1] leaf of plate (fold.) : map ; 24 cm. -- (United States. 73d Congress, 1st Session. House Document ; no. 88)

1. Milk River. I. Title. II. Series.

MILK RIVER BASIN.

S
628.16
W291n

Montana. Water Quality Bureau.
Water quality inventory and management plan, Milk River Basin, Montana / Water Quality Bureau, prepared by D. Bloom and M.K. Botz. -- Helena, Mont. : The Bureau, 1974.
vii, 119 p. : maps (in pocket) ; 29 cm.

1. Milk River Basin. 2. Water quality management. 3. Water quality--Montana--Milk River Basin. I. Bloom, Del. II. Botz, Maxwell K. III. Title.

75-054 628.16

333.914
M59b

Milk River Irrigation Districts.
Before the Federal Energy Regulatory Commission, application for license, major project, existing dam, project no. 7022-000, Tiber Dam Power Project, Tiber Dam, Montana / Malta Irrigation District, ... [et al.], [known collectively as the Milk River Irrigation Districts]. -- [S.l. : The Author], 1983.
ca. 400 p. and leaves : maps ; 28 cm.
Cover title.
"(Competing with Lake Elwell Hydroelectric Project) (Project no. 6432)"

(continued on next card)

MILK RIVER IRRIGATION PROJECT.

614.43
Un33m

Communicable Disease Center (U.S.). Water Projects Section. Mitchell Field Station.
First progress report, mosquito investigations, Milk River irrigation project, Montana : with particular reference to causes of mosquito production in a long-established irrigated area characterized by flat topography and heaveysoils / prepared by Mitchell Field Station, Water Projects Section ; in cooperation with Montana State Board of Health and Montana Agricultural Experiment Station. -- Salt Lake City : The Station, [1953]

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United States. Soil Conservation Service.
Milk River-Northern Montana project : annual report [1939] / Soil Conservation Service, Farm Security Administration, United States Department of Agriculture. -- [S.l. : The Department?,] 1940.
[3], 64 leaves : charts, maps ; 27 cm.
Insert: The American Legion health plunge : north Montana's recreation center (folder, 6 p.)
Cover title: Milk River Northern Montana land utilization projects annual report, 1939.
"H. L. Lantz, Manager"

1. Land use--Blaine County (Mont.) 2. Milk River Region (Mont.) 3. Range management--Milk River Region (Mont.) 4. Land use--Valley County (Mont.) 5. Land use--Phillips County (Mont.) I. United States. Farm Security Administration. II. Title.

Milk River Project. ✓
see also
Missouri River Basin Project. ✓
Missouri-Souris Project.
Sun River Project.
Yellowstone River Pumping Units. ✓

MILK RIVER PROJECT. DODSON PUMPING UNIT.

Missouri River Basin Studies.
A report on fish and wildlife resources in relation to the water development plan for the Dodson Pumping Unit, Milk River Project, Milk River, Missouri Headwaters Subbasin. -- Billings, Mont. : The Author, 1947.
7, [1] leaves : 1 map (fold.) ; 27 cm.

1. Fishes--Milk River (Alta. and Mont.) 2. Milk River Project. Dodson Pumping Unit. 3. Wildlife Conservation--Milk River (Alta. and Mont.) 4. Water Resources Development--Milk River (Alta. and Mont.). I. Title.

MILK RIVER REGION (MONT.)

PAM
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United States. Farm Security Administration.
Progress report of the U. S. Department of Agriculture, Farm Security Administration : Milk River - Northern Montana project. -- [S.l. : The Administration, 193-?]
18 leaves ; 27 cm.
"H. L. Lantz, Project Manager"
Cover title: Progress report, Milk River Northern Montana project : land utilization, resettlement.

1. Milk River Region (Mont.) 2. Land use--Milk River Region (Mont.) 3. Irrigation--Milk River Region (Mont.) 4. Range management--Milk River Region (Mont.) I. Title.

MILK RIVER REGION (MONT.)

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United States. Soil Conservation Service.
Milk River-Northern Montana project : annual report [1939] / Soil Conservation Service, Farm Security Administration, United States Department of Agriculture. -- [S.l. : The Department?,] 1940.
[3], 64 leaves : charts, maps ; 27 cm.
Insert: The American Legion health plunge : north Montana's recreation center (folder, 6 p.)
Cover title: Milk River Northern Montana land utilization projects annual report, 1939.
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1. Land use--Blaine County (Mont.) 2. Milk River Region (Mont.) 3. Range management--Milk River Region (Mont.) 4. Land use--Valley County (Mont.) 5. Land use--Phillips County (Mont.) I. United States. Farm Security Administration. II. Title.

MILK RIVER VALLEY (MONT.)--ANTIQUITIES.

PAM
-2681-

Brumley, John H.
The Wahkpa Chu'gn archaeological site / prepared by John H. Brumley ; sketches by Lind Rayner ; photos by Miller Studio and John H. Brumley. -- Havre, MT : H. Earl Clack Museum, c1976.
28 p. : ill. ; 23 cm.
Cover title.
Bibliography: p. 28-[29].
1. Milk River Valley (Mont.)--Antiquities. 2. Montana--Antiquities. 3. Indians of North America--Antiquities. I. H. Earl Clack Museum. II. Title.

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MILK RIVER VALLEY (MONT.)--ANTIQUITIES.

PAM
-3218-

Dolman, Arthur.
Fort Peck-Havre transmission line study environmental report : environmental report : [draft] / prepared for, Western Area Power Administration ; prepared by, Arthur Dolman. -- Havre, Mont. : The Author, [1981]
iii, 58 p. ; 28 cm.
At the bottom of each page: "Draft 4-13-81".

JA6P2844

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MILK RIVER VALLEY (MONT.)--BIOGRAPHY

978.61
AL56t

Allison, Janet S.
Trial and triumph : 101 years in North Central Montana / by Janet S. Allison ; art work by Beth Mundt. -- [S.l.] : North Central Montana CowBelles, c1968 (Chinook, Mont. : Chinook Opinion)
iv, 211 (i.e. 236), [12] p. : ill., maps ; 21 cm.
Includes bibliographical references and index.
1. Montana, Northcentral--Biography. 2. Montana, Northcentral--History. 3. Milk River Valley (Mont.)--Biography. 4. Milk River Valley (Mont.)--History. I. North Central Montana CowBelles. II. Title.

MILK RIVER VALLEY, MONTANA--DESCRIPTION AND TRAVEL

917.861
Sa24

St. Paul, Minneapolis & Manitoba Railway.
The Great reservation. -- [s.l. : s.n., 1889?]
48 p., [1] leaf of plate(fold.) : ill., maps ; 22 cm.

"3024 miles of steel track in Minnesota, Dakota and Montana. Direct and principal line from St. Paul, Minneapolis, Duluth and the east to Chinook(Dawes), Benton, Great Falls, Helena, Butte and the Pacific Coast"
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1. Milk River Valley, Montana--Description and Travel. I. Title.

MILK RIVER VALLEY (MONT.)--HISTORY

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Allison, Janet S.
Trial and triumph : 101 years in North Central Montana / by Janet S. Allison ; art work by Beth Mundt. -- [S.l.] : North Central Montana CowBelles, c1968 (Chinook, Mont. : Chinook Opinion)
iv, 211 (i.e. 236), [12] p. : ill., maps ; 21 cm.
Includes bibliographical references and index.
1. Montana, Northcentral--Biography. 2. Montana, Northcentral--History. 3. Milk River Valley (Mont.)--Biography. 4. Milk River Valley (Mont.)--History. I. North Central Montana CowBelles. II. Title.

MILK RIVER VALLEY, MONTANA--HISTORY

MF
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Gunderson, Carl Martin
The History of the Milk River Valley / by Carl Martin Gunderson. -- [Helena, Montana : Montana Historical Society, 195-?]
1 microfilm reel ; 35 mm.

Filmed with: Damaree, Barbara Geraldine. Disciples of Christ in Montana, 1863-1900.--Hakola, John W. The Development of a policy towards irrigation in Montana to 1908.--Biggar, Hugh J. The Development of the Lower Flathead Valley.--Crockett, Jean Cowan. The Memoirs of William T. Cowan pioneer merchand of northern Montana.--Kelson, Benjamin. The Jews of Montana.
Thesis(MA)--Montana State University(1951)
1. Milk River Valley, Montana--History. I. Title.

MILK RIVER VALLEY, MONTANA - HISTORY

978.6
M77b

Montana backgrounds : homestead days in Northeast Montana / by members of the Glasgow Montana Backgrounds, an extension course given under the auspices of Northern Montana College, 1953.
159 ℓ. photo. of typescript ; 29 cm.

1. Milk River Valley, Montana - History. 2. Valley County, Montana - History.

MILK RIVER WATERSHED (MONT. AND ALTA.)

333.95
R29 A report on fish and wildlife resources affected by the Marias-Milk unit, Montana. -- Twin Cities, Minn. : United States Dept. of the Interior, Fish and Wildlife Service, Bureau of Sport Fisheries and Wildlife, North Central Region, [1969]
42, [4] leaves : ill., maps ; 27 cm.
Cover title: Marias-Milk unit, Montana : a report on fish and wildlife resources.
"October 1969".

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MILK RIVER WATERSHED (MONT. AND ALTA.)

333.95
R29m Report on Marias-Milk unit, Milk Division, Missouri Basin Project, Montana. -- [Billings, Mont.] : U.S. Department of the Interior, Bureau of Reclamation, [1970]
18, x, 117 leaves : ill., maps ; 27 cm.
Cover title.
"Includes summary report and feasibility report"--Cover.
"August 1970".

ILCN5840 WLN88-113971

BEFORE THE

FEDERAL ENERGY REGULATORY COMMISSION

APPLICATION FOR LICENSE
MAJOR PROJECT - EXISTING DAM

PROJECT NO. 7022-000

TIBER DAM POWER PROJECT

TIBER DAM, MONTANA

Tiber Dam Project + Malta Irrigation Project [et al] known collectively as Milk River Irrigation District

MALTA IRRIGATION DISTRICT
GLASGOW IRRIGATION DISTRICT
DODSON IRRIGATION DISTRICT
ZURICH IRRIGATION DISTRICT
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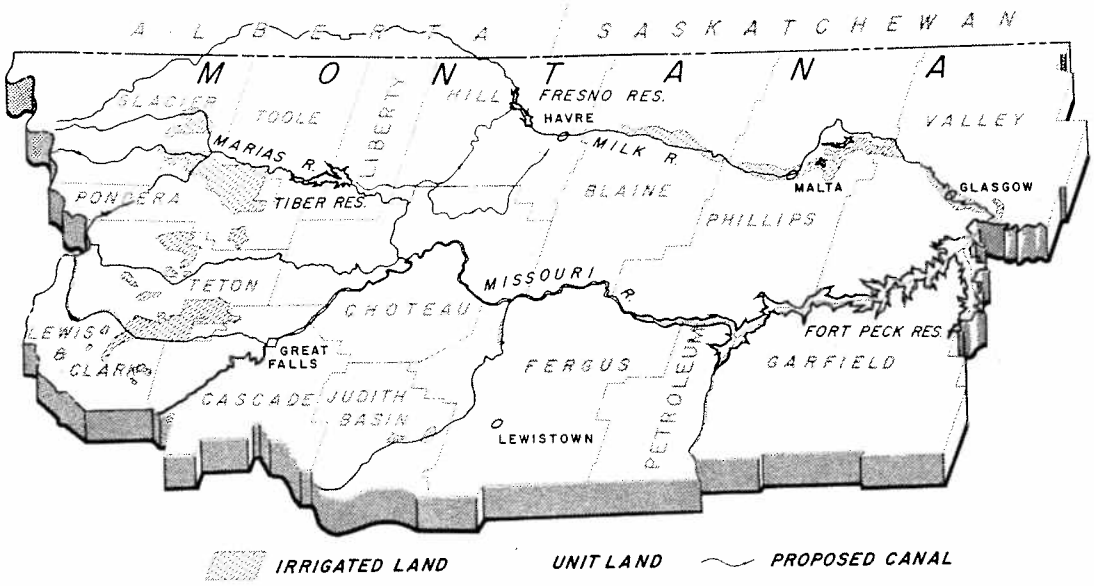
(COMPETING WITH LAKE ELWELL HYDROELECTRIC PROJECT)

(PROJECT NO. 6432)

Summary Report on



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Marias-Milk Unit

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MONTANA

U.S. DEPARTMENT OF
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Walter J. Hickel, Secretary

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Ellis L. Armstrong, Commissioner

Harold E. Aldrich, Regional Director
Region 6, Billings, Montana

AUGUST 1970

Feasibility Report on

Marias-Milk Unit

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Milk River valley
Chinook Opnion 30 April 1891 p. 1
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Rocky Mt Husbandman June 9, 1898 p. 1
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Milk River valley

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~~IRRIGATION - MILK RIVER~~

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Milk River irrigation project
see also
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Milk River valley - Irrigation

Milk River Irrigation Project

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~~MILK RIVER IRRIGATION.~~

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Milk River area

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Milk river

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Long-time residents recall Milk river flood of 1899.

Milk River agency

Bozeman Avant Courier, Oct. 24, 1889, p. 3
"Matt's meanderings"

Milk River area

Rocky Mt Husbandman Sept. 1, 1892 2/2

Sept. 2, 1897 2/2

Milk river

(Malta) Phillips co. news, Apr. 7, 1955, p. 1:
Long-time residents recall Milk river flood of 1899.

Milk River agency

Bozeman Avant Courier, Oct. 24, 1889, p. 3
"Matt's meanderings"

FRESNO TEAM — Men and horses worked together in the early construction of the Milk River Irrigation Project. The photographer's caption for this photo, taken May 7, 1911, was short: "Fear Bear fresno team. He likes to work on the ditch." Fear Bear was an Indian from one of northern Montana's reservations. Bureau of Reclamation photo.

Milk River Plan Authorized 60 Years Ago . . .

Pioneer Irrigation Project

Sixty years ago, on March 14, 1903, authorization was given for the Bureau of Reclamation's pioneer Milk River irrigation project in northern Montana.

Actually, major irrigation in the upper valley of the Milk River began in 1889, according to M. W. Drazich, Great Falls, project manager for the Upper Missouri projects office of the Bureau of Reclamation.

However, a stabilized program was not possible until the reclamation plan was put into effect.

T. B. Burns, a former Gallatin Valley irrigation farmer, obtained a water right on the Milk in 1889 and the following year he and some neighbors built a brush and rock dam on the Milk near the present Fort Belknap diversion dam.

But it soon became apparent to these water users that the Milk was an intermittent stream. Water shortages often occurred.

When the Reclamation Bureau began its plans, it considered storage and transportation of St. Mary River water to supplement the erratic flows of the Milk. Before any St. Mary water was used however, the Milk River valley lands were being served by the federal project.

The first delivery of water was in 1911. Dodson diversion dam and the Dodson south canal were built in 1908 and 1909. In 1911, farmers irrigated 1,708 acres and produced crops valued at $22,282. Fifty years later Milk River project users irrigated 87,590 acres and produced crops with a gross value of $3,970,089.

Later a storage reservoir was built at Sherburne Lake, which became a part of Glacier Park, and St. Mary River water was diverted to the North Fork of the Milk River through a 29-mile canal, thus supplementing the river's natural flow and that of other streams emptying into the main stream. A treaty with Canada permits transportation of St. Mary water in the Milk River channel 216 miles eastward across Alberta before it returns to Montana.

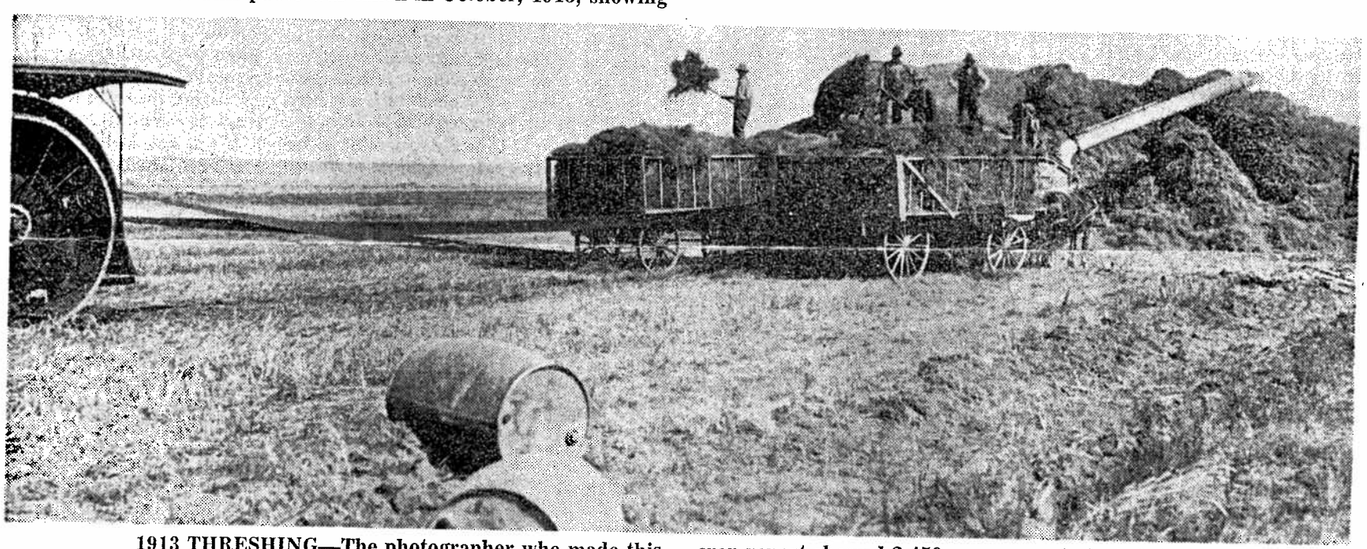
First diversion of St. Mary water was in 1916. Sherburne Lake water was available in 1919.

It required six to 10 days for water to travel the 325 miles from the outlet of St. Mary canal to the point where diverted water first began to serve Milk River project lands. To control St. Mary storage, Fresno dam and its storage and regulating reservoir were constructed from 1937 to 1939 on the Milk, 14 miles west of Havre.

Milk River project facilities now in operation include Sherburne Lake, Fresno and Nelson storage dams, with capacity of 260,100 acre-feet; St. Mary, Swift

(Continued on page 6

VANDALIA SOUTH CANAL—Construction began on the Vandalia diversion dam and south canal in April, 1913. This photo was taken in October, 1913, showing an elevating grader and dump wagons working on the south canal. Bureau of Reclamation photo.



1913 THRESHING—The photographer who made this view in October, 1913, prepared this caption: "Threshing flax on John Bridger's ranch, near Dodson. Raised by irrigation on Dodson north canal. Exceptional yield; quantity not known." The Milk River Project 1913 crop report showed 2,459 acres were irrigated, including 178 acres of flax, 215 of alfalfa, 35 of barley, 3 of sugar beets, 597 of blue steam hay, 26 of grain hay, 260 of oats, 4 of potatoes, 2 of gardens and 1,139 of wheat. Bureau of Reclamation photo.

Pioneer Irrigation Project

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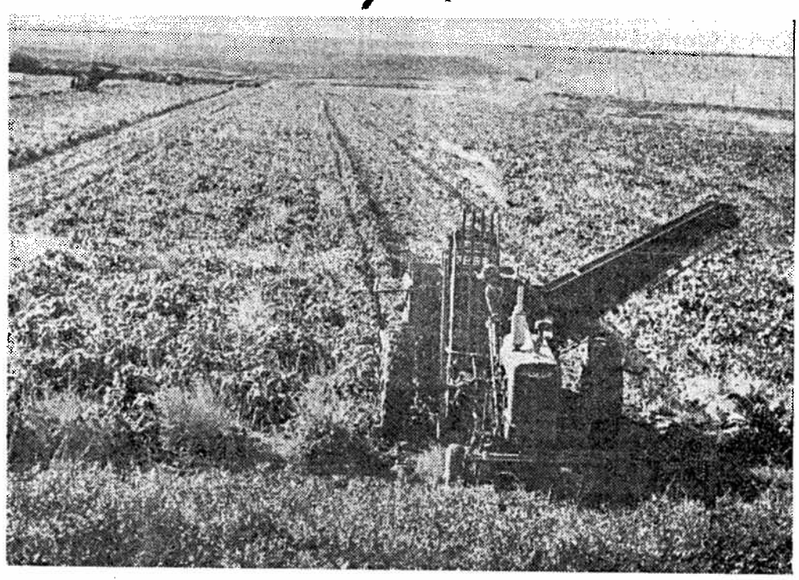
Current, Dodson and Vandalia diversion dams; 200 miles of canals, 249 miles of laterals, 185 miles of drains and a pumping plant at Dodson.

Today there are 724 irrigation farms on the Milk River project. The farms' population is more than 3,000. An additional 15,000 persons live in the 15 towns in and around the project area.

All irrigation facilities except the storage system are operated and maintained by water users. From 1911 through 1961, water users produced irrigated crops valued at $90,467,349, more than 12 times the net project cost allocated for repayment. Water users have repaid to the federal government $1,799,068 of the $7,540,549 project cost obligations.

In addition, federal tax revenues from Milk River project water users since 1940 have amounted to more than $13.6 million.

Other benefits of the project include flood control, through regulation of Fresno reservoir; recreation on Sherburne, Fresno and Nelson reservoirs, and municipal water supplies for Havre and Harlem.



MODERN SCENE — Horses have disappeared from the farming scene in the Milk River Valley today. This is a scene of mechanized sugar beet harvest operations near Chinook. Tribune photo.

VOLUME XXII. Chinook Opinion CHINOOK, CHOUTEAU COUNTY, MONTANA, THURSDAY, NOV. 2, 1911.

FAVOR SIGNING WATER CONTRACTS

Ranchers Favor Fixing Up Necessary Water Contracts and Putting Responsibility of Commencing Work Up to the Government Officials at Once.

A satisfactory meeting of water users was held here Saturday afternoon at the New Theatre to consider the matter of the vested right water contracts. The meeting was attended by Congressman Pray, Supervising Engineer Savage, Prof. Thos. Shaw and Attorney Gilman of St. Paul as well as the members of the various ditch companies and water associations. Senator Dixon was unable to get here from Bozeman where he delivered an address Friday. The meeting developed a marked sentiment in favor of signing the contracts and steps were taken to secure the necessary signatures.

