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NORTH DAKOTA STATE AGENCY

# STATE OF

STATE  
WATER  
COMMISSION

# NORTH DAKOTA

FOR THE PERIOD

July 1, 1981 to June 30, 1983



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**STATE OF**

**STATE  
WATER  
COMMISSION**

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**NORTH DAKOTA**

**FOR THE PERIOD**

**July 1, 1981 to June 30, 1983**





# North Dakota State Water Commission

GOVERNOR ALLEN I. OLSON  
CHAIRMAN

VERNON FAHY  
SECRETARY & STATE ENGINEER

November 16, 1983

Honorable Allen I. Olson  
Governor of North Dakota  
State Capitol  
Bismarck