W. P. Davidson was chosen chairman of the meeting, when it convened and the work of outlining the situation was at once taken up. Congressman Pray explained the necessity of prompt action if the water useres wished to secure the water from St. Mary's and did not want to see the four million dollars set aside for this project diverted to other places. He explained that a request had been made of Secretary Fisher by other western projects that the funds from Montana projects be diverted to theirs and that that was likely to be the result if it was not shown that the people in the Milk River were ready for work to commence. He repeated his offer that if the water users here would sign the vested right contracts by which they are to receive the water from St. Mary's and distribute it themselves thru their own ditches and pay only their pro rata share of the St. Mary construction, he and Senator Dixon would receive the contracts and hold them in escrow until the government would declare their readiness to proceed with construction work. He advised the land owners to forget the past differences and troubles and sign the contracts and force the government to act. Other talks were made along the same lines by Mr. Gilman, who was with one of the committees that went to Washington last winter, and by Prof. Shaw, Engineer Savage answered many questions as to the work at St. Mary's and the necessary procedure to satisfy the requirements of the secretary of the interior. Senator Everett touched on the points that were considered or feared by many to be causing objection to the signing the contracts by the framers of this section, satisfaction with the sufficiency of their present water rights and fear that the additional water supply was not worth its cost. Just how widespread that feeling has been no one knew and it was the purpose of the meeting to ascertain whether it would be possible to secure the requisite number of signatures. Senator Everett was right to the point of the question and declared that no one at present had a water right of any value in view of the fact of the Indian decree giving the Belknap reservation prior rights on all the flow of the streams in this section and of the probability that the extensive cultivation of land on the bench and dry coulees by dry farmers will in the future materially lessen the run-off into the streams and the flow in the rivers. Expressions of opinion were called from representatives of different ditch companies and an adjournment was later taken and the members of the ditch companies requested to get together and take a vote on the sentiment of their companies and report. As far as could be learned by these methods, the views of Mr. Everett and the Harlem ditch owners that the contract should be signed at once was also the sentiment of the great majority of the land owners in the Chinook section. It was accordingly aggreed to appoint a committee of one man from each company to get the contracts signed at once so that they could be delivered to Mr. Pray by December 1.

Mr. Savage on request for information explained that it would be necessary to secure signatures to three seperate documents. First, the vested right contract which was the contract proposed by the people in this section, to do away with the necessity of adjudication, and the terms of which generally provide that the present owners of water rights in the Harlem-Chinook sections agree to pay their pro rata share of the cost of putting the water from St. Mary's into the Milk River, water to be taken out by the water users themselves in their ditches at their own expense as they now take out the waters of Milk River; second stock subscriptions to the Upper Milk River Water Users' association, the corporation which is ultimately to own the upper project when the government's expenditures have been fully repaid: third the excess land holdings contract by which those signing up under the government project agree to dispose of their irrigated land hoidings in excess of 160 acres of land by the time the project is formally declared completed and thrown open. He explained that it would also be necessary in time to take steps to get the paper water rights on record but which have never been used, cleared up to a large extent also.

The necessary blanks for these different contracts have been secured and will be placed in the hands of the committee one from each ditch company to cirulate at once among the land owners.

The feeling was optimistic at the meeting that matters were in shape now so that despite the faults that the reclamation service may have displayed in the way of delays and unnecessary expense in the past that there was going to be something done at last on this project and that the dirt would fly next year in earnest.

The committee to secure signatures to the contracts as appointed by Chairman Davidson was:

John Acher for Matheson Ditch company.

Jas. Cook for Cook Ditch company.

Thos. O'Hanlon for Paradise Ditch company.

L. V. Bogy for Belknap Ditch company.

J. L. Sprinkles for Sprinkles-Anderson Ditch company.

T. M. Everett for Harlem Ditch company.

more thoro appreciation of each other.

The expense of the movement will be borne by the Great Northern Railway company, the Panama-Pacific International Exposition company of San Francisco, and the states which are members of the Northwestern Development League and the Western Development association.

Each state will be alloted exhibit space in the cars and the governors of the states participating will be invited to be on the train during the entire trip as the guests of these states. The governors of a number of eastern states have already accepted invitations to be guests on the train while it is within the borders of their respective states, and President Wm H. Taft at Boise, October 6, 1911, publicly signified his intention of making an official call on the party while in Washington.

"The Governors' Special" will be a special train of nine cars, consisting of one baggage coach, four exhibit cars, one standard sleeper one compartment sleeper, one dining car and one observation car. It will leave St. Paul about November 28, and return about December 22, 1911. Its route will be from St. Paul, via Chicago to New York, returning via Washington and Chicago to St. Paul stopping at as many of the principal cities as possible.

Public receptions have already been arranged in many large cities and the general public everywhere is showing a wonderful amount of interest. "The Governors' Special" will convey the West's greetings to the East and attract to this portion of the United States the attention of the world.

Most of the canal carrying St. Mary's water across the divide was built with horse drawn equipment and by men with picks and shovels. Canadian farmers were waiting across the border to help themselves to the water if it was allowed to run into the Milk River. (Bureau of Reclamation photo.)

Montana's Big Ditch Proposal

It proved to be a dream but it's part of the hectic history of the Milk River irrigation project

By RICHARD and LORRAINE HANSEN

■ There are at least two points on which the grain growers of Montana's Triangle area have been in almost unanimous agreement since the days of the first homesteader.

One is that there is no finer milling wheat grown anywhere in the world than here. The other is that, given an abundance of water for their dryland acres, they could produce this grain in a quantity which would stagger the imagination.

For one brief period in the early homestead days there was high hope that this abundant supply of water might be available. That hope was never to be realized, but it undoubtedly lead to the start of what, up to that time, was one of the most ambitious irrigation projects ever proposed in Montana.

The project was to cause international repercussions, and had it been carried to its completion, it might well have changed the entire face of north central Montana and had a great effect upon the economy of the state as a whole.

The proposal was sparked in the late 1800's by the desire of settlers in the rich Milk River Valley for water to irrigate their fertile acres. Because of the unpredictable supply of the Milk River which coursed through the valley, especially in the season when major demands for irrigation water would be made, it was felt that dependence upon the river made irrigation of any sizable acreage in the valley unfeasible.

HIGH IN THE Rocky Mountains, however, on the west side of the Hudson's Bay Divide, which formed a large part of the watershed giving birth to the Milk River, the mighty St. Mary's River also has its beginnings. Like the Milk, the St. Mary makes its way up into Canada. The one difference is that the St. Mary River carries a more predictable supply of water.

Suppose, it was reasoned, that a way could be found to divert this supply of water from the St. Mary River, over the divide, and allow it to pour into the headwaters of the Milk. From there it would flow up into Canada on its circuitous journey and back into the States at the head of the Milk River Valley. By utilizing the flow of both rivers, proponents of the plan argued, there would be ample water to irrigate thousands of acres of fertile valley land.

Their arguments were persuasive enough that, in the year 1900, a party of the U.S. Geological Survey, under the direction of Gerard H. Matthes, was dispatched to Lower St. Mary's Lake where an examination of the terrain was begun.

AS A RESULT of this preliminary examination, it was found that the water might conceivably be brought to the other side of the divide by digging a canal through the Willow Creek Canyon at approximately 4460 feet of elevation. Although only a cursory examination was carried out that year, the findings were promising enough that the following year another party was sent to the scene, headed by Cyrus C. Babb, for whom the present town near Low St. Mary's Lake is named. Babb's instructions were to run a cross country line, make a preliminary design of the proposed canal, and obtain some idea of the cost of such a project.

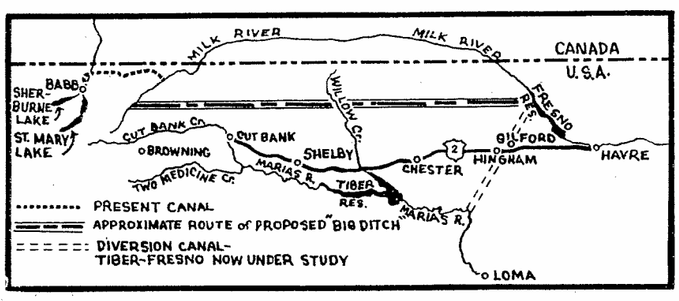
Babb's survey substantiated the earlier findings, and he proposed that the canal line would parallel the east bank of the St. Mary River for a distance of seven miles, then turn east and pass through an opening in the mountains known as Spider Lake Gap. From here it would continue in a generally northeasterly direction by way of Willow Creek Canyon for approximately 28 miles—terminating at the North Fork of the Milk River.

THE CANAL PROPER was to have a fall of 1.056 feet per mile, with a bottom width of 30 feet and a water depth of 10 feet, capable of a discharge at the head of 1380 second feet of water. Near the termination of the canal, it was found that it would be necessary to drop the water 180 feet to reach the level of the North Fork. Also, it was determined that the depth of excavation at one point would amount to 167 feet.

Considering the fact that the age of power equipment was yet to dawn, and that the tremendous amount of earth removal which would be necessitated by the project would have to be accomplished largely by horse drawn scrapers and laborers armed with picks and shovels, it began to assume proportions of no small magnitude.

But Cyrus Babb still had not completed the picture. Measurements of the discharge from St. Mary's Lakes into the river were taken and a daily average was computed. It was learned that in August, usually a peak month for irrigation water demands, the river flow decreased from 1,574 second feet at the first of the month, to 653 by months end—not quite so predictable as supposed. Since the canal was designed to carry 1380 second-feet at its head, Babb suggested storing water in order to maintain a constant supply.

FOR THIS PURPOSE, he proposed building a storage dam about three-quarters of a mile below the outlet of Lower St. Mary's Lake. The dam would be constructed of earth, have a maximum elevation of 50 feet above the river bottom and a length of 2650 feet, with a storage capacity of one quarter of a million acre-feet. Toting up the figures at this point on the cost of the storage dam, canal and other necessary items, he arrived at a grand total of $924,070.



This map shows route of the proposed Big Ditch.

At this point also, the newly created U.S. Reclamation Service took over the planning. Word of the impending project had began to circulate throughout northern Montana, and it was inevitable that it should reach the ears of farmers in neighboring Alberta.

Here, a canal had already been constructed from the point where the St. Mary River entered Canada, carrying water from the river to the Lethbridge area for use in irrigating a large tract of land.

Canadian farmers promptly let it be known in no uncertain terms what they thought of the proposal, since diversion of the St. Mary's water would virtually dry up the river during their irrigation season.

Ignoring the Canadians' claim to prior rights to the St. Mary water, the United States continued plans to divert the river, maintaining right to the water because it originated in this country.

REALIZING THAT further argument on the matter was useless, Canadian interests, with a heavy investment in their original canal, promptly began a second one, this time designed to relieve the Milk River of its water once the St. Mary's was diverted into it, and carry the water back up to the Lethbridge area.

When word of this filtered back across the border, U.S. engineers took up their transits and began searching earnestly for a way to divert the water from St. Mary's east without allowing it to enter Canada.

One of the alternate routes proposed was that the water not be allowed to enter the North Fork of the Milk. It would be carried, instead, from the termination of the canal by an inverted siphon across the stream, and then by further canals and natural drainages to the South Fork of the Milk River. It would again be carried across this stream by three large pipes, each 7 feet in diameter, and then proceed by way of a canal until it was past the ridge separating the Milk and Marias River drainages.

FROM HERE TWO courses were open. One was to continue the canal in a generally eastern direction which would approximately parallel the international boundry for a distance of some 200 miles to Sage Creek, a tributary of the lower Milk River, where it would flow down the creek to the Milk River Valley.

A second possibility, consisted of bending the line to the south from the Marias River drainage and running a canal some 26 miles to Cutbank Creek, where it would be allowed to flow to the Marias River. At a point about 100 miles down stream on the Marias, it would be taken out by a canal to Big Sandy Creek from where it would flow into the Milk River at the head of the valley.

As the news spread across north-central Montana that an irrigation canal was under consideration which would stretch from the Rockies east to the Milk River Valley, just below the Canadian border, the ears of grain-growing homesteaders in this northern section of the Triangle area began to perk up. As originally proposed—Carrying the water east by way of the Milk River—the project was of little

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Montana Big Ditch

Continued from page 8.

interest to farmers in this section, since all of the water would bypass them through Canada.

BUT NOW A DIFFERENT complexion was cast on the proposal, and they immediately lined up solidly behind the plan—envisioning laterals running south down the natural land slope from the big ditch, carrying precious water to hundreds of thousands of acres of dryland grain fields.

Newspapers of the area painted bright pictures of the benefits of the water and spoke glowingly of the country as the future garden spot of North America. Once the water came, it was predicted that this area alone would produce enough high quality milling wheat and other grain to take care of a large percentage of the nation's needs—if not all of them.

As engineers and officials considered the pros and cons of these alternate routes for the water once it was brought across the Divide, negotiations were being carried out in Washington between this country and Canada in order to try to settle the dispute over the waters from the St. Mary and Milk Rivers.

Since the water rights to these rivers had never been covered by treaty between the two countries, and in view of the sudden demand for the water on both sides of the border, there appeared little hope of a quick settlement of the dispute.

WHILE THE ENGINEERS of the project were still not in agreement as to what to do with the St. Mary water once they had it across the divide, the enthusiasm of thousands of suddenly interested homesteaders in the proposal, as well as pressure of the newspapers and elected officials in the region, helped to provide the impetus to give the go-ahead to the first part of the project—that of the canal through the divide.

On July 31, 1906, bids were opened for construction of the canal.

Only one bid was received—from the Puget Sound Bridge and Dredge Company, of Seattle, Wash., and this was rejected as being too high. In view of this, authorization was given to use the Army Engineers Corps to construct the canal.

In 1907, a government-built sawmill was placed in operation, several buildings were constructed on the site, and excavation on the canal was begun. A steam shovel was moved to the site to expedite the digging, and coal to operate this as well as the sawmill was obtained from a nearby mine. A railroad spur and telephone line were also run into the area to serve the construction camp.

Meanwhile enthusiasm and interest in the project continued to run high in the Triangle area and many new settlers poured into the country as word of the possibility of irrigation spread to eastern states. The hopes and dreams of these prairie settlers were, however, soon to be thoroughly shattered.

AS WORK ON THE canal continued, engineers on the other side of the route for the water once it reached there, began to add up their figures. The cost of the St. Mary's dam, canal, siphons and pipes and other work necessary to take the water south to the Marias River came to nearly $1.5 million.

In their studies of the alternate proposal—that of a canal paralleling the border—it was determined that the canal would need to be more than 250 miles in length. Because of this great length, it was feared much of the water would be lost through evaporation and seepage before it reached its destination.

The death blow was dealt when figures were submitted showing that the cost of this big ditch plan would come to $4.6 million.

Since these were years when $1 million was still a respectable figure in the nation's budget, lawmakers turned thumbs down on both proposals. Work on the canal across the divide was allowed to continue, however.

Thus, what had began as a reasonably uncomplicated proposal had now turned into a dilemma of no mean proportions. If the water—once it was brought across the divide were turned into the Milk River, Canadians would be waiting across the line to divert it once again into their own irrigation system. Congress had ruled out the possibility of alternate routes, but had still allowed them to cross the divide with the water.

FACED WITH THIS situation, the engineers could only propose that the water be used for irrigation on the eastern sections of the nearby Blackfoot Indian Reservation and by adjacent lands which could be easily and cheaply reached.

While north Montana's prairie settlers recognized this as the bitter ending to their hopes of getting irrigation water, farmers in the Milk River Valley were by no means ready to throw in the towel. In 1908, they formed the Lower Milk River Water Users' Association, and in February of the following year, entered into a contract with the Reclamation Service, guaranteeing repayment of the cost of an irrigation system.

By now the canal across Hudson's Bay Divide was nearing completion, and it appeared that the only ones who would benefit from it were the Blackfoot Indians.

But on May 13, 1910, a treaty with Great Britain was proclaimed which permitted the diversion into the Milk River. Under the treaty, Canada was to receive one-half of the normal flow of both, the St. Mary and Milk Rivers, with Canadians getting first rights to 500 cubic second-feet of the St. Mary's water and this country having the same prior rights to 500 second-feet of Milk River water.

THIS SAME YEAR, however, work on the canal was suddenly halted. Among other things, serious doubt had developed as to the probability of the St. Mary River being able to supply the irrigation needs of farmers in Canada as well as this country. For the next two years a number of surveys were carried out in the region of St. Mary's Lakes, and careful measurements were made of the river flow.

In 1912, work was resumed on the canal when it was determined that by placing a storage dam at Sherburne Lakes, above St. Mary's, and running the flow of water from here by way of Swift Current Creek into Lower St. Mary's Lake to supplement the river flow and maintain its constancy, the project would be entirely feasible.

Construction began on Sherburne Lakes dam in 1914. Three years later the canal was placed in operation, water from St. Mary River flowing across the divide and emptying into the Milk River, then it wound its way up into Canada and back into this country to the Milk River Valley. It was was not until 1919 that Sherburne Lakes dam was completed and storage initiated.

THE REJOICING OF Milk River Valley residents at the completion of the project was entirely understandable, as was the disappointment of the prairie residents of the Triangle area in the failure of the big ditch to materialize.

It was to be a little over 50 years before the irrigation fever was to strike again in this area. In 1952, construction began on the $20 million Tiber dam located on the Marias River.

Built by the bureau of Reclamation as an irrigation project, the dam was billed at the time as the longest rolled-earth fill dam in the world, and was completed in 1955, impounding over 1 million acre-feet of water.

Do We Solve the Problem?

s River Irrigation Districts have been working U.S. Bureau of Reclamation and the Department al Resources and Conservation (DNRC) to find n to the persistent shortages. The outcome is nsisting of several phases to be implemented riod of years. If adopted by basin water l approved by Congress, this plan could go ay toward solving the shortage problem.

ence in which the phases take place is critical ccess of this plan. Studies have shown that ie shortage problem is due to aging supply at no longer are able to satisfy the full demand to the lands they serve. Thus, even when water supply should be adequate, many experience a shortage. To deal with this improving the conveyance efficiencies of s and improving on-farm water use must lled early in the plan.

npletion of each phase, improvements in er supplies will be assessed and the necessity ling with subsequent phases will be determined. ssment will also allow revision of phases, to the most critical water supply problems effectively handled.

eneral Plan

phase of the plan will establish a means nate the basin-wide management of water. g the water supply through use of existing will also be undertaken.

d phase will focus on reducing irrigation nd improving conveyance efficiencies of canals onservation and rehabilitation measures. By g irrigation efficiencies, basin irrigators will ss water to meet their needs. The limited ply will go further toward satisfying the and.

phase will increase the available water supply nterbasin diversion and/or development of l storage in the basin.

g this general plan is the crucial need to the adjudication of all basin water rights.

A BASIN AT THE CROSSROADS

Milk Basin water users face a formidable challenge. Reducing water shortages in the basin will be expensive. But doing business as usual means recurring shortages year after year. The water users must decide whether that alternative will be any less expensive.

Pick-Sloan funding from Congress hinges on both a sensible plan and political support. The plan proposed here for solving the Milk Basin water supply problem must be analyzed and debated by basin water users. Agreement on a plan must be reached before strategy can be developed to obtain the necessary political support.

To succeed, a plan will need the support of key local, state and national officials. Gaining political support *outside* the basin will depend on achieving a unified approach *within* the basin. Accomplishing both will likely require extraordinary efforts on the part of basin irrigators.

Information in this brochure is the product of a cooperative effort between the Milk River Irrigation Districts, the Montana Department of Natural Resources and Conservation, the 49th Parallel Institute and the U.S. Bureau of Reclamation.

Additional information can be obtained from either:

Mr. Sever Enkerud, President
Box R
Malta, MT 59538
United States

or

the president of your local irrigation district.

Cover: A segment of a photo from the Haynes Collection Foundation, Montana Historical Society.

THE MILK RIVER

MAKING IT MEET THE NEED

1988

WATER SHORTAGES AND THE MILK RIVER BASIN

The Problem Today

Today, Milk River irrigators face significant water shortages in four years of every ten. Historically, the water supply has been about 20 percent less than demand, with an average shortfall of about 121,500 acre-feet per year. Only half of the basin's water needs were satisfied in 1984, a year of record low streamflow.

A number of factors contribute to these shortages. Among the most significant are loss of storage capacity due to sediment build-up in Fresno Reservoir, periodic severe droughts, and aging canals that are unable to carry the water needed for current irrigation operations.

The Problem Tomorrow

Unfortunately, the average annual shortages could increase by about 30,000 acre-feet in the future when others make use of their legal share of Milk River waters.

- The Ft. Belknap, Rocky Boys, and Blackfeet tribes hold federal reserved rights to waters in the basin. The amount of water involved in those rights is yet to be determined.
- The U.S. Fish and Wildlife Service claims federal reserved rights to tributary flows of the Milk for the Bowdoin Wildlife Refuge.
- Alberta plans to build a dam to use the share of water apportioned to Canada under the Boundary Waters Treaty of 1909.

Also, completion of the water rights adjudication in the basin will affect future shortages. In the past, some junior water users have made use of available water in the Milk Basin regardless of whether they could legally use that water. When water rights are enforced in the future, these individuals will be forced to cease diversions when water supplies are limited. Therefore, they will bear a much larger share of the shortages than they have in the past.

ETAILED
›N FOR ACTION

l specific actions have been identified to meet jectives of the phased plan. These are described recommended sequence in which they need to lemented.

›E 1
reased delivery of St. Mary's water

› canal diverting St. Mary's water to the Milk is dergoing restoration to obtain more of the U.S. re of water as apportioned by the Boundary ters Treaty of 1909. Rehabilitation of the canal ld reduce the average annual water shortages 16,000 acre-feet.

nt Board of Control

more efficient and effective use of water, equipment d district staff, basin irrigation districts would organized through the creation of a Joint Board Control. This board, made up of irrigation tri› supervisors elected by the water users, uld coordinate and consolidate irrigation ›ject operation and maintenance activities.

SE 2
habilitation and Betterment (R & B)

›dernizing water conveyance systems would prove the distribution and use of Milk River ›ject waters, reduce conveyance losses, and prove operation and maintenance. The work ›uld focus on the most serious problems and limited by funding levels available through › federal R & B Program.

n-farm efficiency improvements

ch actions as leveling fields, raising border ‹es, lining ditches, and irrigation scheduling ›uld improve irrigation efficiencies, reduce igation demand, increase crop production, and ovide for more equitable distribution of water.

onstruction and Betterment (C & B)

› increasing the level of state and federal funding pport, work initiated through the R & B program ›uld be continued. The result would be the fullest ›s e upgrading of the project distribution system tructures, canals, laterals, and drains), thereby ›proving the use of the water supply, crop productivity, and operation and maintenance. In addition, lands affected by seepage would be reclaimed.

In combination, these Phase 2 improvements would decrease average annual water shortages by an estimated 124,000 acre-feet.

PHASE 3

This phase of the plan would increase the supply of water in the basin by either of the following two actions.

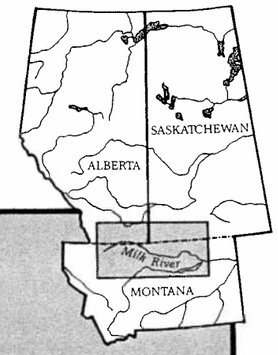
► Virgelle Canal Diversion

Missouri River water diverted to the Milk River basin via a Virgelle Canal could replace water developed by Canada and provide additional water to the Ft. Belknap Reservation, Lake Bowdoin, the Bureau of Land Management, and municipal and industrial users. Water would also be provided to landowners along the canal, including water users on the Rocky Boys Reservation.

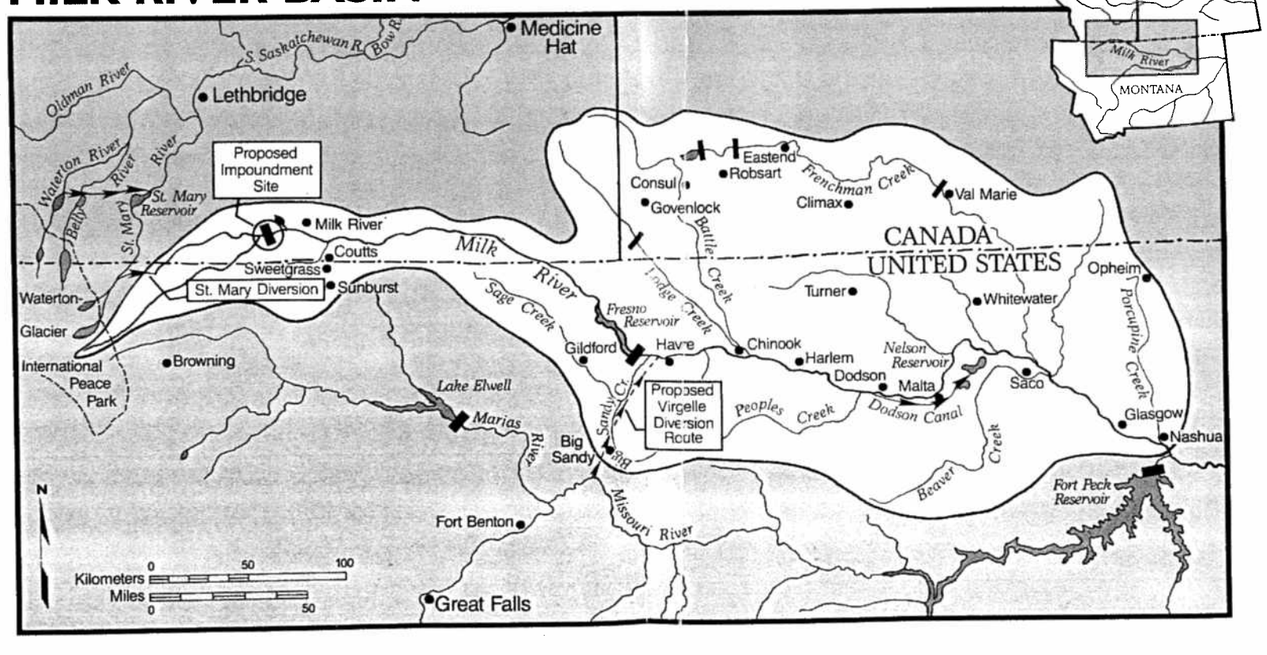
The diversion could reduce the average annual shortages of current irrigators by about 15,000 acre-feet.

► Leased storage in Alberta Dam

Milk River irrigators may be able to lease or purchase storage in the proposed Alberta reservior, according to recent discussions with Canadian officials. The dam could store up to 250,000 acre-feet, of which a portion could be leased by Montana. Leasing storage in this reservoir could reduce annual shortages by about 20,000 to 25,000 acre-feet and could be considered a potential alternative to the Virgelle Diversion.



MILK RIVER BASIN



WHAT WILL THE PLAN COST?

All of the elements of a solution cost money. To upgrade the basin's irrigation systems will cost an estimated $100 million. Addition of the Virgelle Canal increases the total cost estimate to $140 million.

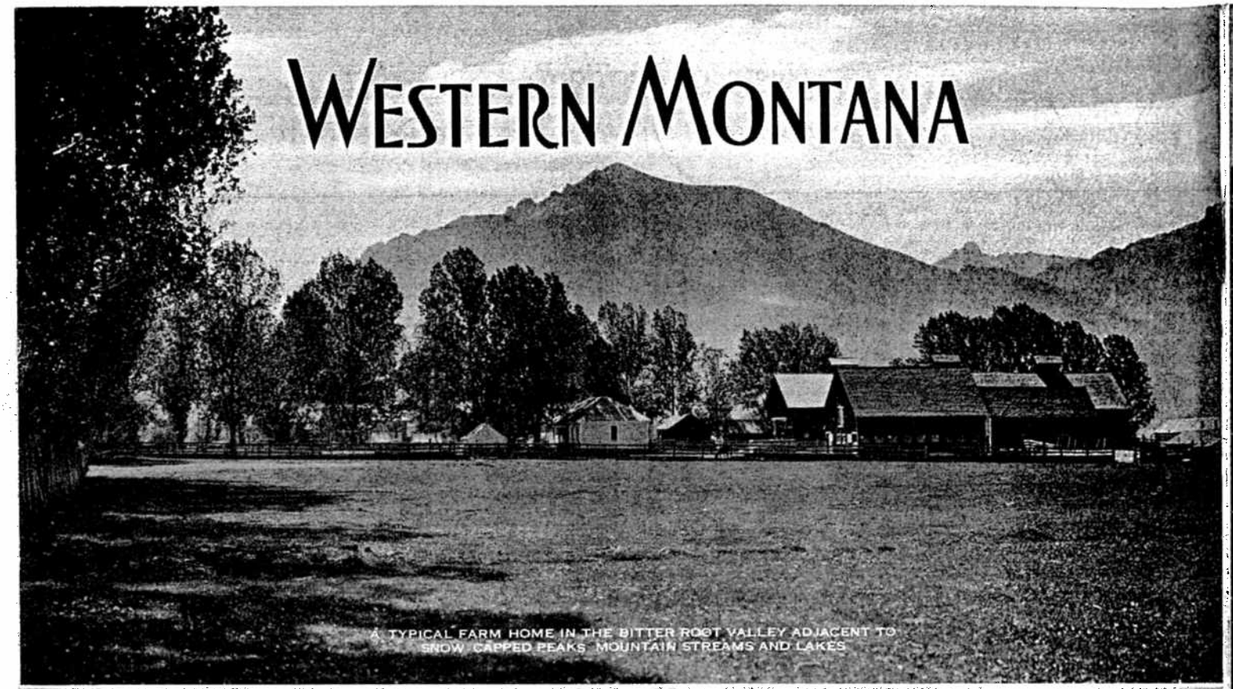
The financing needed to implement the proposed plan could come from the Pick-Sloan Program as authorized by the 1944 Flood Control Act for water development activity in the Missouri River Basin. By obtaining such funding, Milk River irrigators could realize a number of substantial benefits. Among them:

- ► The loan would be repaid, without interest, over a 40-year period.
- ► Irrigators would pay only up to their ability to pay, with the balance of the project costs paid through the Pick-Sloan Program.

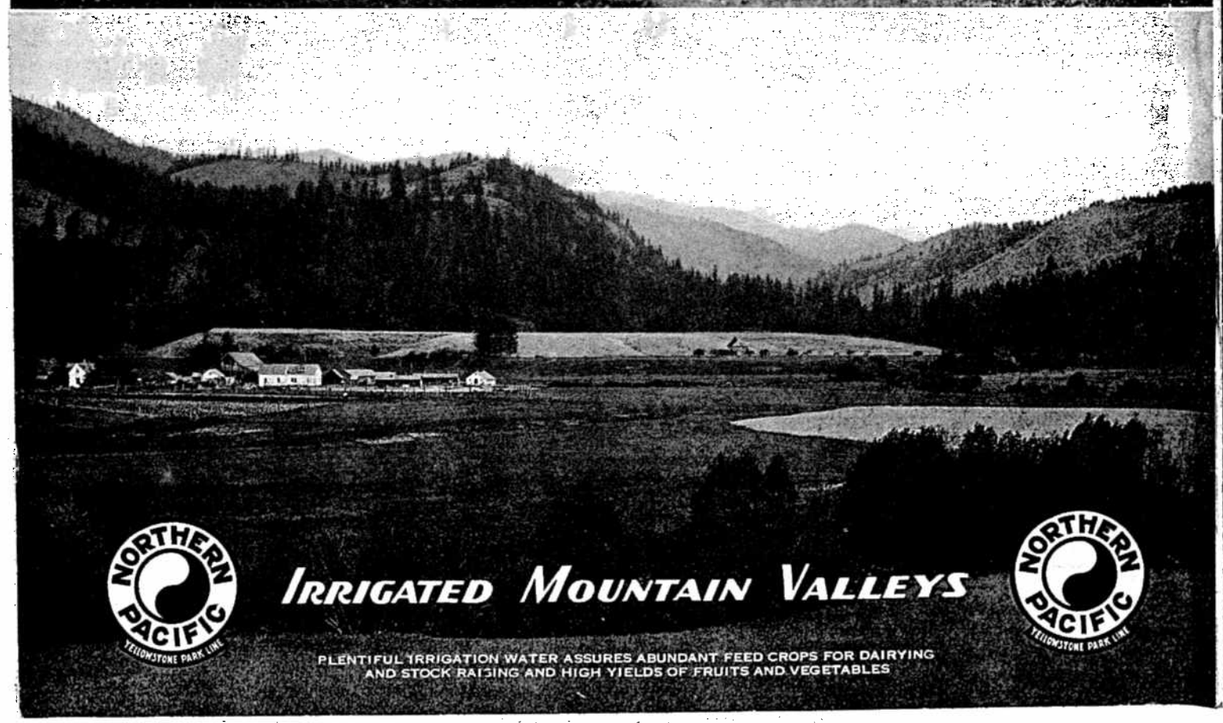
Obtaining Pick-Sloan financing will require approval from Congress. In the case of the Milk Basin, there are a number of reasons why Congress might look favorably to such a funding request, including:

- ► An adequate water supply has never been fully assured for the Milk River Project.
- ► Basin irrigators generally have a low net income per acre and, therefore, a limited ability to repay the full cost of implementing the proposed plan.
- ► The economy of the basin is depressed.
- ► To date, only a very small portion of the funding available through the Pick-Sloan Program has been put to use.

WESTERN MONTANA



A TYPICAL FARM HOME IN THE BITTER ROOT VALLEY ADJACENT TO SNOW CAPPED PEAKS MOUNTAIN STREAMS AND LAKES



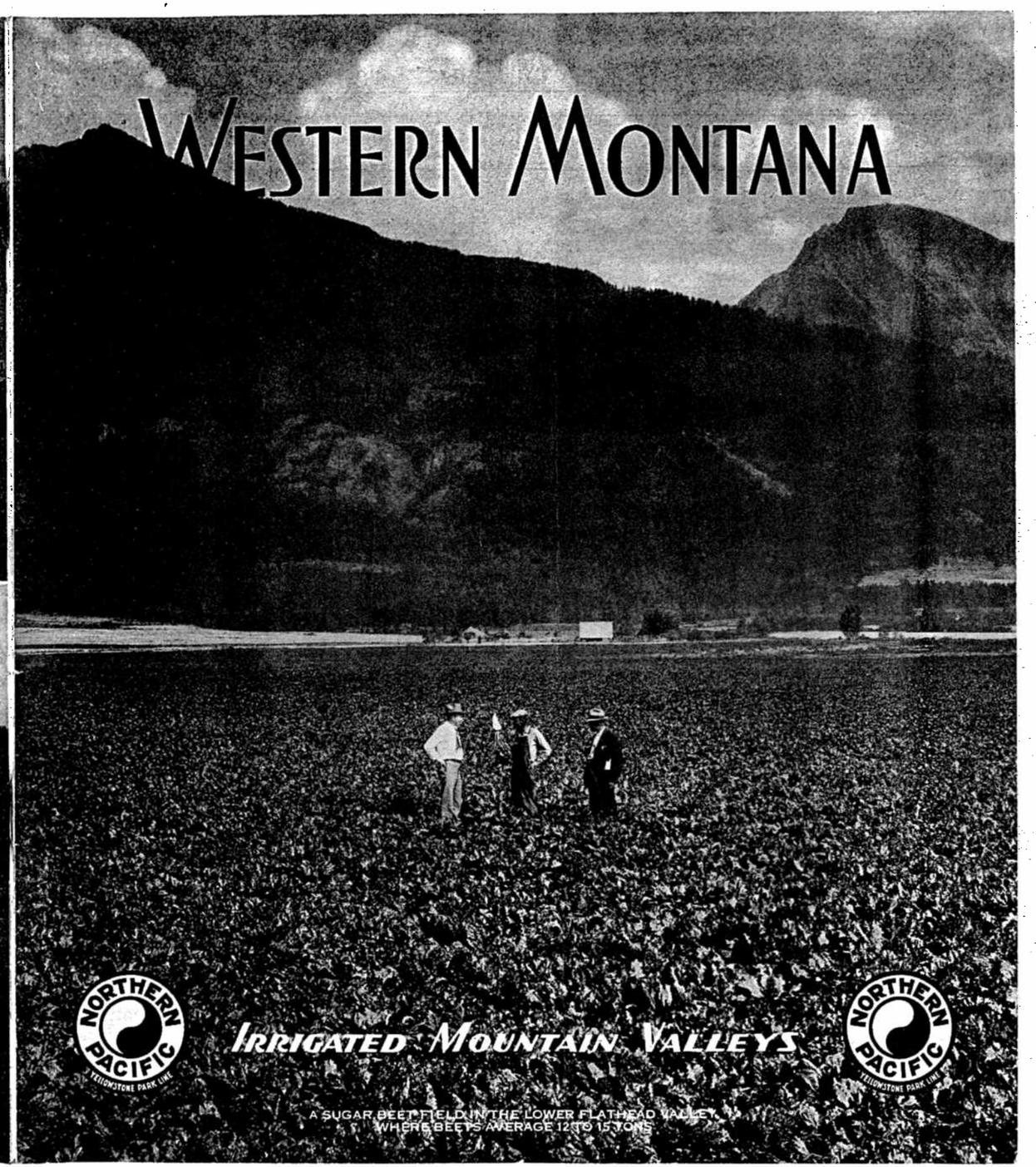
NORTHERN PACIFIC YELLOWSTONE PARK LINE

IRRIGATED MOUNTAIN VALLEYS

NORTHERN PACIFIC YELLOWSTONE PARK LINE

PLENTIFUL IRRIGATION WATER ASSURES ABUNDANT FEED CROPS FOR DAIRYING AND STOCK RAISING AND HIGH YIELDS OF FRUITS AND VEGETABLES

WESTERN MONTANA



NORTHERN PACIFIC YELLOWSTONE PARK LINE

IRRIGATED MOUNTAIN VALLEYS

NORTHERN PACIFIC YELLOWSTONE PARK LINE

A SUGAR BEET FIELD IN THE LOWER FLATHEAD VALLEY WHERE BEETS AVERAGE 12 TO 15 TONS

A modern farmstead on a Montana valley stock ranch situated along one of the large lakes, many of which are natural reservoirs for irrigation water and the life-blood of power developments which now are bringing low cost electric current to hundreds of farms.

across. The Bitter Root mountains on the west separate Montana from Idaho and run almost due north and south. On the east is the Sapphire range which swings in a wide arc to form the valley. Average elevation of the farm lands is about 3,500 feet.

The greatest variety of opportunities is found in the Bitter Root from the small tracts intensively cropped, orchards, dairying, poultry raising and on up to the large stock ranches.

Approximately 100,000 acres are farmed under irrigation, either in irrigation districts or under private ditch. Water costs and soils vary so much that general statements are of little value except possibly to say that practically all types of soils and the extremes of both high and low water charges, common to western Montana, are found in the Bitter Root. The outstanding quality of products grown is shown by the fact that Bitter Root farmers have captured the majority of grain prizes at the Chicago International Grain and Hay show for the past six or eight years in world competition, winning many sweepstakes and reserve championships as well as first and second placings.

A recent development has been the taking over of the Bitter Root Irrigation district by the reclamation service of the federal government. This district has 19,000 acres of irrigable land of which 3,000 acres are still owned by the county and the district, and can be purchased on terms at very low cost. The land is suitable for almost any type of farming in which the prospective buyer might be interested. Irrigation water is supplied from a large reservoir in the mountains and carried down the valley 72 miles, being distributed to the farms enroute.

Other lands of the valley are irrigated from the main Bitter Root river and from lateral streams. These old water rights furnish some of the cheapest water to be found anywhere and generally speaking, the Bitter Root has more than ample water supplies at low cost.

Principal towns are Stevensville, Victor, Corvallis, Hamilton and Darby. Hamilton is the county seat with a population of 1,830.

The Lower Flathead Valley

The Lower Flathead, lying northwest of Missoula, divides into three main districts, the Jocko section or a small valley surrounding Arlee with about 10,000 acres of irrigable land, the main Flathead valley reaching from Dixon to the foot of Flathead

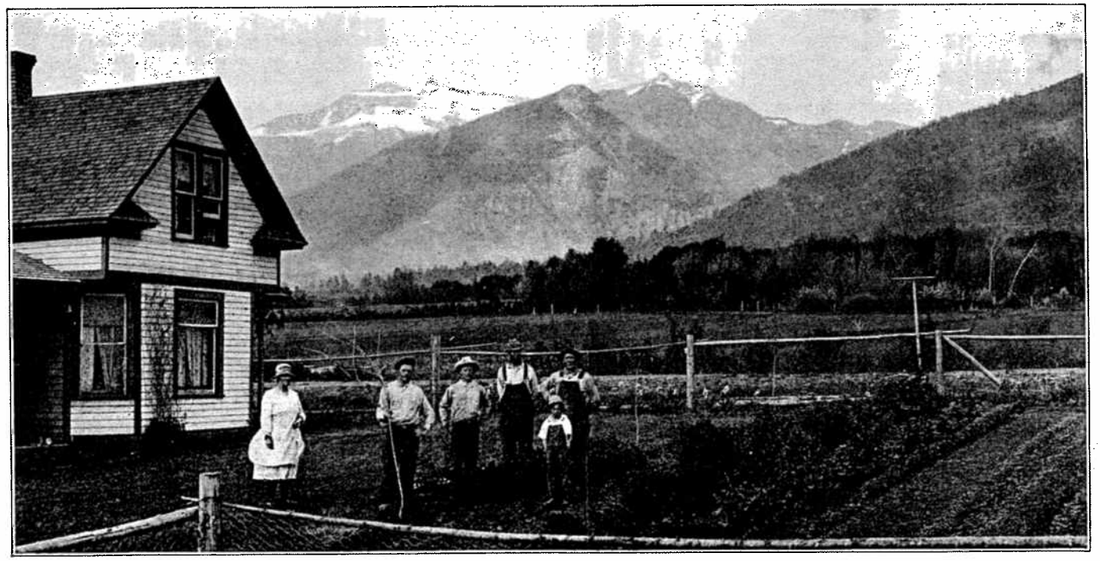
lake at Polson with 90,000 acres potentially irrigable, and the Little Bitter Root valley lying to the west, separated from the main section by a series of low hills, that has approximately 12,000 acres irrigable. The main valley is a large basin 40 miles long and 25 to 30 miles wide. On the east is a high range, the Mission mountains, often referred to as the "American Alps" because of their spectacular scenic beauty and spire-like snow-capped peaks.

The total irrigable area is approximately 112,000 acres and about half of this acreage is now being farmed under the ditch. This project is being built by the United States Indian Irrigation service and offers opportunities for the new settler to start with a minimum of capital, with the expectation that his farm will increase in value. Soils are quite variable, ranging from black silt to sandy and heavy clay loams and in general drainage is not a serious problem.

The project is ideally suited to the development of livestock and feed crops in combination with the growing of sugar beets, potatoes, corn, sunflowers, peas, etc. Farmers on the smaller acreages are specializing in dairying, hog and poultry raising, while the larger farms raise beef cattle and sheep.

The irrigation system being constructed by the federal government is to be paid for by the land owners at the rate of $1.12 an acre per year over a period of about 55 years. Payments on construction charges do not begin before 1935. The land owners also pay an annual operating and maintenance charge that is now averaging about 80c an acre making a total yearly water cost at present of 80c, which will be increased to approximately $2 an acre after 1935.

The project has an interest in a power site being developed on the Flathead river south of Polson. It is estimated this site will develop 100,000 horse power of electrical energy and the land owners, in return for their interest in the water right, have been awarded a block of 15,000 horse power to be delivered to them at very nominal charge. Five thousand horse power are to be used for pumping to supply supplemental water for irrigation, leaving a balance of 10,000 horse power, which the project will sell to industries or use on the farms. When the development is completed and industries have been brought in sufficient to utilize this power, it will give the project an annual revenue of from $75,000 to $125,000. This money will be applied on the con-



The family unit is an important factor in western Montana farming. Productive valley floors, frequently almost level, flanked by towering mountains with their snow to furnish irrigation water and their forests and wild life, inject an appealing lure into this region as a farming country.

Ronan Pioneer
6-9-60 - p. 4

The Reservation Became a Productive, Populous Area

This is a continuation of the article by John W. Haw, former director of the Agricultural Development department, Northern Pacific Railway. In last week's issue, Mr. Haw described the events and conditions leading up to the railway's decision to make every effort to help increase the population and production of the irrigated Flathead reservation. Following is his account of their work and the results.

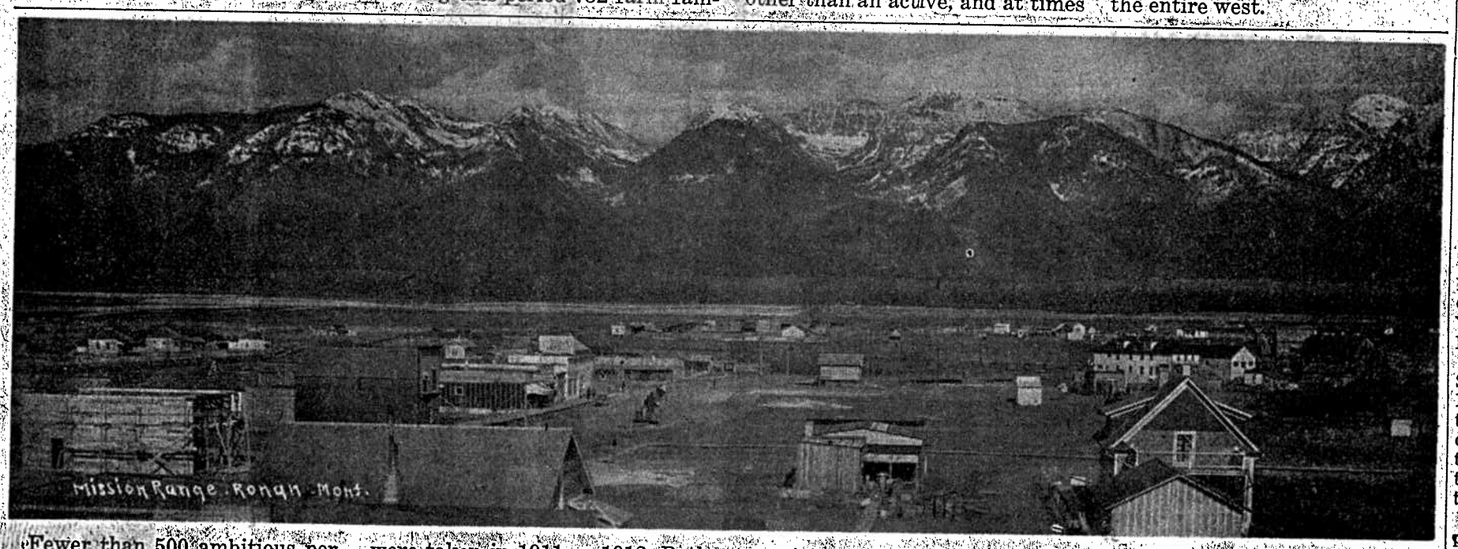
The Northern Pacific began its land-settlement campaign in 1925 by collecting material, data and pictures for an advertising booklet, featuring exclusively the Flathead valley. Thousands of copies were placed in the hands of real estate dealers in areas which at that time were originating land seekers. Efforts were concentrated in southern Alberta, Nebraska, Colorado, Utah, southern Idaho and eastern Montana. Feature articles on the Flathead were run in the company's magazine, "The Northwest." The Flathead was conspicuously identified in the Agricultural Department's classified advertising in farm magazines and newspapers circulating in rural areas which at that time developed nearly 30,000 farm settler inquiries a year.

It soon became apparent that additional experienced farm real estate personnel was required to formulate farm listings on the Flathead, answer correspondence and to show the country and farms for sale to settlers who were beginning to drift in. Upon the recommendation of the writer and Mr. Campbell, the Larsen brothers, Bill and Pete, who were successfully operating in the Snake River valley, were hired by the company on a monthly basis. They were to operate without acceptance of commissions. First headquartered in Missoula, it was soon found that to work effectively they had to be located on the project. Consequently, a remodeled obsolete dining car was placed on a side track at Charlo to serve as their headquarters. Later they were transferred to a vacant bank building in Charlo. The Larsen brothers devoted their entire efforts to the settlement and agricultural development of the valley during the late 20's under the direction, and with the assistance of Mr Campbell. In fact, their activities continued until Bill Larsen was transferred to Pasco, Wash., in 1932, and Pete Larsen remained in Charlo, later in Missoula until 1935. During this period 732 farm families were settled on the Flathead project, and a count in the early 30's showed that of this number 610 were still there and well rooted in the farm economy. Number of farms and irrigated acreage began a steady growth which continues even at this date.

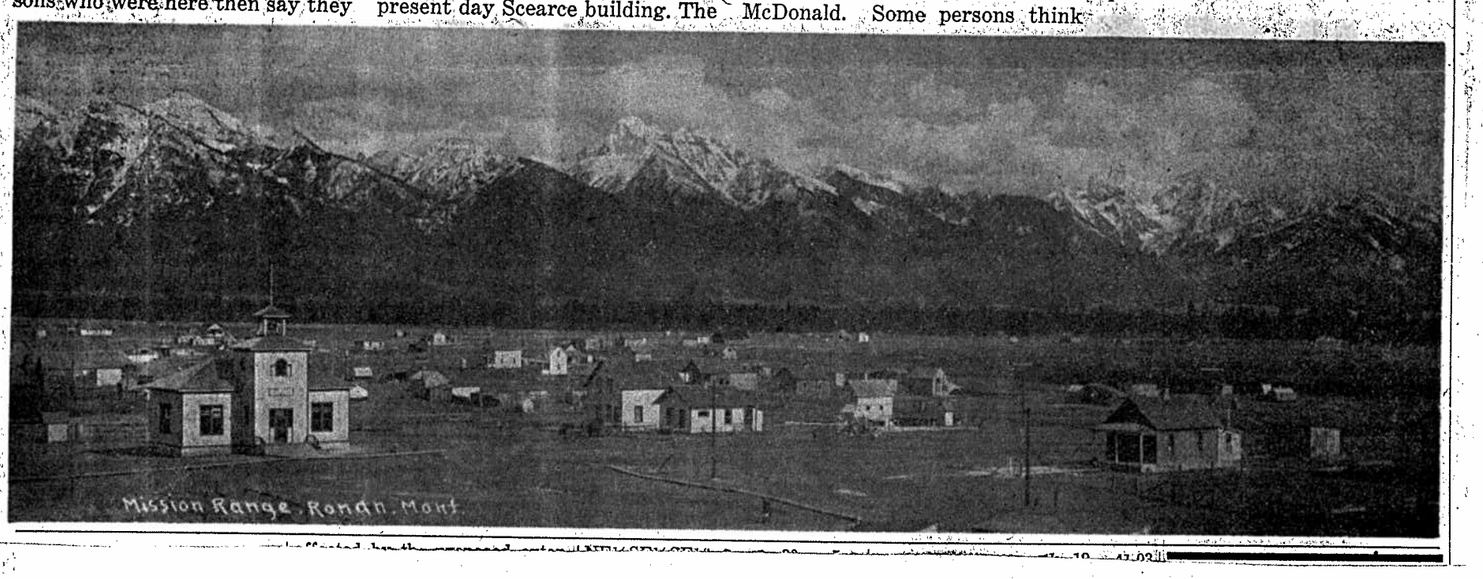
Space does not permit spelling out in detail the closely allied activities of the Larsen's, Mr Campbell and the writer, in connection with financing of settlers, the establishment of sound irrigation and farming practices, the importation of dairy stock, the planning of the highway net and in the negotiations with the government for completion of the irrigation system and a repayment contract satisfactory to the government. Oothers took the lead in, or rendered invaluable service in such efforts. Among those whom we worked closely were project attorney, Walter L. Pope and irrigation district commissioners, Dellwo, Scearce and Inkster. It would be presumptuous to claim other than an active, and at times highly influential, part. Northern Pacific agricultural men played an indespensable role in securing signatures to the repayment contract from absentee landowners scattered far and wide over most of the states west of the Mississippi.

To those of us on the Northern Pacific still living who participated in efforts to get the lower Flathead valley off dead center in the 20's, it is heartwarming now to see 100,000 acres of productive, irrigated land growing diversified crops and contributing to the social and business life of the thriving towns and cities on the project. It seems a far cry back to the paltry 15,000 acres irrigated 35 years ago. No longer does the Polson branch of the Northern Pacifi run off into empty spaces with widely scattered farm producing hay, pasture and wheat.

Congressmen Louis Cramton, during the 20's chairman of the House Interior and Insular Affairs Committee, before whom the writer appeared many times in efforts to find a solution to early Flathead valley project problems, referred in the Congressional Record to land settlement efforts conducted by the Northern Pacific as most effective and efficient coming to his attention in the entire west.



Fewer than 500 ambitious persons worked only a little more than a year to make the community pictured here. Though these pictures carry no date, most persons who were here then say they were taken in 1911 or 1912. Both pictures were taken by Bigelow, Ronan's early day photographer, and were taken from an elevated location near the back of the present day Scearce building. The top picture was taken with the camera pointed slightly northeast, and the bottom picture taken from the same location with the camera facing directly toward Mt. McDonald. Some persons think the pictures were taken before the fire of August 1912. The Pioneer would appreciate comments on the approximate date of these pictures.



IRRIGATION

WITH close to 30 percent of Montana's farm families, and an even greater percentage of northern Wyoming's farm families, residing on irrigated land, and an increasing acreage of the two states' fertile land being placed under water each year, The Montana Farmer believes that it is appropriate to establish this special irrigation department in which timely and practical irrigation subjects will be outlined and discussed.

Farmers in many of the major irrigated areas are turning to sugar beets and other cultivated cash crops around which to build their farm programs. There is a definite place for sugar beets on the majority of the two states' irrigation projects. Between 45,000 and 65,000 acres were planted to beets in each state in 1936, and, it is estimated that sugar factories in Montana produced close to 2,800,000 100-pound bags, and those in Wyoming, 1,600,000 bags of sugar last year.

The fact that sugar beet growers realize one of the highest per acre incomes of any cash crop grown under irrigation; that the byproducts stimulate livestock feeding, and that beet production places a farm on a definite crop rotation basis, indicates that sugar beets are playing an all-important part in the efficient development of irrigation farming, and, at the same time, materially benefitting other industries of the two states.

The Montana Farmer would be pleased to receive letters from irrigation farmers telling of their experiences or seeking information on practices which they believe will be beneficial in their individual cropping program.

300 Acres Under Pump

By O. C. Shepherd, Hill County

IN 1925, E. T. Broadwater, E. J. Pepin and Adolph Pepin went together to install an electric irrigation system. Our first investment was a centrifugal pump, directly connected to a 30-horsepower electric motor, lifting 3,000 gallons of water per minute under a 30-foot head to an open ditch intended to water 300 acres of land. This unit has run continually about four months each year since, and has given perfect satisfaction.

Two or three years later, we installed another pump to throw 2,500 gallons of water per minute. This pump is of a different design and has never given any satisfaction. It kicks off continually and we can get no satisfaction from any of the experts as to just why.

We get the water from Milk river which is supplied from St. Mary's like in Glacier park.

Plant Costs $4,500

As to cost, the present installation costs about $4,500 and we pay $1 per horse-power per month for readiness to serve, and .0116 cents per kilowatt hour for juice or about $1 per acre each irrigation. The overhead, including the horsepower, repairs, taking out and putting in the pipes each year, electric service, etc., will amount to about $1 per acre per season, and the water right from the government is $40 per acre spread over 40 years without interest, plus a maintenance charge on St. Mary's and Fresno dams of about 25 cents per acre.

The total cost of irrigation under this system is about as follows: For three irrigations, electricity, $3; overhead, $1; water right, $1.25; handling water, $1.50; total, $6.75.

We raise alfalfa almost exclusively and have found that if we do not let the alfalfa get more than 6 years old and have it strung out so it does not average over 4 years old, we can produce an average crop of from 3½ to 4 tons per acre. This last year we had over five tons per acre on 2-year-old alfalfa, making the water cost amount to about $1.75 to $2 per ton. Allowing $1 per ton per annum for cost of reseeding and $2 to $3 per ton for cutting and stacking, we have a total cost of from $5 to $6 per ton, average.

Oats Nurse Crop

This last year we used an oat nurse crop on 100 acres that brought over $40 per acre and cost about $14 per acre to handle. This exceptional price was gained by the high price of oats and the fact that we got $12 per ton for the straw and we mowed the stubble after binding and got $12 a ton for that. There was a good percentage of new alfalfa in the straw and the stubble was nearly one-half alfalfa. The oats made 40 bushels and the straw and stubble made almost two tons per acre.

I think there is much less danger of ruining your land with water that is pumped than there is with a gravity ditch, especially when you have plenty of water.

A Montana Flood Irrigation Project

The Johnson flood irrigation project pictured above is situated 8 miles east of Winnett. This land was diked in the spring of 1936 as a demonstration project of the soil conservation service. Water for irrigation is diverted from a coulee with a drainage basin of about four square miles. Forty-three acres are irrigated under the dikes. The supply canal from the coulee to the diked section is 10 feet wide on the bottom and carries a depth of about 1.5 feet of water. The dikes are about 14 inches high.

A headgate at the point of diversion will control the amount of water flowing to the project so that an excessive amount of water at peak flood will not wash out the dikes.

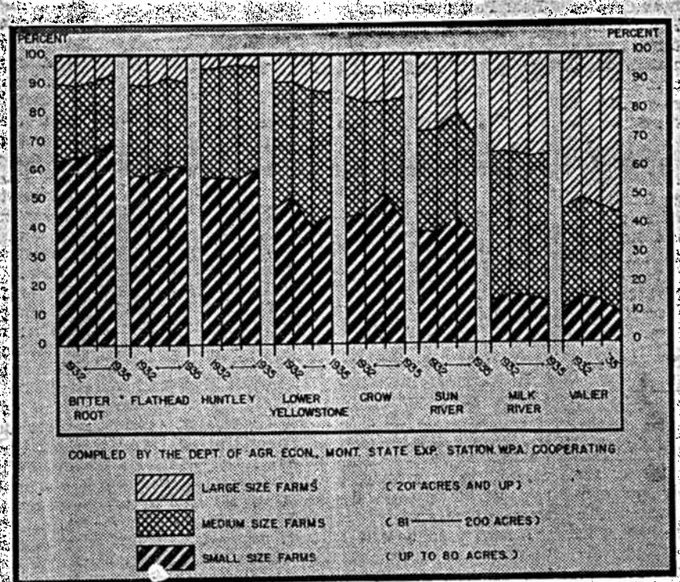
By April 5 of this year, the land had received two irrigations from snow run off and tests have shown that the water has penetrated over three feet into the subsoil. It is estimated that at least a foot of water is stored in the ground now, and it is confidently expected that several more irrigations will be had during the spring and summer.

The entire project was seeded to alfalfa just before the last irrigation and a good stand seems assured.

The slope of the ground is about 6 inches per 100 feet which seems to be about the ideal slope.

The dikes are built at vertical intervals of about 7 inches and average 120 feet apart. The water is spread by what is sometimes called the "syrup can method," running in one direction through one diked section, through an opening into the next one lower, then back to the next opening at the other end, alternating in that way across the field.

Acreage in Montana's Irrigated Farms



Irrigating Grass Land

WE HAVE a large amount of water for irrigation purposes and the past several years it has been very dry, so we have had to enlarge our irrigation system to cover all the pasture land possible.

Most of our pasture land on the ranch has a south slope, with occasional coulees, running south. We divert the water onto the hillsides by dams and ditches. We have a permanent supply of water from our ditch to supply the coulee and the same method could be applied to divert water from all dry coulees in Montana where there is enough water adjoining land to justify the expense.

When cloudbursts come they often carry a lot of debris and mud. In long coulees, I would suggest that the first 100 feet of ditch have a three-tenths fall, the second, two-tenths, and the remainder one-tenth. Ditches of this nature could be placed in many large coulees and they would divert water onto the hillsides instead of into the Missouri river.

We build all of our lateral ditches with a tractor and seven-foot blade grader. We have an old blade grader from which we removed the blade and attached a heavy power flow beam with rooter point. One engine pulls this rooter and the other follows with the blade. As a rule, this makes all the ditch needed for scattering water on a slope as we want some of the water to spill over for the lateral below, which is only 100 feet if the slope is steep.—G. C. A., Teton county.

Acreage in Farms

We ordinarily think of irrigated farms as being comparatively small and this is the case on some Montana projects, but a study of the chart shown at the left will reveal that many farm units are still in fairly large blocks.

On the Valier project, for instance, more than 50 percent of the farms are 200 acres or better in size. On this same project around 35 percent are in the medium size class farms of 80 to 200 acres, and only about 10 percent in small farms.

Contrast the Valier project with the Bitterroot, where upwards of 60 percent of the farms are 80 acres or less in size, and less than 10 percent in farms of 200 acres or more. Of course, conditions are widely different on the two projects, which accounts, in part, for the difference in size of farm units.

The chart shows that the Flathead and Huntley projects have approximately the same number of farms in the small size units, while the lower Yellowstone, Crow and Sun river projects are broken down approximately 50-50 into small and medium sized farms.

This is the fourth of a series of irrigation study charts prepared in a research in irrigation economics, carried on at the Montana experiment station in Bozeman, under the direction of P. L. Slagsvold, agricultural economist.

Entered as second class matter at the postoffice at Great Falls, Mont., under the act of March 3, 1879

THE MONTANA FARMER

A JOURNAL OF PRACTICAL AGRICULTURE DEVOTED TO THE BEST INTERESTS OF FARMERS, STOCKMEN, RURAL FAMILIES OF MONTANA AND NORTHERN WYOMING

Published semi-monthly, on the 1st and 15th, at Great Falls, Montana.—Office, Tribune Building.

CORN

For Lamb Feeding In Northern Montana

By W. T. COWAN, Hill County

A field corn scene in north central Montana

IN SPITE of all that is written and spoken about farm management and making a success of feeding livestock, in the final analysis the solving of these problems is largely up to each individual farmer and stockman.

However, there are certain practices which are general in character and in groping around for ways and means to make a living, we do profit more or less from the experiences of others. The old saying that fools learn from their own mistakes but wise men from the mistakes of others is still sound logic.

In farm operations, climatic conditions have such a large part in the success or failure of any program, that to be a successful operator requires a man to have a love for the soil, a reasonable amount of ability to reason and to be careful not to become too confident over the fortunate outcome of past experiences.

In this semi arid section, it is well to plan that every year will be dry. Then to keep in mind the old adage, "If you desire to grow grapes, plant near a vineyard." This led my father, when he came into northern Montana in the eighties, to observe very carefully the activities of the residents then living here. At that time about the only farmers were the Indian women who planted corn. We used to see them bring squaw corn to Fort Assinniboine to sell to those members of the Garrison who had chickens, for chicken feed. My family had pioneered North America and corn, of course, was one of the staple crops. I remember my grandfather telling how my great grandfather rigged up a corn crushing machine by chopping and burning out an oak stump and pounding the grain with a pestel fastened to a stout hickory sapling as a spring pole.

Always Plant Corn

We, therefore, decided that corn must be one of the crops most suitable to this territory and we have never failed to plant some corn every year. We preferred the so-called squaw flint corn for the reason that it was acclimated and regardless of the height of the foliage, when the time arrived for ears to be put out, the ears came. I have seen corn ear out in the dryest years, when the total height of the plant was not more than six or eight inches.

So when I decided to try feeding my lambs, after weaning time in the fall, I naturally began to think about the kind of feed. I sometimes have cut oats, bunched them in the field and let the lambs graze or feed on the bunches. I have also fed headed wheat with very good success, but recently I have been planting corn and letting the lambs harvest it.

Disc Before Weeds Start

I find that cultivation as practiced in more humid sections is not necessary in this territory. I try to double disc the land on which the corn is to be planted before the spring moisture has all dried out, or the weeds started. I then plow the ground starting as close to May 10 as possible, follow up with the corn planters, not check rowing, but dropping in rows, putting the seed six to eight inches apart in the rows. I start a harrow going right after the planters, for two reasons, first to obliterate the wheel rows of the planters, and second to firm down soil. I keep the harrows going till the corn is four to six inches high. The best way to do this is to hire a man and do not go near him. If you do you may stop him because the harrows are pulling out too much corn. However, there always is plenty of corn left to make a crop. If the crop is handled in this manner, it is never necessary to use cultivators. If a few weeds do grow, the lambs will eat them when turned into the corn field in the fall.

This season I planned on seeding winter rye or winter wheat just before the last harrowing, to first hold down weeds, and second to provide green feed for the lambs between the corn rows. Winter crops seem to need pasture and firming by the hoofs of the lambs in order to come through our rigorous winters.

In order to get the best results from feeding off corn, it is necessary to have sweet clover or alfalfa pastures adjacent to the corn fields. On our ranch we have irrigation ditches and sweet clover volunteers on the ditch banks and in other places, so the balancing of the ration is not a problem.

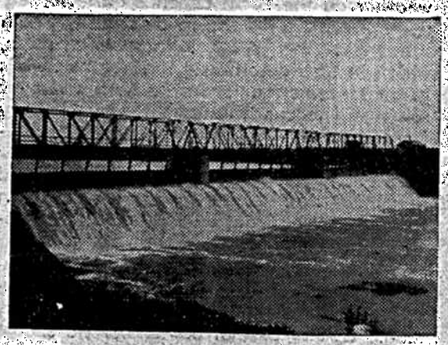
I generally turn my lambs on the corn about Sept. 15; with corn and other pasture it is possible to secure an increase in weight of between 10 to 15 pounds. Then there is a good market for lambs in November and December. The past fall I was lucky and disposed of my lambs just before the first cold snap which came in November.

With the thousands of lambs shipped from Montana, I feel sure a profitable field of adventure is open to any farmer who will grow corn for fall feed, provide some sweet clover, and who has available a sufficient water supply to care for the lambs. In addition to this, the harrowing of the corn, the fertilizer left on the field will provide an added revenue in the following year's crop.

In this vicinity it is alleged that two years of corn followed by one crop of wheat is as valuable as a year's summer fallow. The practice here is to plow for the first corn crop and double disc twice for the second year. This program, if followed consistently would mean a farm would have two-thirds of the acreage in corn and one-third in small grain each year.

Cut With Mower

If some of the corn is required for feed for other livestock I cut the corn I desire for fodder with a mower, let the stocks lie on the ground for a few days, generally a week, then rake into windrows with a horse rake and bunch with a fork. After the corn stalks and ears are thoroughly dried out, I run through a threshing machine. The corn will thresh just like small (continued on page 23)



This dam near Dodson diverts water from Milk river for Malta division of Milk river project.

Milk River *Irrigation*

AGRICULTURE on the Milk river irrigation project in northern Montana has forged ahead rapidly in the last four years and is destined to continue its progressive development for many years to come.

Smaller farm units to make room for more farmers and increase efficiency of operation is one of the major developments. Comparatively large acreages have been taken over by the resettlement administration and divided into smaller farms where farmers from the poorer dryland districts have been resettled and given an opportunity to develop better balanced farm programs—programs that will give farm families a higher standard of living through better stabilized incomes.

Farming methods have been improved on the project in the last 10 years. Through the assistance of project officials, irrigation specialists and county extension agents, farmers have developed a crop program that better fits soil and climatic conditions. Land has been leveled to increase irrigation efficiency and drainage provided to reclaim some land and insure against loss of other good land.

A typical sugar beet harvesting scene on the Milk river project in northern Montana.

Recent announcements from Washington that the bureau of reclamation had completed specifications and drawings for construction of the Chain of Lakes irrigation project and would call for bids in a few days, is (continued on page 23)

Veterinary Department

By DR. HOWARD WELCH

Grasshopper Poison

A BAD GRASSHOPPER year is attended by the widespread use and misuse of grasshopper poison, and almost inevitably, by the loss of livestock from that poison. It seems unnecessary, and is unnecessary, but it happens. Just as a certain percentage of auto drivers charge merrily past a "slow" sign and wind up a few seconds later in a shower of headlights and seat cushions, so a certain percentage of poison users disregard all warnings as to the handling of this poison and leave it where stock can get at it.

The ordinary poisoned bran, the common hopper bait, or poison, will not kill livestock nor poultry if spread on the land in anything like the proper manner. Poultry cannot be killed by bran spread properly, nor by eating the hoppers killed by poison. Poultry can be fed poisoned hoppers, as their only food, for a month, and remain thrifty. Grain and hay from fields that have been poisoned do not carry any arsenic to the stacks or granaries, and livestock cannot be poisoned by either straw, grain or hay from poisoned fields.

It is possible that if the poisoned bran was spread in large handfuls and chunks, so that a cow or horse could get it in mouthfuls, that poisoning might occur. About 99 percent of livestock losses from this source occur from a month to two or three years later, when the half sack or two or three sacks of unused hopper poison by some mischance gets within the reach of cattle or horses. This occurs in all sorts of ways.

Sacks hung up in granaries and barns sometimes rot and burst, dumping out the contents. Sacks of unused poison have been thrown into straw stacks and burned. The straw burned but the poison didn't, and the following winter cattle were poisoned. Sacks of hopper bait have been stored in covered, steel barrels, but the new hired man fed it to the dairy cows. Sacks of poison have been left in the truck while the owner answered the phone. While he was gone, horses in the yard filled themselves with this sweet bran. The hired man (or anyone else) gets through poisoning a field a mile from the house, and has 50 pounds of bait left over, at noon. Does he carry the unused 50 pounds back to the house? He does not. He dumps it in a coulee or fence corner and kicks some rocks over it. Three months or three weeks or three years later something finds this poison and goes to its own particular happy hunting grounds.

This is one of the events that seems to be a logical and natural sequence of hopper poisoning. The other is entirely different; the tendency on the part of some people to blame all poultry and all livestock losses to poison spread by (1) neighbors, (2) the county agent, (3) the WPA, (4) anybody. We get poisoned turkeys, chickens, lambs and calves shipped in for arsenic determination, only to find that they died of "common, everyday ailments." This poison bait is safely used by thousands of people that we never hear about. But when one person gets careless, and stock losses result, then there are letters and threatened damage suits and newspaper articles and a terrible fuss made.

It is unfortunate that a plague of grasshoppers makes it necessary to put in the hands of Tom, Dick and Harry several hundred pounds of potential disaster for him or her to handle wisely or unwisely. The unwise may be careless with the poison, and livestock losses may result. However, the careless soon become careful, as in the long list of those who have lost stock from hopper poison, no names appear twice. Once is enough.

MILK RIVER IRRIGATION

(Continued From Page 3)

gratifying news to farmers on the Milk river project. It will assure an adequate supply of water for more than 60,000 acres, generally benefiting agriculture along the Milk river valley from Chinook to Glasgow.

The proposed dam would be constructed near Fresno, west of Havre, and will provide storage for the flood waters of the Milk river. It will regulate the flow of the St. Mary's river, which rises in Glacier park, and will improve winter sanitary conditions of the district through which the streams flow.

The Milk river irrigation project is located in Blaine, Phillips and Valley counties, extending from Lohman, a short distance east of Havre, to Nashua, east of Glasgow. The total length of the project is approximately 150 miles. In width, it ranges from a half mile to three miles.

Water for irrigation is stored in the Sherburne lakes in Glacier park and is diverted through a canal 29 miles long into the north fork of Milk river. The Milk river flows through Canada for 216 miles, returning to the United States north of Havre.

Water is diverted from the river by dams near Lohman for the Fort Belknap, Alfalfa valley and Zurich irrigation districts, and southeast to Chinook for the Paradise valley district. The Harlem district has an electric pumping plant east of Zurich. These five districts constitute the Chinook division of the project.

For the Malta division, water is diverted from the Milk river by a dam near Dodson into two canals. The Dodson north canal irrigates land near Dodson and Malta, and the Dodson south canal conveys water to land near Wagner, Malta and Bowdoin, and through the Nelson reservoir to land near Saco and Hinsdale. A dam near Vandalia diverts water from the river into the Vandalia canal for the irrigation of land near Tampico, Glasgow and Nashua.

The Chinook division comprises around 55,772 acres; the Malta division, 58,670 acres, and the Glasgow division, 17,000 acres.

Attention was focused on the need of the Chain of Lakes development in 1930 when a water shortage occurred on the Malta division during three weeks in June. The St. Mary's canal flow was increased from 200 to 600 cubic feet per second on June 16 and this water was not available for irrigation until July 4 because of the distance the water had to travel before it reached the irrigation outlets. The Fresno dam would regulate the flow of the St. Mary's river close to the project.

Started 40 Years Ago

Work was started on irrigation development along the Milk river from 35 to 40 years ago, reconnoissance surveys being made of the St. Mary's storage territory by the geological survey back in 1891 to 1902. Construction of St. Mary's storage unit on the St. Mary's canal across St. Mary's river and Hall's coulee, was began in 1906. The Sherburne lakes reservoir was constructed in 1914 and in 1926 the double barreled siphon completed, which made possible carrying 600 to 800 cubic feet per second of water.

The distribution systems on the Malta and Glasgow divisions were constructed by the United States bureau of reclamation. Up to and including 1925, water was delivered on a rental basis which varied from $1 to $5 per acre-foot for the water used. As only a small portion of the project was in production, an operation and maintenance deficit occurred each year and was funded with construction costs. In 1927, all lands in what were considered classes 1 to 4 were assessed a flat charge of 50 cents an acre and water was sold at 50 cents per acre-foot. These charges enabled the districts to pay 40 percent of the operation and maintenance charges for the year, the remainder being funded. In 1931, the charges were 80 cents per acre for operation and maintenance and $1 per acre foot for water used. For the Glasgow division, the charge was 90 cents, of which 10 cents was for revolving fund. The districts have been paying operation and maintenance charges in full since 1930 besides building up a surplus to take care of lands which may become delinquent.

In the Chinook division, the period from 1915 to 1922 was marked by the consolidation of various private irrigation enterprises into districts and by the construction of canals.

The Milk river project is traversed its entire length by the main line of the Great Northern railway. Sugar beets have been one of the major cash crops and with a factory at Chinook the project will continue to be one of the major sugar producing districts of the country. The sugar beet industry works in nicely with a livestock feeding program and dozens of farmers are turning to feeding each winter, using what roughage that can be produced on the farm and hauling beet pulp and molasses from the factory.

Hundreds of acres of good alfalfa and blue joint meadows have been developed on the project, where thousands of tons of good hay are produced annually for livestock operations. Many farmers are finding corn a paying crop and each year seed large acreages, some of which is allowed to mature for seed and feed, and some that is turned into sheep or cattle pasture in the fall.

Headquarters for the project are at Malta, with H. H. Johnson, superintendent in charge.

Corn for Lamb Feeding

(Continued from page 3)

grain. There will be some broken cob in with the corn, but you shell and husk at one operation. This corn and cob will grind and make a very fine ration. I generally thresh a portion of my crop, so if a storm comes I have shredded corn stalks to feed to the lambs and a ration of ground corn and cob to hold them up. All stock relish the threshed corn fodder. Of course, care has to be taken to see that the threshed corn grain is dry, and if not requires to be spread out thin till it is dry to avoid molding. The same care must be taken with the fodder.

Many farmers may hesitate to go into this program of lamb feeding for fear they cannot obtain financial assistance in purchasing lambs to use up the feed. No uneasiness on this score need deter a farmer from putting in plenty of corn. Fortunately we have in every part of Montana the credit corporations setup to finance just such ventures. In this section we are served by the Milk River Credit Corp. located at Chinook. I have discussed this matter of lamb feeding finance with Lloyd C. Kenyon, manager, and no one with ample feed, a reasonable knowledge of animal husbandry need hesitate in preparing for the feeding season this fall. These credit corporations are established for just such a purpose and are both anxious and willing to co-operate in every reasonable way with prospective lamb or cattle feeders.

Ware—I see the doctor put you on your feet again.

Luna—I'll say he did. I had to sell my car to pay his bill.

Entered as second class matter at the postoffice at Great Falls, Mont., under the act of March 3, 1879

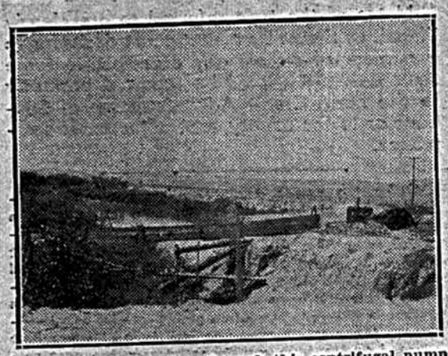
THE MONTANA FARMER

A JOURNAL OF PRACTICAL AGRICULTURE DEVOTED TO THE BEST INTERESTS OF FARMERS, STOCKMEN, RURAL FAMILIES OF MONTANA AND NORTHERN WYOMING

Published semi-monthly, on the 1st and 15th, at Great Falls, Montana.—Office, Tribune Building.

PUMP IRRIGATION

—Large Montana Farm Acreage Under Private Pumping Systems—



Sun river water gushes through this centrifugal pump to irrigate 120 acres on the McIver farm in Cascade county.

HUNDREDS of acres of fertile bottom land in Montana have been brought into production or made more productive through installation of pumping plants and simple irrigation systems. The bulk of this land is in areas that cannot be economically served by established gravity irrigation projects, and dozens of systems can be found within areas completely surrounded by dryland farms.

Appreciating the fact that water, the lifegiving fluid, is essential to assure crops and place farming operations on a more stable basis, each year sees more Montana farmers turning to some sort of pumping irrigation. Whether a discarded automobile motor, an old "step ladder" steam engine, a home made centrifugal pump, or one of the nationally advertised pumping plants is used, water from dozens of rivers, lakes and creeks of the state is being lifted onto the land.

In northern Montana and elsewhere in the state bluegrass and alfalfa meadows have been developed to a point where they provide ample feed for livestock operations. In many instances, farmers are using water from these pumping plants to irrigate small grains, sugar beets, beans, corn and other row crops. Gardens on dryland have been moved to these fertile bottoms and in some instances additional lift systems have been installed to carry water to shelterbelts and small acreages on higher ground.

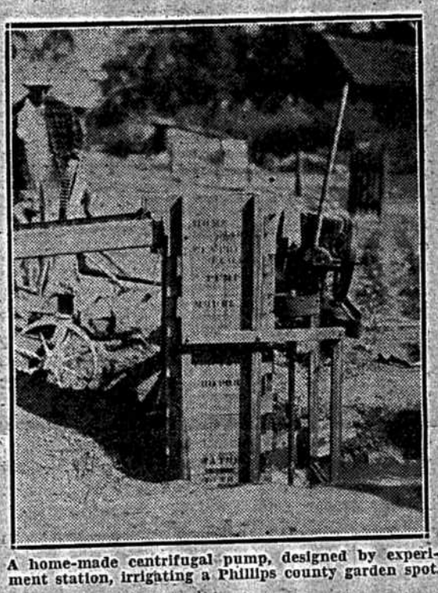
A simple but unique system is found on the Lebert & Lloyd farm, near the mouth of Milk river in Valley county. A 10-inch pump is operated by a 15-27 horsepower farm tractor and this outfit lifts water 18 feet from the Milk river to irrigate 55 acres of good bottom land. The pump foot valve is placed about 2½ feet below the surface of the river and the water is discharged into a cement tank, from where it is ditched to the farm land.

S. J. Lebert and W. G. Lloyd, owners of the place, said it takes 16.5 gallons of fuel to run the tractor for one irrigation of the 55 acres. At 10½ cents net for gasoline, they figure one irrigation costs approximately $25. The land is completely flooded through a dike system.

The irrigated land was laid out by G. H. Bingham, formerly associate extension agent on the Milk river irrigation project and now irrigation specialist of the Montana extension service. The dikes are 50 feet apart and the land leveled and graded to give ample drainage. A sump has been made in the drain area and a small lift pump installed to take water to a shelterbelt by the buildings. This pump has a 3-inch suction pipe and a 2½-inch discharge.

The farmers had 23 acres in alfalfa last year and this year have in 30 acres of Ladak alfalfa. The new alfalfa was seeded with 15 pounds of oats as a nurse crop. They may go into sugar beet production in a few years, as their land has been favorably reported and recommended for the crop. In addition to the irrigated land, Mr. Lebert and Mr. Lloyd farm 300 acres of dryland. While the pumping system is new, they feel that it will soon pay for itself in increased production.

This 10-inch flow of water irrigates 55 acres on the Lebert & Lloyd farm in Valley county.



A home-made centrifugal pump, designed by experiment station, irrigating a Phillips county garden spot.

They have a 639-foot artesian well on the place, from which water is piped through the house and wash house to the barn.

Two pumping plants are found on the Mathieson brothers farm in Blaine county. A garden is irrigated with a pump operated by an old automobile motor. This pump has a 2-inch intake and a 1½-inch discharge, lifting the water 18 feet from Milk river. An old fire hose is used from the pump to the garden.

One hundred twenty acres of good bottom land are irrigated with a centrifugal pump powered by an old "step ladder" steam tractor, this also being an 18-foot lift from the Milk river. They figure they can irrigate 500 acres through this system. This pump, with a 12-inch intake, pumps 2,700 gallons per minute and eight or nine men are required to handle the water when it is running through the ditches and outlets.

The Mathiesons feed a large number of cattle each winter on their place. They grow 75 acres of sugar beets and from 150 to 200 acres of alfalfa. Beet tops and pulp from the factory at

(Continued on Page 23)

PAINTING THE FARM BUILDINGS

APPRECIATING the fact that the farm is their home and that cleanliness and attractiveness go a long way toward making that home a better place in which to live, farmers in hundreds of Montana's farming communities this year applied paint to the surface of houses, barns, garages, poultry houses, granaries and other buildings.

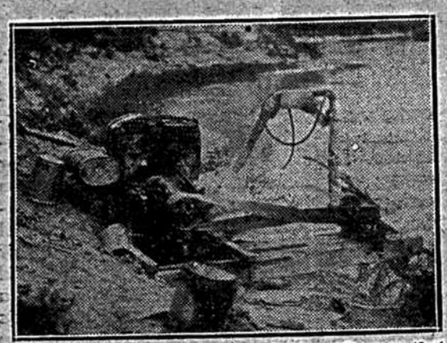
Many farmers follow a regular practice of applying paint every two years to their buildings, pointing out that it is more economical in the long run to keep the buildings in proper repair. It not only adds to the livability of the home, but should there come a time when the farmer wishes to retire or sell, well kept buildings will materially increase the sales value.

As Louis Kuehl of Hill county said, "Painting not only saves the surface of your buildings, but adds to the value of your place. After all, our farm is our home and the family is entitled to whatever we can do to make it more livable and comfortable."

Mr. Kuehl paints his entire set of buildings every two years and uses one of the best grades of paint he can purchase. In his opinion, it is cheaper to use a better grade paint, for it stands up longer under prevailing weather conditions. In the same community are a large number of farmers who follow a similar program. It is a pleasing sight to drive along a country highway and see farm after farm with well painted buildings and clear surroundings.

Invariably one finds a large and well kept shelterbelt near the buildings. Fences are in good repair and if machinery is not under cover it is conveniently lined up near the shop or barns. Tin cans or rubbish are not in evidence and in many instances there are well groomed lawns and shrubbery.

A picture of progress and pride presents itself when one looks at a farmstead that has been kept in repair and painted. In many instances the home may be but a two-room building and the other buildings correspondingly small, while in others there may be large dwellings and large barns. Some places are modern and others are not. But whether it be a one-room house or a 12-room house these farmers are making them more livable for their families and attractive to others.



This old automobile engine operates a small pump that irrigates a garden on the Mathieson Brothers' farm in Blaine county.

Here is Louis Kuehl of Hill county applying red paint to his barn.

OWNERSHIP

—OF—

WATER AND LAND

BY THE PEOPLE AND
FOR THE PEOPLE

For Mines and Irrigation

This century has surpassed all other ages combined in placing in the hands of a few manipulators the wealth of the people. Begun by Hamilton, the sage of centralized power, in the early part of this century, his followers have surely and steadily gathered, through legislation, the wealth of this country into the hands of corporations.

Is this to continue? Will the people of this magnificent young State enslave themselves by permitting the continuation of

The Corporate Rottenness

of the Nineteenth Century into the centuries to come? Hadn't the people better prepare now to begin the new century by turning over a new leaf inscribed as follows: "This is the first page of the second volume of the History of the Emancipation of the People from oppression. Freedom, begun by Washington, inlaid deep in the life of the world by Thomas Jefferson, fought for by Andrew Jackson, and for which the immortal Abraham Lincoln laid down his life."

Will the people make rich with golden results the volume we are now beginning? Will they heed the warning of that grand Democrat and sage, Lyman Trumbull, who said recently that the great danger to this government lies in the almost unlimited powers delegated by our Legislatures to corporations? Will they heed the misfortunes of California that is owned body and soul by the

Land and Water Lords?

California began, as we have begun, to donate to corporations the waters of the streams of that State. The lands were bought from the Government for $2.50 per acre and by the expenditure of some money water was conveyed to them. This land, worth nothing, became valuable, and, instead of the actual setlers deriving the land for $2.50 and building the canals, thus getting their water—at actual cost—they paid and are paying from $50 to $100 per acre for the land and from $10 to $100 per acre for the use of water that by the constitution of the State

Belongs to the People.

Why do not the people arouse themselves to the condition of things existing elsewhere? Why should not a poor man, for whom our Homestead Law was enacted, be allowed to take up 160 acres of Government land, go to the district water master and say to him that he wants water for his home, for farming purposes, and be charged only the actual cost of bringing such water to his land? Why should he not receive the benefit of an increase in the value of his land because of the construction of a canal? Why should he be compelled to pay tribute to a corporation, a corporation composed of men living in England, Holland, France or New York? If a corporation can afford to invest its money in a canal, a farming community can all the more surely afford the investment by themselves, because the farmer will retain the profits, which are the moneys received in excess of the cost of delivery of

water, thus saving to the people of the State millions of dollars each and every year that will otherwise go to foreigners and will become an everlasting tax upon our homes and our very existence.

Why should not the rich placers be supplied with water so that the millions of gold lying inactive in the sand can be placed in the pockets of our laboring men? Why should not the quartz mines

Be Supplied with Electric Power at Actual Cost?

These will be the results of a properly constructed bill drawn to avoid the errors of other communities and to develop our water supply for placer mines, farms, and water power that will furnish cheap power to operate the mines of this State.

The argument advanced in opposition to this plan by the organs of the corporations is that it will be such a horrible tax upon the people, to beware of schemers, of canal owners, etc. This is rot! rot! rot! all rot!

In answer to this charge we wish to assert that, first,

The Money Spent from Year to Year will Give Employment to Many Men of Many Trades at Good Wages.

Oats, hay, lumber, iron and hardware will be in demand at good prices. Miners, teams and teamsters, stone cutters and masons, carpenters, machinists and blacksmiths, common laborers, wood choppers, surveyors and civil engineers, printers and binders will be given employment.

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Tax!!! Why dear corporations and corporation organs, the present generation can stand a little tax for such an improvement if they receive in return good wages or $20 received for $1 paid out.

The next generation and the generations to come will, by reason of their ability to pay because of the enhanced value of their farms, and the enormous increase in the number of farms, the consequent increase in railroads, manufactories, mines of gold, silver and copper, coal and iron and the increase in general wealth, brought about by the building of these canals, gladly pay the small tax necessary to meet payments and thus in a few years have the canals fully paid for rather than hand over to

Private Corporations the Power to Assess and Tax not only to Pay the Cost of the Canals and the Operating Expenses, but

A Profit! A Profit!

Why! Men of Montana, do you not see what this means?

A Profit to Whom?

To Foreigners,

who are draining this country of its life blood.

To the organs of monopoly of corporate greed we say, Beware! The people have their eyes upon you.

In conclusion we place before you the names of the men who are pledged to this grand policy of the people being

their own masters, and the following is the platform upon which these men stand, a platform endowed with the elements of Freedom.

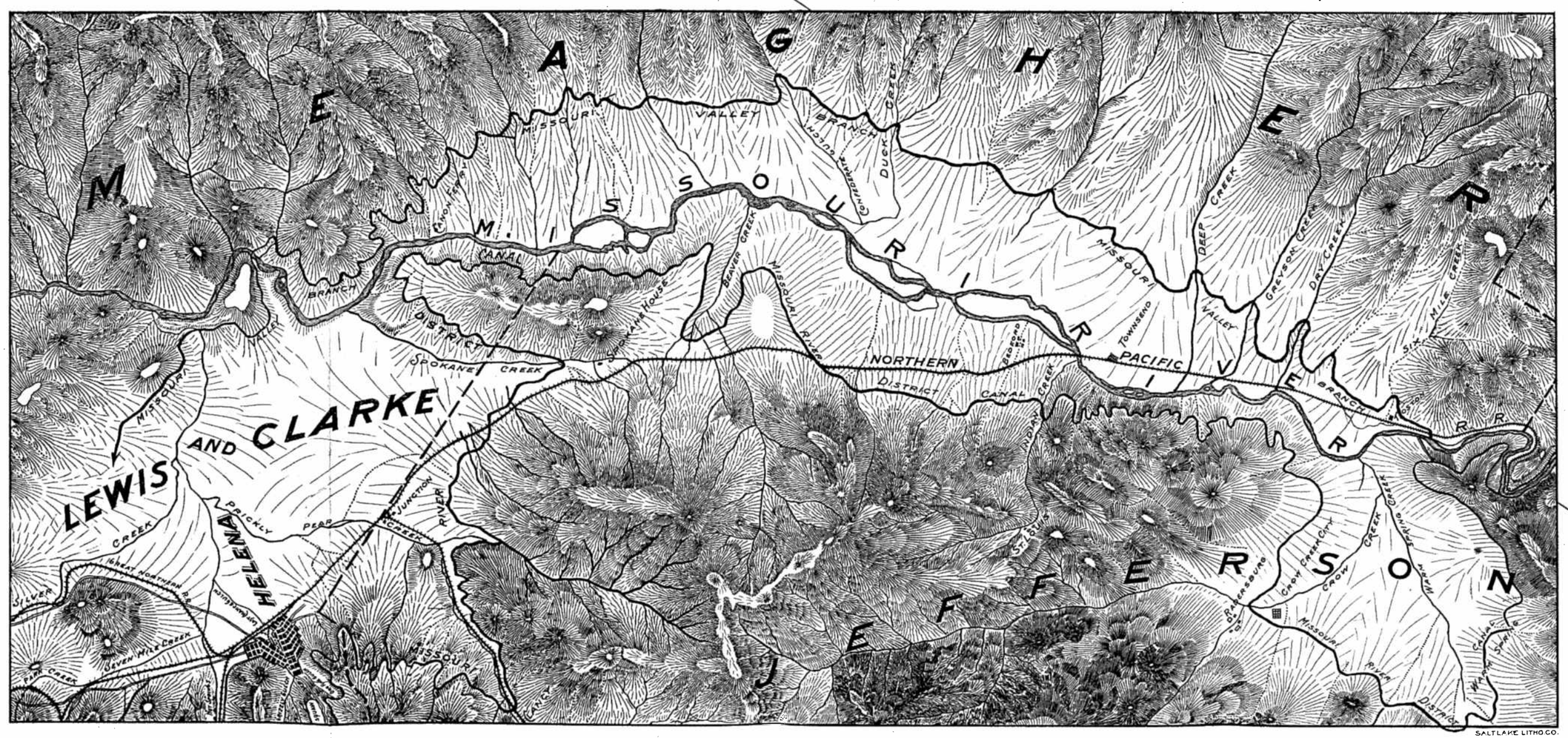
"We pledge our delegation in the legislature to the passage of such laws as will place in the hands of the people, without the intervention of private corporations, the necessary water supply for irrigation."

Because of this policy, because of your love for your children and your children's children, because o your duty to your country, vote for

A. J. Davidson,
D. R. Peeler,
James H. Murphy,
C. B. Nolan,
Geo. F. Cope,
Nich. Hilger,
J. P. McCabe and
W. Green Preuitt,

To look after your interests and pass a bill that will prevent corporations owning this fair commonwealth; that will prevent fraud and corruption in any form and that will not enslave the people for all time to come.

Donald Bradford,
Chairman.



Scale 1 inch - 4 miles.

THIS IS A MAP OF THE MISSOURI, CROW CREEK AND PRICKLEY PEAR VALLEYS, showing approximately the manner in which the same will be covered by a canal constructed under the bill proposed to be presented to the Legislature. There will be magnificent opportunities for exemplifying the wisdom of such a law in the great Yellowstone Valley, the Milk, Sun, Beaverhead, Gallatin, Bitter Root and Deer Lodge Valleys, opening up homes for a population that will supply the homes of the miners with the choicest fruits, vegetables and meats.

Montana Department of Fish, Wildlife & Parks

Historical Society Library
225 North Roberts
Helena, MT 59620

Contact Person: Dave Walter (406)444-2681

This is a closed stack library. The only interlibrary loan service offered is on newspaper microfilm. All research must be done in the library reading room.

HANS L. BILLIE PAPERS

Manuscript Collection 219

Inventory

Box-Folder		Contents	Dates
		Subject Files:	
1	1	Flathead Irrigation Project	1938, 1962
	2	"Fort Belknap Indian Reservation Irrigation District"	1966, n.d.
	3-4	"Milk River Project Annual Project History"	1955
	5-6	Tongue River Project	1967-1968
	7	Yellowstone River Compact	1937-1941
		Miscellany:	
	8	"Adjudicated Streams (decrees) State of Montana" (includes case number, name of stream, decree numbers, miner's inches, and township and range)	n.d.
	9	Decreed Water Rights in Montana (Beaverhead, Big Horn, Broadwater, Carbon, Cascade, Chouteau, Custer, Deer Lodge, Fergus, Fergus and Petroleum, Fergus and Golden Valley, Fergus and Judith Basin, Gallatin, Granite, Jefferson, Judith Basin, Lewis and Clark, Madison, Missoula, Park, Petroleum, Powell, Ravalli, Stillwater, Sweet Grass, Teton, Toole, Wheatland, Yellowstone counties; includes case number, stream name, miner's inches, second feet, and acres irrigated)	n.d.
	10	"Decreed Water Rights Montana," compiled by Montana State College Agricultural Experiment Station [1] ("Distribution of Water Rights on the West Gallatin River According to Priority"; "Decreed Water Rights in Montana by County Unpublished Data Compiled by the Irrigation Department Montana Agricultural Experiment Station")	n.d.
	11	"Decreed Water Rights Montana" [2] (Beaverhead, Big Horn, Broadwater, Carbon, Cascade, Chouteau, Custer, Deer Lodge counties; includes case number and title, name of stream, year of priority, amount of water decreed, use, and acres irrigable)	1941

Box-Folder		Contents	Dates
		Miscellany (continued):	
2	1	"Decreed Water Rights Montana" [3] (Fergus, Fergus and Judith Basin, Fergus and Golden Valley, Gallatin, Granite, Jefferson, Judith Basin, Lewis and Clark, Madison, and Missoula counties; includes case decreed, use, and acres irrigable)	1941
	2	"Decreed Water Rights Montana" [4] (Park, Petroleum, Powell, Ravalli, Sanders, Stillwater, Sweet Grass, Teton, Toole, Wheatland, Yellowstone counties; includes case number and title, name of stream, year of priority, amount of water decreed, use, and acres irrigable)	1941
	3	Decreed Water Rights: Gallatin County (includes index of decrees, decrees arranged alphabetically by stream, name of person to whom decreed, legal land description, name of ditch, date of priority, present owner, and miner's inches)	1953
	4	Decreed Water Rights: Madison County (index to decreed cases of streams tributary to the Madison, Jefferson, Big Hole, West Gallatin, Beaverhead, and Ruby Rivers, and ditch cases of Beaverhead, Big Hole, Jefferson, and Madison rivers)	1954
	5	Decreed Water Rights: Madison County (decreed cases of streams tributary Madison, Jefferson, Big Hole, and West Gallatin rivers; includes person to whom decreed, legal land description, name of ditch, date of priority, and miner's inches)	c.1954
	6	Decreed Water Rights: Madison County (decreed cases of streams tributary to Beaverhead and Ruby rivers; includes name of person to whom decreed, legal land description, name of ditch; date of priority, and miner's inches)	c.1954
	7	Decreed Water Rights: Madison County (decreed ditch cases of Beaverhead, Big Hole, Jefferson, and Madison rivers; includes name of person to whom decreed, legal land description, name of ditch, date of priority, and miner's inches)	c.1954
	8	Decreed Water Rights: Ravalli County (includes index by stream; case number, date, and title; name of person to whom decreed; land description; date of priority; miner's inches; and owner at time of case; pp. 1-154)	n.d.
	9	Decreed Water Rights: Ravalli County (includes index by stream; case number, date and title; name of person to whom decreed; land description; date of priority; miner's inches; and owner owner of time of case; pp. 155-276)	n.d.

Box-Folder		Contents	Dates
		Miscellany (continued):	
2	10	Miscellaneous (re Montana water law; tribal water rights; Bighorn Bighorn River water allocation; Eastern Montana Basin Study; and Montana surface water coordinator job)	1937-1943 1971; n.d.

Montana Department of Fish, Wildlife & Parks

Historical Society Library
225 North Roberts
Helena, MT 59620

Contact Person: Dave Walter (406)444-2681

This is a closed stack library. The only interlibrary loan service offered is on newspaper microfilm. All research must be done in the library reading room.

PAM
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YELLOWSTONE RIVER wstone River Pumping Units.
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Summarized uri River Basin Project. Yellowstone Division.
administrati uri-Souris Project.
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Region, 194 River Project.
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YELLOWSTONE RIVER PUMPING UNITS. ELM COULEE UNIT.

PAM
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YELLOWSTONE **issouri River Basin Studies.**
A report on fish and wildlife resources in relation to
United States he water development plan for the Elm Coulee Unit,
Summarized ellowstone River Pumping Units, Yellowstone River,
administrati lontana, Missouri River Basin. -- Billings : Missouri
Stipek Unit, River Basin Studies, Fish and Wildlife Service, 1947.
1948. 5, [2] leaves : ill., map ; 27 cm.
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Cover tit 1. Fishes--Yellowstone River. 2. Wildlife Conservation--
"Yellowst Richland County (Mont.) 3. Water Resources Development--
1. Irrig Richland County (Mont.) 4. Yellowstone River Pumping
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YELLOWSTONE RIVER PUMPING UNITS. MARSH UNIT.

Missouri River Basin Studies.
A preliminary evaluation report on the fish and wildlife resources in relation to the water development plan for the Marsh Unit, Yellowstone River Pumping Units, Yellowstone River, Montana, Missouri River Basin / field work and report by Missouri River Basin Studies, Fish and Wildlife Service. -- Billings, Mont. : The Author, 1948.
6 leaves ; 27 cm.
1. Fishes--Yellowstone River. 2. Wildlife Conservation--Dawson County (Mont.) 3. Water Resources Development--Dawson County nt.) 4. Yellowstone River Pumping Units. Marsh Unit. I. Title.

Curt Martin's Library

Curt Martin, Water Planning Section Supervisor
Water Management Bureau
Department of Natural Resources and Conservation
1520 E. Sixth Avenue
Helena, MT 59620
(406)444-6637

Summarizing the Milk River Water Supply Study: Bureau of Reclamation
- Environmental Appendix, July 1990
- Hydrology Assessment
- Social Assessment
- Engineering Appendix (Two)
- Milk River Drainage Report (includes Rocky Boys Lands Appendix, Big Sandy Valley Lands Appendix, Milk River Lands Appendix)

4 Vols.: Feasibility Report on Marias-Milk Unit - Milk Division
Appendices : A & B; C & D; D,F,G, & H (all 1971)

Resolving International Issues on Water Management on the Milk River Basin - June 1988 - Final Report to Montana-Western Canadian Provinces Boundary Advisory Committee - 49th Parallel Institute, MSU

1902 Reclamation Act & State Water Law, The Battle for control of Montana Reserved Waters, Eddye McClure, U of M, School of Law 1986

Fort Peck Montana Compact - A water rights settlement negotiated by Montana Reserved Water Rights Compact Commission

Reclamation and development grants program. January 1991, DNRC

Loans under the small reclamation projects act of 1956, Bureau of Reclamation, Sept. 1988

Flood of June 1964 in the Oldman & Milk River Basin, Alberta

Water Quality Inventory & Management Plan - Milk River Basin. Water Quality Bureau, 1974, by Bloom, Botz

Glasgow Diversion Milk River Project, Feb. 1988, Bureau of Reclamation, Billings

Milk River Water Supply Study, Plan Formulation Working Document, Bureau of Reclamation, c1987

Milk River Water Supply Plan, Phase I, Bureau of Reclamation, March 1984

Montana Department of Fish, Wildlife & Parks

United States
Department of the Interior
Bureau of Reclamation
P.O. Box 36900
Billings, MT 59107-6900

Contact Person: Lynnette Knitps (406)657-6434

Report on Table: lynn

Title: ACCESS ROAD CONSTRUCTION - FRESNO RESERVOIR, SPEC 60-C0046
Arms_class: ACM-3.00
Cutter_no: F886 Acc_no: 2699
Keyword: MILK RIVER PROJECT

Title: ACCESS ROAD CONSTRUCTION - WILLOW CREEK RESERVOIR - SUN RIVER PROJECT AND FRESNO RESERVOIR - MILK RIVER PROJECT, SPEC 60-C0043
Arms_class: ACM-3.00
Cutter_no: W739 Acc_no: 2667
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT - REPORT OF MILK RIVER FLOOD, 1952, VOL. LV
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9471
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, 1949, VOL. LI
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9467
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, 1950, VOL. LII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9468
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, 1951, VOL. LIII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9469
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, 1952, VOL. LIV
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9470
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, 1953, VOL. LVI
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9473
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1954, VOL. LVII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9474
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1955, VOL. LVIII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9475
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1956, VOL. LIX
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9476

Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1957, VOL. LX
Arms_class: ADM-12.0
Cutter_no: M644 Acc_no: 9477
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1958, VOL. LXI
Arms_class: ADM-12.0(
Cutter_no: M644 Acc_no: 9478
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1959, VOL. LXII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9479
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1959, VOL. LXII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9480
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1960, VOL. LXIII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9481
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1961, VOL. LXIV
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9489
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1962, VOL. LXV
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9490
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1963, VOL. LXVI
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9491
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1964, VOL. LXVII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9492
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1965, VOL. LXVIII
Arms_class: ADM-12.00

Cutter_no: M644 Acc_no: 9493
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1966, VOL. LXIX Arms_class: ADM-12.
Cutter_no: M644 Acc_no: 9494
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1967, VOL. LXX Arms_class: ADM-12.
Cutter_no: M644 Acc_no: 9495
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1968, VOL. LXXI Arms_class: ADM-12.0
Cutter_no: M644 Acc_no: 9496
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1969, VOL. LXXII Arms_class: ADM-12.0
Cutter_no: M644 Acc_no: 9497
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1970, VOL. LXXIII Arms_class: ADM-12.0
Cutter_no: M644 Acc_no: 9498
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1971, VOL. LXXIV Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9499
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1972, VOL. LXXV Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9500
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1973, VOL. LXXVI Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9501
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1974, VOL. LXXVII Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9504
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1975, Arms_class: ADM-12.00

VOL. LXXVIII
Cutter_no: M644 Acc_no: 9505
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1976, VOL. LXXVIV Arms_class: ADM-12.0
Cutter_no: M644 Acc_no: 9506
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY - MILK RIVER PROJECT, CALENDAR YEAR 1978, VOL. LXXXI Arms_class: ADM-12.0
Cutter_no: M644 Acc_no: 9507
Keyword: MILK RIVER PROJECT

Title: ANNUAL PROJECT HISTORY, MILK RIVER PROJECT, MONTANA, CALENDAR YEAR 1980 VOLUME LXXXIII, (NOT FOR PUBLICATION) Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 12685
Keyword: MILK RIVER PROJECT

Title: APPENDICES A AND B - TO THE REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK RIVERS - 1985 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8951
Keyword: MILK RIVERS

Title: APPENDICES A AND B TO THE REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF ST, MARY AND MILK RIVERS Arms_class: RES-3.10
Cutter_no: S146 Acc_no: 5761
Keyword: MILK RIVERS

Title: APPENDICES A AND B TO THE REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK RIVERS - 1982 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8945
Keyword: MILK RIVER

Title: APPENDICES A AND B TO THE REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK RIVERS - 1983 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8947
Keyword: MILK RIVER

Title: APPENDICES A AND B TO THE REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK RIVERS - 1984 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8949
Keyword: MILK RIVERS

Title: APPENDICES A AND B TO THE REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK RIVERS - 1986 Arms_class: WTR-4.10

Cutter_no: S146 Acc_no: 8953
Keyword: MILK RIVER

Title: APPENDICES A AND B TO THE REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK RIVERS - 1987 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8955
Keyword: MILK RIVER

Title: APPENDIXES TO FEASIBILITY REPORT ON MARIAS-MILK UNIT, MILK DIVISION, PICK-SLOAN MISSOURI BASIN PROGRAM, MONTANA Arms_class: PRJ-8.00
Cutter_no: M333 Acc_no: 6087
Keyword: MILK DIVISION

Title: APPENDIXES TO FEASIBILITY REPORT ON MARIAS-MILK UNIT, MILK DIVISION, PICK-SLOAN MISSOURI BASIN PROGRAM, MONTANA, APPENDIXES A AND B Arms_class: PRJ-8.00
Cutter_no: M333 Acc_no: 6085
Keyword: MILK DIVISION

Title: APPENDIXES TO FEASIBILITY REPORT ON MARIAS-MILK UNIT, MILK DIVISION, PICK-SLOAN MISSOURI BASIN PROGRAM, MONTANA, APPENDIXES C AND D Arms_class: PRJ-8.00
Cutter_no: M333 Acc_no: 6086
Keyword: MILK DIVISION

Title: ASPHALTIC MEMBRANE LINING FOR VANDALIA SOUTH CANAL - STATIONS 146+79.85TO 154+40, SPEC 604C-25 Arms_class: ACM-3.00
Cutter_no: V224 Acc_no: 4427
Keyword: MILK RIVER PROJECT

Title: ASPHALTIC MEMBRANE LINING FOR VANDALIA SOUTH CANAL STATIONS 128+10 TO 132+44.5, SPEC 604C-21 Arms_class: ACM-3.00
Cutter_no: V224 Acc_no: 4347
Keyword: MILK RIVER PROJECT

Title: ASSESSMENT OF POTENTIAL FISHERIES IMPACTS ASSOCIATED WITH THE MILK RIVER WATER SUPPLY PROJECT Arms_class: ENV-4.00
Cutter_no: M644 Acc_no: 5963
Keyword: MILK RIVER UNIT

Title: BIG SANDY CANAL AND LATERALS, SUPPORTING DATA, MARIAS-MILK UNIT Arms_class: PRJ-15.00
Cutter_no: B592 Acc_no: 15021
Keyword: MILK DIVISION

Title: BOAT RAMP PARKING & ACCESS ROADS - BOOTLEGGER TRAIL - LAKE ELWELL - MARIAS DIVISION - LOWER MARIAS UNIT & FRESNO RESERVOIR, SPEC 60-C0067 Arms_class: ACM-3.00
Cutter_no: L192 Acc_no: 2766
Keyword: MILK RIVER PROJECT

Title: BOAT RAMPS - CLARK CANYON RESERVOIR - EAST BENCH UNIT - PICK-SLOAN MISSOURI BASIN PROGRAM AND FRESNO RESERVOIR, SPEC 60-C0016 Arms_class: ACM-3.00
Cutter_no: C592 Acc_no: 2582
Keyword: MILK RIVER PROJECT

Title: CENTRAL MARIAS LATERALS BLOCK STUDY, SUPPORTING DATA, MARIAS-MILK UNIT Arms_class: PRJ-15.0
Cutter_no: M333 Acc_no: 15025
Keyword: MILK DIVISION

Title: CONDITION OF MAJOR IRRIGATION STRUCTURES AND FACILITIES, REGION 6, 1962 Arms_class: PRJ-2.00
Cutter_no: I71 Acc_no: 15803
Keyword: MILK RIVER PROJECT

Title: CONDITION OF MAJOR PUMPING PLANTS, REGION 6, BUFFALO RAPIDS, BUFORD-TRENTON, HUNTLEY, INTAKE, LOWER YELLOWSTONE, MILK RIVER PROJECTS Arms_class: PRJ-15.00
Cutter_no: C745 Acc_no: 15415
Keyword: MILK RIVER PROJECT

Title: CONSTRUCTION GEOLOGIC REPORT FOR THE MODIFICATION OF THE LAKE SHERBURNEDAM Arms_class: PRJ-10.00
Cutter_no: L192 Acc_no: 15665
Keyword: MILK RIVER PROJECT

Title: CONTRACT DRAWINGS - MAIN CANAL - ST. MARY PROJECT, MONTANA Arms_class: ACM-3.00
Cutter_no: S133 Acc_no: 1431
Keyword: MILK RIVER PROJECT

Title: CULTURAL RESOURCE INVENTORY OF THE MILK-MISSOURI RIVER CANAL ROUTE, NORTHERN MONTANA Arms_class: ENV-3.00
Cutter_no: M644 Acc_no: 9080
Keyword: MILK-MISSOURI RIVER CANAL

Title: CULVERT, CHECKS AND WASTEWAY - STATIONS 880+00, 1222+00 AND 1872+50 - VANDALIA SOUTH CANAL, SPEC 604C-29 Arms_class: ACM-3.00
Cutter_no: V224 Acc_no: 4432
Keyword: MILK RIVER PROJECT

Title: DETAILED TABULATIONS, LAND CLASSIFICATION DATA, MALTA DIVISION, MILK RIVER PROJECT, MONTANA Arms_class: LND-9.00
Cutter_no: M261 Acc_no: 6329
Keyword: MILK RIVER PROJECT

Title: DIKE REPAIR AND RIPRAP, SPEC 604C-60 Arms_class: ACM-3.00
Cutter_no: D576 Acc_no: 4594
Keyword: MILK RIVER PROJECT, MONTANA

Title: DODSON PUMPING PLANT AND EARTHWORK AND STRUCTURES, DODSON PUMP CANAL AND LATERALS, MILK RIVER PROJECT, SPECIFICATIONS NO. 1806-D
Arms_class: ACM-3.00
Cutter_no: M644 Acc_no: 1534
Keyword: MILK RIVER PROJECT

Title: DODSON PUMPING PLANT AND EARTHWORK AND STRUCTURES, DODSON PUMP CANAL AND LATERALS, MILK RIVER PROJECT, SPECIFICATIONS NO. 1814-D
Arms_class: ACM-3.00
Cutter_no: M644 Acc_no: 1538
Keyword: MILK RIVER PROJECT

Title: ENGINEERING REPORT, MILK RIVER BASIN STUDY
Arms_class: PRJ-23.00
Cutter_no: M644 Acc_no: 5967
Keyword: MILK RIVER

Title: ENGINEERING REPORT, MILK RIVER BASIN STUDY
Arms_class: PRJ-23.00
Cutter_no: M644 Acc_no: 5967
Keyword: MILK RIVER BASIN

Title: ENGINEERING REPORT, MILK RIVER BASIN STUDY (1980)
Arms_class: PRJ-23.00
Cutter_no: M644 Acc_no: 6339
Keyword: MILK RIVER

Title: ENGINEERING REPORT, MILK RIVER BASIN STUDY (1980)
Arms_class: PRJ-23.00
Cutter_no: M644 Acc_no: 6339
Keyword: MILK RIVER BASIN STUDY

Title: FEASIBILITY REPORT ON MARIAS-MILK UNIT, MILK DIVISION, PICK-SLOAN MISSOURI BASIN PROGRAM, MONTANA
Arms_class: PRJ-8.00
Cutter_no: M333 Acc_no: 6084
Keyword: MILK DIVISION

Title: FEATURE HISTORY - SHERBURNE LAKES RESERVOIR DAM, ST. MARY'S STORAGE UNIT, MILK RIVER PROJECT, 1914, VOL. X
Arms_class: ADM-12.00
Cutter_no: S551 Acc_no: 9502
Keyword: MILK RIVER PROJECT

Title: FEATURE HISTORY - SHERBURNE LAKES RESERVOIR DAM, ST. MARY'S STORAGE UNIT, MILK RIVER PROJECT, 1915, VOL. XI
Arms_class: ADM-12.00
Cutter_no: S551 Acc_no: 9407
Keyword: MILK RIVER PROJECT

Title: FEATURE HISTORY - SHERBURNE LAKES RESERVOIR DAM, ST. MARY'S STORAGE UNIT, MILK RIVER PROJECT, 1916, VOL. XVI
Arms_class: ADM-12.00

Cutter_no: S551 Acc_no: 9414
Keyword; MILK RIVER PROJECT

Title: FEATURE HISTORY - SHERBURNE LAKES RESERVOIR DAM, ST. MARY'S STORAGE UNIT, MILK RIVER PROJECT, 1917, VOL. XVIII Arms_class: ADM-12.0
Cutter_no: S551 Acc_no: 9503
Keyword: MILK RIVER PROJECT

Title: FEATURE HISTORY - SHERBURNE LAKES RESERVOIR DAM, ST. MARY'S STORAGE UNIT, MILK RIVER PROJECT, 1918, VOL. XX Arms_class: ADM-12.0(
Cutter_no: S551 Acc_no: 9421
Keyword: MILK RIVER PROJECT

Title: FEATURE HISTORY - ST. MARY'S STORAGE UNIT OF MILK RIVER PROJECT, 1915, VOL. XII Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9408
Keyword: MILK RIVER PROJECT

Title: FEATURE HISTORY - ST. MARY'S STORAGE UNIT OF MILK RIVER PROJECT, 1915, VOL. XIV Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9410
Keyword: MILK RIVER PROJECT

Title: FEATURE HISTORY - ST. MARY'S STORAGE UNIT OF MILK RIVER PROJECT, 1915, VOL. XV Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9411
Keyword: MILK RIVER PROJECT

Title: FEATURE HISTORY - ST. MARY'S STORAGE UNIT, MILK RIVER PROJECT, 1915, VOL. XIII Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9409
Keyword: MILK RIVER PROJECT

Title: FINAL CONSTRUCTION REPORT ON FRESNO DAM SPILLWAY REPAIR, SPEC. #DC-4019MILK RIVER PROJECT Arms_class: ACM-3.00
Cutter_no: F886 Acc_no: 1613
Keyword: MILK RIVER PROJECT

Title: FINAL CONSTRUCTION REPORT, PARADISE DIVERSION DAM, CHINOOK DIVISION, MONTANA, MILK RIVER PROJECT Arms_class: PRJ-13.00
Cutter_no: P222 Acc_no: 5965
Keyword: MILK RIVER PROJECT

Title: FINAL CONSTRUCTION REPORT, PARADISE DIVERSION DAM, MILK RIVER PROJECT, MONTANA Arms_class: PRJ-13.00
Cutter_no: P222 Acc_no: 6139
Keyword: MILK RIVER PROJECT

Title: FINAL REPORT ON DESIGN AND CONSTRUCTION OF FRESNO DAM, MILK RIVER PROJECT, MONTANA Arms_class: PRJ-13.00

Cutter_no: F886 Acc_no: 15317
Keyword; MILK RIVER PROJECT

Title: FISH AND WILDLIFE COORDINATION ACT REPORT FOR THE MALTA REHABILITATION AND BETTERMENT PROJECT, MONTANA Arms_class: ENV-4.00
Cutter_no: M261 Acc_no: 7160
Keyword: MILK RIVER PROJECT

Title: FRESNO DAM, MILK RIVER PROJECT, SPECIFICATIONS NO. 692 Arms_class: ACM-3.00
Cutter_no: M644 Acc_no: 1454
Keyword: MILK RIVER PROJECT

Title: FRESNO RESERVOIR Arms_class: PRJ-13.00
Cutter_no: F884 Acc_no: 324
Keyword: MILK RIVER

Title: FURNISHING AND ERECTING CABLEWAY - PARADISE DIVERSION DAM, SPEC 604C-39(SF) Arms_class: ACM-3.00
Cutter_no: P222 Acc_no: 4484
Keyword: MILK RIVER PROJECT

Title: GENERAL GEOLOGY OF THE ST. MARY-MILK RIVER, AND ALL-AMERICAN TUNNEL ANDCANAL PROJECT AREAS Arms_class: PRJ-10.00
Cutter_no: S146 Acc_no: 15621
Keyword: MILK RIVER

Title: GENERAL RECONNAISSANCE REHABILITATION SURVEY AND REPORT OF THE CHINOOK DIVISION, MILK RIVER PROJECT, MONTANA Arms_class: PRJ-8.00
Cutter_no: M644 Acc_no: 6340
Keyword: MILK RIVER

Title: GENERAL RECONNAISSANCE REHABILITATION SURVEY AND REPORT OF THE CHINOOK DIVISION, MILK RIVER PROJECT, MONTANA Arms_class: PRJ-8.00
Cutter_no: M644 Acc_no: 6340
Keyword: MILK RIVER PROJECT

Title: GEOLOGIC AND CONSTRUCTION MATERIALS REPORT WITH CANAL LINING RECOMMENDATIONS FOR THE MILK RIVER WATER SUPPLY STUDY Arms_class: PRJ-10.00
Cutter_no: M644 Acc_no: 15658
Keyword: MILK DIVISION

Title: GEOLOGIC AND CONSTRUCTION MATERIALS REPORT WITH CANAL LINING RECOMMENDATIONS FOR THE MILK RIVER WATER SUPPLY STUDY Arms_class: PRJ-10.00
Cutter_no: M644 Acc_no: 15658
Keyword: MILK RIVER

Title: GEOLOGIC AND GROUNDWATER REPORT ON A PORTION OF THE DODSON SOUTH CANAL NEAR LAKE BOWDOIN, MILK RIVER PROJECT, MONTANA
Arms_class: PRJ-10.0
Cutter_no: G882 Acc_no: 17932
Keyword: MILK RIVER PROJECT

Title: GEOLOGIC AND MATERIALS RECONNAISSANCE REPORT FOR THE MILK RIVER AREA DAMSITES AND THE VIRGELLE PUMPING PLANT SITE
Arms_class: PRJ-10.0
Cutter_no: M644 Acc_no: 15664
Keyword: MILK RIVER PROJECT

Title: GEOLOGIC AND MATERIALS RECONNAISSANCE REPORT FOR THE MILK RIVER AREA DAMSITES AND THE VIRGELLE PUMPING PLANT SITE - MONTANA
Arms_class: PRJ-10.00
Cutter_no: M644 Acc_no: 12755
Keyword: MILK RIVER AREA DAMSITE

Title: GEOLOGIC DATA REPORT, LAKE SHERBURNE DAM
Arms_class: PRJ-10.00
Cutter_no: L192 Acc_no: 15656
Keyword: MILK RIVER PROJECT

Title: GEOLOGIC DESIGN DATA REPORT, LAKE SHERBURNE DAM, DAM MODIFICATION
Arms_class: PRJ-10.00
Cutter_no: S553 Acc_no: 15648
Keyword: MILK RIVER PROJECT

Title: GEOLOGIC INVESTIGATIONS PROGRAM FOR FRESNO DAM, MILK RIVER PROJECT, MONTANA
Arms_class: PRJ-10.00
Cutter_no: F886 Acc_no: 15340
Keyword: MILK RIVER PROJECT

Title: GEOLOGIC REPORT ON THE MODIFICATION OF SHERBURNE LAKES DAM AND SPILLWAY
Arms_class: PRJ-10.00
Cutter_no: S551 Acc_no: 15647
Keyword: MILK RIVER PROJECT

Title: GEOLOGIC REPORT ON THE MODIFICATION OF SHERBURNE LAKES DAM AND SPILLWAY
Arms_class: PRJ-10.00
Cutter_no: S551 Acc_no: 15668
Keyword: MILK RIVER PROJECT

Title: GEOLOGY AND CONSTRUCTION MATERIALS REPORT FOR THE BOGGS ISLAND PUMPING PLANT AND SURGE TANK SITES
Arms_class: PRJ-10.00
Cutter_no: B674 Acc_no: 15657
Keyword: MILK DIVISION

Title: GEOLOGY AND CONSTRUCTION MATERIALS REPORT FOR THE BOGGS ISLAND PUMPING PLANT AND SURGE TANK SITES
Arms_class: PRJ-10.00
Cutter_no: B674 Acc_no: 15657
Keyword: MILK RIVER WATER SUPPLY STUDY

Title: GEOLOGY AND CONSTRUCTION MATERIALS REPORT WITH CANAL LINING RECOMMENDA-TIONS FOR THE MILK RIVER
Arms_class: PRJ-10.00

WATER SUPPLY STUDY, MILK DIVISION, MONTANA
Cutter_no: M644 Acc_no: 13717
Keyword: MILK DIVISION

Title: GEOLOGY AND CONSTRUCTION MATERIALS REPORT WITH CANAL LINING RECOMMENDA-TIONS FOR THE MILK RIVER WATER SUPPLY STUDY, MILK DIVISION, MONTANA Arms_class: PRJ-10.0
Cutter_no: M644 Acc_no: 13717
Keyword: MILK RIVER

Title: GEOLOGY DESIGN DATA, LAKE SHERBURNE DAM, MILK RIVER PROJECT, MONTANA, DAM MODIFICATION Arms_class: PRJ-10.0
Cutter_no: L192 Acc_no: 15620
Keyword: MILK RIVER PROJECT

Title: GLASGOW BENCH DIVISION OF MILK DIVISION, VOLUME 14, SUPPORTING DATA, PROJECT INVESTIGATIONS REPORT NO. 66 Arms_class: PRJ-3.00
Cutter_no: G548 Acc_no: 15010
Keyword: MILK DIVISION

Title: HAY COULEE SIPHON, SPEC 604C-27 Arms_class: ACM-3.00
Cutter_no: H412 Acc_no: 4430
Keyword: MILK RIVER PROJECT

Title: HIGH-PRESSURE GATE VALVES FOR OUTLET WORKS AT SHERBURNE LAKES DAM, SPECIFICATION #DS-5131 Arms_class: ACM-3.00
Cutter_no: S551 Acc_no: 1157
Keyword: MILK RIVER PROJECT

Title: LAKE SHERBURNE DAM MODEL STUDY, REPORT GR-82-15 Arms_class: PRJ-13.00
Cutter_no: L192 Acc_no: 6334
Keyword: MILK RIVER PROJECT

Title: LAKE SHERBURNE DAM MODIFICATION, SPEC 6D-C7502 Arms_class: ACM-3.00
Cutter_no: L192 Acc_no: 1804
Keyword: MILK RIVER PROJECT

Title: LAKE SHERBURNE DAM STRUCTURAL BEHAVIOR REPORT Arms_class: PRJ-13.00
Cutter_no: L192 Acc_no: 15662
Keyword: MILK RIVER PROJECT

Title: LAKE SHERBURNE DAM, INCLINOMETER AND MEASUREMENT POINT SUMMARY Arms_class: PRJ-13.00
Cutter_no: S551 Acc_no: 15669
Keyword: MILK RIVER PROJECT

Title: LAKE SHERBURNE DAM, MILK RIVER PROJECT, MONTANA, DAM MODIFICATION Arms_class: PRJ-13.00
Cutter_no: L192 Acc_no: 16932

Keyword: MILK RIVER PROJECT

Title: LAND CLASSIFICATION REPORT, DODSON PUMPING UNIT, MILK RIVER PROJECT, MONTANA
Arms_class: LND-9.00
Cutter_no: D647 Acc_no: 5968
Keyword: MILK RIVER PROJECT

Title: LAND CLASSIFICATION REPORT, DODSON PUMPING UNIT, MILK RIVER PROJECT, MONTANA
Arms_class: LND-9.00
Cutter_no: D647 Acc_no: 5969
Keyword: MILK RIVER PROJECT

Title: MARIAS-MILK CANAL SUPPORTING DATA, MARIAS-MILK UNIT
Arms_class: PRJ-15.00
Cutter_no: M333 Acc_no: 15023
Keyword: MILK DIVISION

Title: MARIAS-MILK CANAL SUPPORTING DATA, STRUCTURES, CROSS-DRAINAGE
Arms_class: PRJ-15.00
Cutter_no: M333 Acc_no: 15020
Keyword: MILK DIVISION

Title: MILK RIVER AREA, LAND PLANNING AND CLASSIFICATION REPORT, PUBLIC LANDS, MONTANA
Arms_class: LND-9.00
Cutter_no: M644 Acc_no: 5749
Keyword: MILK RIVER AREA

Title: MILK RIVER AREA, LAND PLANNING AND CLASSIFICATION REPORT, PUBLIC LANDS, MONTANA
Arms_class: LND-9.00
Cutter_no: M644 Acc_no: 5749
Keyword: MILK RIVER PROJECT

Title: MILK RIVER BASIN PLANNING STUDY
Arms_class: PRJ-8.00
Cutter_no: M644 Acc_no: 6136
Keyword: MILK RIVER

Title: MILK RIVER BASIN REPORT, SUPPORTING DATA, VOLUME 1, MONTANA
Arms_class: PRJ-3.00
Cutter_no: M644 Acc_no: 10118
Keyword: MILK RIVER BASIN

Title: MILK RIVER LEGISLATION
Arms_class: LAW-3.00
Cutter_no: M644 Acc_no: 5962
Keyword: MILK RIVER UNIT

Title: MILK RIVER PROJECT - HISTORY OF THE CONSTRUCTION OF SHERBURNE LAKES RESERVOIR DAM, 1924
Arms_class: ADM-12.00
Cutter_no: S551 Acc_no: 9445
Keyword: MILK RIVER PROJECT

Title: MILK RIVER PROJECT - MONTANA - WATER SUPPY REPORT ADDENDUM - JANUARY 1962
Arms_class: RES-3.10
Cutter_no: M644 Acc_no: 7126
Keyword: MILK RIVER PROJECT

Title: MILK RIVER PROJECT - WATER SUPPLY
Arms_class: RES-3.10
Cutter_no: M644 Acc_no: 590
Keyword: MILK RIVER

Title: MILK RIVER PROJECT WATER MEASUREMENT DATA, SUMMER 1986
Arms_class: PRJ-23.00
Cutter_no: M644 Acc_no: 14275
Keyword: MILK RIVER PROJECT

Title: MILK RIVER PROJECT, DODSON PUMPING PLANT, PUMPING UNIT & SECOND PUMPINGUNIT FOR DODSON PUMPING PLANT, SPECS. #1806-D, 1807-D, 1814-D, 1815-D
Arms_class: ACM-3.00
Cutter_no: M644 Acc_no: 1533
Keyword: MILK RIVER PROJECT

Title: MILK RIVER PROJECT, WATER MEASUREMENT DATA, SUMMER 1986
Arms_class: RES-3.00
Cutter_no: M644 Acc_no: 17264
Keyword: MILK RIVER PROJECT

Title: MILK RIVER WATER SUPPLY STUDY, MONTANA, REGIONAL DIRECTOR'S PLANNING REPORT/ENVIRONMENTAL STATEMENT AND PRECONSTRUCTION REPORT
Arms_class: RES-3.10
Cutter_no: M644 Acc_no: 7163
Keyword: MILK RIVER PROJECT

Title: MODIFICATION OF LAKE SHERBURNE DAM MILK RIVER PROJECT, MONTANA
Arms_class: PRJ-13.00
Cutter_no: L192 Acc_no: 15666
Keyword: MILK RIVER PROJECT

Title: MODIFICATION OF LAKE SHERBURNE DAM, MILK RIVER PROJECT, MONTANA
Arms_class: PRJ-13.00
Cutter_no: L192 Acc_no: 6333
Keyword: MILK RIVER PROJECT

Title: PARADISE DIVERSION DAM - SPEC DC-6399
Arms_class: ACM-3.00
Cutter_no: P221 Acc_no: 1674
Keyword: MILK RIVER PROJECT

Title: PARADISE DIVERSION DAM, DESIGN DATA FOR SPECIFICATIONS
Arms_class: PRJ-8.00
Cutter_no: P221 Acc_no: 15651
Keyword: MILK RIVER PROJECT

Title: PARAPET WALL, CURB AND ROADWAY FOR FRESNO DAM, SPEC R6-GF-15
Arms_class: ACM-3.00
Cutter_no: F886 Acc_no: 4339

Keyword: MILK RIVER PROJECT

Title: PARAPET WALL, CURB AND ROADWAY FOR FRESNO DAM, SPEC R6-GF-16 — Arms_class: ACM-3.00
Cutter_no: F886 Acc_no: 4340
Keyword: MILK RIVER PROJECT

Title: PARAPET WALL, CURB AND ROADWAY FOR FRESNO DAM, SPEC R6-GF-6 — Arms_class: ACM-3.00
Cutter_no: F886 Acc_no: 4319
Keyword: MILK RIVER PROJECT

Title: PLAN OF STUDY FOR MILK RIVER WATER SUPPLY STUDY, MONTANA - REGIONAL DIRECTOR'S PLANNING REPORT/ENVIRONMENTAL STATEMENT — Arms_class: RES-3.10
Cutter_no: M644 Acc_no: 12568
Keyword: MILK RIVER WATER SUPPLY STUDY

Title: PRELIMINARY STATEMENT CONCERNING EFFECTS OF THE ESTABLISHED MILK RIVER PROJECT, MONTANA, ON FISH AND WILDLIFE RESOURCES — Arms_class: ENV-4.00
Cutter_no: M644 Acc_no: 6338
Keyword: MILK RIVER PROJECT

Title: PROGRAM OF ACTIVITIES FISCAL YEARS 1946 AND 1947 GLASGOW BENCH UNIT — Arms_class: PRJ-8.00
Cutter_no: G548 Acc_no: 8260
Keyword: MILK DIVISION

Title: PROGRESS REPORT ON NORTH HILLSIDE SLIDE — Arms_class: PRJ-10.00
Cutter_no: L192 Acc_no: 15661
Keyword: MILK RIVER PROJECT

Title: PROGRESS REPORT ON NORTH HILLSIDE SLIDE INVESTIGATIONS, SHERBURNE LAKESDAM — Arms_class: PRJ-10.00
Cutter_no: L192 Acc_no: 15660
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1902-1911, VOL. II — Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9347
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1902/1911, VOL. I — Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9322
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1909, VOL. 1 OF 2 — Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9348
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1913, VOL. III — Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9374

Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1913, VOL. IV
Arms_class: ADM-12.0
Cutter_no: M644 Acc_no: 9376
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1914, VOL. V
Arms_class: ADM-12.0
Cutter_no: M644 Acc_no: 9378
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1915, VOL. VI
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9383
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1915, VOL. VII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9384
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1915, VOL. VIII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9404
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1916, VOL. IX
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9412
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1916, VOL. X
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9413
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1917, VOL. XI
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9416
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1917, VOL. XII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9417
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1918, VOL. XIII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9419
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1918, VOL. XIV
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9420
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1919, VOL. XVI
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9422

Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1919, VOL. XVII
Arms_class: ADM-12.0(
Cutter_no: M644 Acc_no: 9423
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1920, VOL. XIX
Arms_class: ADM-12.0(
Cutter_no: M644 Acc_no: 9425
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1920, VOL. XVIII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9424
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1921, VOL. XX
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9439
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1921, VOL. XXI
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9440
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1922, VOL. XXII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9441
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1922, VOL. XXIII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9442
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1923, VOL. XXIV
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9443
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1923, VOL. XXV
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9444
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1924, VOL. XXVI
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9446
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1925, VOL. XXVII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9447
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1926, VOL. XXVIII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9448

Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1927, VOL. XXIX
Arms_class: ADM-12.0
Cutter_no: M644 Acc_no: 9449
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1928, VOL. XXX
Arms_class: ADM-12.0
Cutter_no: M644 Acc_no: 9451
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1929, VOL. XXXI
Arms_class: ADM-12.0(
Cutter_no: M644 Acc_no: 9452
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1930, VOL. XXXII
Arms_class: ADM-12.0(
Cutter_no: M644 Acc_no: 9453
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1931, VOL. XXXIII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9454
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1932, VOL. XXXIV
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9455
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1934, VOL. XXXVI
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9456
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1935, VOL. XXXVII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9457
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1936, VOL. XXXVIII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9459
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1937, VOL. XXXIX
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9458
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1938, VOL. XXXX
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9461
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1939, VOL. XXXXI
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9462

Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1945, VOL. XXXXVII
Arms_class: ADM-12.0
Cutter_no: M644 Acc_no: 9463
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1946, VOL. XXXXVIII
Arms_class: ADM-12.0
Cutter_no: M644 Acc_no: 9464
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1947, VOL. XXXXIX
Arms_class: ADM-12.0(
Cutter_no: M644 Acc_no: 9465
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - MILK RIVER PROJECT, 1948
Arms_class: ADM-12.0(
Cutter_no: M644 Acc_no: 9466
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - ST. MARY'S STORAGE UNIT, MILK RIVER PROJECT, 1916, VOL. XVII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9406
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY - ST. MARY'S STORAGE UNIT, MILK RIVER PROJECT, 1917, VOL. XIX
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9418
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY, MILK RIVER PROJECT, 1933, VOLUME 35
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9764
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY, MILK RIVER PROJECT, MONTANA, CALENDAR YEAR 1981, VOLUME LXXXIV (NOT FOR PUBLICATION)
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 12686
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY, MILK RIVER PROJECT, MONTANA, CALENDAR YEAR 1982, VOLUME LXXXV, (NOT FOR PUBLICATION)
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 12687
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY, MILK RIVER PROJECT, SHERBURNE LAKES RESERVOIR DAM, 1917, VOLUME 18
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9759
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY, MILK RIVER PROJECT, ST. MARY STORAGE UNIT, MONTANA 1918, VOLUME 21
Arms_class: ADM-12.00

Cutter_no: M644 Acc_no: 9761
Keyword: MILK RIVER PROJECT

Title: PROJECT HISTORY, MILK RIVER PROJECT, ST. MARY STORAGE UNIT, SHERBURNE LAKES RESERVOIR DAM, 1914, VOLUME 10 Arms_class: ADM-12.0(
Cutter_no: M644 Acc_no: 9757
Keyword: MILK RIVER PROJECT

Title: PUMPING UNIT FOR DODSON PUMPING PLANT, MILK RIVER PROJECT, SPECIFICATIONS NO. 1807-D Arms_class: ACM-3.00
Cutter_no: M644 Acc_no: 1535
Keyword: MILK RIVER PROJECT

Title: REHABILITATION OF SHERBURNE LAKE DAM - OUTLET WORKS, SPEC DC-5191 Arms_class: ACM-3.00
Cutter_no: S551 Acc_no: 1646
Keyword: MILK RIVER PROJECT

Title: REHABILITATION SURVEY, CHINOOK DIVISION, MILK RIVER PROJECT, MONTANA Arms_class: PRJ-8.00
Cutter_no: M644 Acc_no: 6332
Keyword: MILK RIVER PROJECT

Title: REPORT ON 1952 SPRING MILK RIVER FLOOD, MILK RIVER DIVISION, MONTANA Arms_class: PRJ-13.00
Cutter_no: M644 Acc_no: 15026
Keyword: MILK DIVISION

Title: REPORT ON 1952 SPRING MILK RIVER FLOOD, MILK RIVER DIVISION, MONTANA Arms_class: PRJ-13.00
Cutter_no: M644 Acc_no: 15026
Keyword: MILK RIVER FLOOD

Title: REPORT ON 1952 SPRING MILK RIVER FLOOD, MILK RIVER DIVISION, MONTANA Arms_class: PRJ-23.00
Cutter_no: M644 Acc_no: 5966
Keyword: MILK RIVER

Title: REPORT ON 1952 SPRING MILK RIVER FLOOD, MILK RIVER DIVISION, MONTANA Arms_class: PRJ-23.00
Cutter_no: M644 Acc_no: 5966
Keyword: MILK RIVER DIVISION

Title: REPORT ON FURTHER STORAGE AND IRRIGATION WORKS REQUIRED TO UTILIZE FULLY CANADA'S SHARE OF INTERNATIONAL STREAMS IN SOUTHERN ALBERTA Arms_class: WTR-4.00
Cutter_no: S146 Acc_no: 6134
Keyword: MILK RIVER

Title: REPORT ON INVESTIGATION OF EASTERN TRIBUTARIES OF MILK RIVER, MONTANA Arms_class: PRJ-23.00
Cutter_no: M644 Acc_no: 6135
Keyword: MILK RIVER

Title: REPORT ON INVESTIGATIONS OF ROCK CREEK PROJECT, MONTANA
Arms_class: PRJ-3.00
Cutter_no: R682 Acc_no: 6140
Keyword: MILK RIVER PROJECT

Title: REPORT ON INVESTIGATIONS OF ROCK CREEK PROJECT, MONTANA, MILK RIVER PROJECT
Arms_class: PRJ-3.00
Cutter_no: R682 Acc_no: 10278
Keyword: MILK RIVER PROJECT

Title: REPORT ON LANDSLIDES AT SHERBURNE DAM
Arms_class: PRJ-10.0(
Cutter_no: S551 Acc_no: 15649
Keyword: MILK RIVER PROJECT

Title: REPORT ON MARIAS-MILK UNIT, MILK DIVISION, MONTANA, MISSOURI RIVER BASIN PROJECT, APPENDIX B, LAND RESOURCES
Arms_class: PRJ-8.00
Cutter_no: M644 Acc_no: 5964
Keyword: MILK DIVISION

Title: REPORT ON MILK RIVER PROJECT, MONTANA, 1945
Arms_class: PRJ-16.00
Cutter_no: M644 Acc_no: 7693
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE CANAL SYSTEMS OF MILK RIVER VALLEY, MONTANA
Arms_class: PRJ-15.00
Cutter_no: M644 Acc_no: 8308
Keyword: MILK RIVER

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA VOLUME I
Arms_class: WTR-4.10
Cutter_no: M644 Acc_no: 6111
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA VOLUME IA - MAPS AND PHOTOGRAPHS
Arms_class: WTR-4.10
Cutter_no: M644 Acc_no: 6112
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA VOLUME IB, MAPS AND PHOTOGRAPHS
Arms_class: WTR-4.10
Cutter_no: M644 Acc_no: 6113
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA VOLUME II
Arms_class: WTR-4.10
Cutter_no: M644 Acc_no: 6114
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT,
Arms_class: WTR-4.10

MONTANA VOLUME IIA, MAPS AND PHOTOGRAPHS
Cutter_no: M644 Acc_no: 6115
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA, VOLUME IIB, MAPS AND PHOTOGRAPHS Arms_class: WTR-4.10
Cutter_no: M644 Acc_no: 6116
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA, VOLUME IIC, MAPS AND PHOTOGRAPHS Arms_class: WTR-4.10
Cutter_no: M644 Acc_no: 6117
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA, VOLUME III Arms_class: WTR-4.10
Cutter_no: M644 Acc_no: 6118
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA, VOLUME IIIA, MAPS AND PHOTOGRAPHS Arms_class: WTR-4.10
Cutter_no: M644 Acc_no: 6119
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA, VOLUME IV Arms_class: WTR-4.10
Cutter_no: M644 Acc_no: 6120
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA, VOLUME IVA, MAPS AND PHOTOGRAPHS Arms_class: WTR-4.10
Cutter_no: M644 Acc_no: 6129
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA, VOLUME IVB, MAPS AND PHOTOGRAPHS Arms_class: WTR-4.10
Cutter_no: M644 Acc_no: 6130
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA, VOLUME V Arms_class: WTR-4.10
Cutter_no: M644 Acc_no: 6131
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA, VOLUME VA, MAPS AND PHOTOGRAPHS Arms_class: WTR-4.10

Cutter_no: M644 Acc_no: 6132
Keyword: MILK RIVER PROJECT

Title: REPORT ON PRIVATE WATER APPROPRIATIONS, MILK RIVER PROJECT, MONTANA, VOLUME VB, MAPS AND PHOTOGRAPHS Arms_class: WTR-4.10
Cutter_no: M644 Acc_no: 6133
Keyword: MILK RIVER PROJECT

Title: REPORT ON PROPOSED REHABILITATION AND BETTERMENT PROGRAM, GLASGOW DIVISION, MILK RIVER PROJECT Arms_class: PRJ-8.00
Cutter_no: R345 Acc_no: 15476
Keyword: MILK RIVER PROJECT

Title: REPORT ON PROPOSED REHABILITATION AND BETTERMENT PROGRAM, MALTA DIVISION, MILK RIVER PROJECT Arms_class: PRJ-8.00
Cutter_no: M261 Acc_no: 7159
Keyword: MILK RIVER PROJECT

Title: REPORT ON SNAKE BUTTE QUARRY Arms_class: PRJ-10.00
Cutter_no: S669 Acc_no: 15659
Keyword: MILK RIVER PROJECT

Title: REPORT ON THE PROPOSED SACO DIVIDE UNIT OF THE MILK RIVER PROJECT, MONTANA Arms_class: PRJ-3.00
Cutter_no: S122 Acc_no: 10170
Keyword: MILK RIVER PROJECT

Title: REPORT TO THE INTERNATINAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF ST. MARY AND MILK RIVERS - 1978 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8942
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND MADE OF THE WATERS OF ST. MARY AND MILK RIVERS Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8846
Keyword: MILK RIVERS

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST, MARY AND MILK RIVERS - 1938 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8867
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8852

Keyword: MILK RIVERS

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8854
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1931
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8859
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1925
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8849
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1926
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8850
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1932
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8860
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1932
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8860
Keyword: MILK RIVERS

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1933
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8861
Keyword: MILK RIVERS

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1935
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8863
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1936
Arms_class: WTR-4.10

Cutter_no: S146 Acc_no: 8865
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1939 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8869
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1940 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8870
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1941 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8871
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1942 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8855
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1944 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8875
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1946 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8876
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1947 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8877
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1948 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8878
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1949
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8879
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1950
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8880
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1951
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8881
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1952
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8882
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1953
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8883
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1954
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8884
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1955
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8885
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1956
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8886
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE
Arms_class: WTR-4.10

MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1958
Cutter_no: S146 Acc_no: 8888
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1959 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8889
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1960 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8890
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1961 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8892
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1962 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8924
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1962 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8924
Keyword: MILK RIVER\

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1963 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8925
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1964 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8926
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1965 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8927
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1966
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8928
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1967
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8929
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1968
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8930
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1969
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8931
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OS ST. MARY AND MILK RIVERS - 1942
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8872
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS ST. MARY AND MILK RIVERS
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8841
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS ST. MARY AND MILK RIVERS
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8848
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1943
Arms_class: WTR-4.10
Cutter_no: S196 Acc_no: 8874
Keyword: MILK RIVERS

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK RIVERS
Arms_class: PRJ-23.00
Cutter_no: S146 Acc_no: 6328

Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK RIVERS
Arms_class: PRJ-5.00
Cutter_no: S146 Acc_no: 14493
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF ST. MARY AND MILK RIVERS - 1970
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8932
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF ST. MARY AND MILK RIVERS - 1972
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8935
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF ST. MARY AND MILK RIVERS - 1973
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8936
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF ST. MARY AND MILK RIVERS - 1974
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8937
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF ST. MARY AND MILK RIVERS - 1976
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8939
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF ST. MARY AND MILK RIVERS - 1979
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8943
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK RIVER - 1983
Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8946
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK
Arms_class: WTR-4.10

RIVERS - 1984
Cutter_no: S146 Acc_no: 8948
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK RIVERS - 1982 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8944
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK RIVERS - 1985 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8950
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK RIVERS - 1986 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8952
Keyword: MILK RIVERS

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OF THE ST. MARY AND MILK RIVERS - 1987 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8954
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION OF THE WATERS OS ST. MARY AND MILK RIVER - 1977 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8941
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION ON THE DIVISION OF THE WATERS OF ST. MARY AND MILK RIVERS - 1971 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8934
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE THE DIVISION OF THE WATERS OF ST. MARY AND MILK RIVERS - 1975 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8938
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION ON THE WATERS ON ST. MARY AND MILK RIVERS - 1934 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8862
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION THE DIVISION AND USE Arms_class: WTR-4.10

MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1919
Cutter_no: S146 Acc_no: 8840
Keyword: MILK RIVER

Title: REPORT TO THE INTERNATIONAL JOINT COMMISSION THE DIVISION AND USE MADE OF THE WATERS ST. MARY AND MILK RIVERS - 1927 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8851
Keyword: MILK RIVER

Title: REVIEW OF MAINTENANCE REPORT, CONDITION OF WATER SYSTEM STRUCTURES AND FACILITIES, UPPER MISSOURI REGION PROJECTS AND P-SMBP UNITS Arms_class: WTR-1.00
Cutter_no: M678 Acc_no: 14827
Keyword: MILK RIVER PROJECT

Title: REVIEW OF OPERATION AND MAINTENANCE PROGRAM, 1990 EXAMINATION REPORT, FRESNO DAM, MILK RIVER PROJECT, MONTANA Arms_class: PRJ-12.00
Cutter_no: F886 Acc_no: 15315
Keyword: MILK RIVER PROJECT

Title: SECOND PUMPING UNIT FOR DODSON PUMPING PLANT, SPECIFICATION #1126 Arms_class: ACM-3.00
Cutter_no: D647 Acc_no: 650
Keyword: MILK RIVER

Title: SHERBURNE DAM PROPOSED DRILLING 1982 NORTH SLOPE SLIDE AND SOUTH SLOPE SLIDE Arms_class: PRJ-10.00
Cutter_no: S551 Acc_no: 15650
Keyword: MILK RIVER PROJECT

Title: SIPHONS, CHECK AND WASTEWAYS - STATIONS 865+50, 1147+27, 1195+43 AND 1493+72 - VANDALIA SOUTH CANAL, SPEC 604C-28 Arms_class: ACM-3.00
Cutter_no: V224 Acc_no: 4431
Keyword: MILK RIVER PROJECT

Title: SOIL SURVEY OF MILK RIVER SHEET Arms_class: RES-3.40
Cutter_no: M644 Acc_no: 12971
Keyword: MILK RIVER SHEET

Title: SOIL SURVEY OF THE MILK RIVER AREA OF MONTANA Arms_class: RES-3.40
Cutter_no: M644 Acc_no: 12914
Keyword: MILK RIVER AREA

Title: SPECIAL REPORT SUMMARIZING THE MILK RIVER WATER SUPPLY STUDY Arms_class: RES-3.20
Cutter_no: M644 Acc_no: 15374
Keyword: MILK RIVER PROJECT

Title: SPECIAL REPORT SUMMARIZING THE MILK RIVER WATER SUPPLY STUDY
Arms_class: RES-3.20
Cutter_no: M644 Acc_no: 15374
Keyword: MILK RIVER WATER SUPPLY STUDY

Title: SPILLWAY REPAIR, FRESNO DAM, MILK RIVER PROJECT, SPEC. #DC-4019
Arms_class: ACM-3.00
Cutter_no: F886 Acc_no: 1612
Keyword: MILK RIVER PROJECT

Title: ST. MARY'S STORAGE FEATURE OF MILK RIVER PROJECT - DRAWINGS ACCOMPANYING FEATURE HISTORY, 1913, VOL. VI
Arms_class: ADM-12.0(
Cutter_no: M644 Acc_no: 9379
Keyword: MILK RIVER PROJECT

Title: ST. MARY'S STORAGE FEATURE OF MILK RIVER PROJECT - DRAWINGS AND PHOTOGRAPHS ACCOMPANYING PROJECT HISTORY, 1912, VOL. II
Arms_class: ADM-12.0(
Cutter_no: M644 Acc_no: 9350
Keyword: MILK RIVER PROJECT

Title: ST. MARY'S STORAGE FEATURE OF MILK RIVER PROJECT - FEATURE HISTORY, 1912, VOL. I
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9349
Keyword: MILK RIVER PROJECT

Title: ST. MARY'S STORAGE FEATURE OF MILK RIVER PROJECT - FEATURE HISTORY, 1912, VOL. III
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9373
Keyword: MILK RIVER PROJECT

Title: ST. MARY'S STORAGE FEATURE OF MILK RIVER PROJECT - FEATURE HISTORY, 1913, VOL. V
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9377
Keyword: MILK RIVER PROJECT

Title: ST. MARY'S STORAGE FEATURE OF MILK RIVER PROJECT, 1912, VOL. IV
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9375
Keyword: MILK RIVER PROJECT

Title: ST. MARY'S STORAGE UNIT OF MILK RIVER PROJECT - FEATURE HISTORY, 1914, VOL. IX
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9382
Keyword: MILK RIVER PROJECT

Title: ST. MARY'S STORAGE UNIT OF MILK RIVER PROJECT - FEATURE HISTORY, 1914, VOL. VII
Arms_class: ADM-12.00
Cutter_no: M644 Acc_no: 9380
Keyword: MILK RIVER PROJECT

Title: ST. MARY'S STORAGE UNIT OF MILK RIVER PROJECT - FEATURE HISTORY, 1914, VOL. VIII
Arms_class: ADM-12.00

Cutter_no: M644 Acc_no: 9381
Keyword: MILK RIVER PROJECT

Title: STAGE TWO MODIFICATIONS - LAKE SHERBURNE DAM, SPEC 60-C0074 Arms_class: ACM-3.00
Cutter_no: L192 Acc_no: 2761
Keyword: MILK RIVER PROJECT

Title: SUMMARIZED REPORT - MILK RIVER PROJECT, DODSON UNIT Arms_class: PRJ-2.00
Cutter_no: M644 Acc_no: 12705
Keyword: MILK RIVER PROJECT

Title: SUMMARIZED REPORT, GLASGOW BENCH UNIT, MONTANA, MILK DIVISION Arms_class: PRJ-8.00
Cutter_no: G548 Acc_no: 5748
Keyword: MILK DIVISION

Title: SUMMARIZED REPORT, GLASGOW BENCH UNIT, MONTANA, MILK DIVISION, MISSOURI RIVER BASIN PROJECT Arms_class: PRJ-8.00
Cutter_no: G548 Acc_no: 5970
Keyword: MILK DIVISION

Title: SUMMARY REPORT ON MARIAS-MILK UNIT, MILK DIVISION, MONTANA Arms_class: PRJ-8.00
Cutter_no: M333 Acc_no: 5702
Keyword: MILK DIVISION

Title: SUPPLEMENTAL REPORT ON WATER SUPPLY, MILK RIVER PROJECT, MONTANA Arms_class: RES-3.10
Cutter_no: M644 Acc_no: 6330
Keyword: MILK RIVER

Title: SUPPLEMENTAL REPORT ON WATER SUPPLY, MILK RIVER PROJECT, MONTANA Arms_class: RES-3.10
Cutter_no: M644 Acc_no: 6330
Keyword: MILK RIVER PROJECT

Title: SUPPLEMENTAL WATER FOR THE MILK RIVER Arms_class: RES-3.10
Cutter_no: M644 Acc_no: 6095
Keyword: MILK RIVER

Title: SUPPLEMENTAL WATER FOR THE MILK RIVER Arms_class: RES-3.10
Cutter_no: M644 Acc_no: 6335
Keyword: MILK RIVER

Title: SUPPLEMENTAL WATER FOR THE MILK RIVER Arms_class: RES-3.10
Cutter_no: M644 Acc_no: 6335
Keyword: MILK RIVER PROJECT

Title: TAILWATER STUDY, PARADISE DIVERSION DAMSITE, MILK RIVER PROJECT, MONTANA, CHINOOK DIVISION Arms_class: PRJ-13.00
Cutter_no: P222 Acc_no: 14559
Keyword: MILK RIVER PROJECT

Title: TECHNICAL REPORT OF CONSTRUCTION, Arms_class: PRJ-13.00

LAKE SHERBURNE DAM MODIFICATION
Cutter_no: L192 Acc_no: 15663
Keyword: MILK RIVER PROJECT

Title: THE HISTORIC CULTURAL RESOURCES OF THE MILK RIVER PROJECT, VOLUME 1, HISTORY AND RESOURCE OVERVIEW Arms_class: ENV-3.00
Cutter_no: M644 Acc_no: 16123
Keyword: MILK RIVER PROJECT

Title: THE HISTORIC CULTURAL RESOURCES OF THE MILK RIVER PROJECT, VOLUME 2, FEATURE RESEARCH RECORDS Arms_class: ENV-3.00
Cutter_no: M644 Acc_no: 16124
Keyword: MILK RIVER PROJECT

Title: THE HISTORIC CULTURAL RESOURCES OF THE MILK RIVER PROJECT, VOLUME 2, FEATURE RESEARCH RECORDS, PART 2 Arms_class: ENV-3.00
Cutter_no: M644 Acc_no: 16125
Keyword: MILK RIVER PROJECT

Title: THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1937 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8866
Keyword: MILK RIVER

Title: THE INTERNATIONAL JOINT COMMISSION ON THE DIVISION AND USE MADE OF THE WATERS OF ST. MARY AND MILK RIVERS - 1957 Arms_class: WTR-4.10
Cutter_no: S146 Acc_no: 8887
Keyword: MILK RIVERS

Title: UPPER MARIAS UNIT SUPPORTING DATA Arms_class: PRJ-2.00
Cutter_no: M333 Acc_no: 15024
Keyword: MILK DIVISION

Title: UPPER MISSOURI DISTRICT MISSOURI RIVER BASIN MILK RIVER DIVISION - MONTANA - REPT ON 1952 SPRING MILK RIVER FLOOD Arms_class: PRJ-13.00
Cutter_no: M644 Acc_no: 8259
Keyword: MILK RIVER

Title: VANDALIA AREA SUPPORTING DATA, CANALS AND LATERALS, MARIAS-MILK UNIT Arms_class: PRJ-15.00
Cutter_no: V224 Acc_no: 15022
Keyword: MILK DIVISION

Title: WATER QUALITY INVENTORY AND MANAGEMENT PLAN - MILK RIVER BASIN Arms_class: RES-3.10
Cutter_no: W324 Acc_no: 597
Keyword: MILK RIVER

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Arms_class: RES-3.10
Cutter_no: W324 Acc_no: 597
Keyword: MILK RIVER BASIN

Title: WATER QUALITY INVENTORY AND MANAGEMENT PLAN - MILK RIVER BASIN - MONTANA
Arms_class: RES-3.20
Cutter_no: M644 Acc_no: 13677
Keyword: MILK RIVER BASIN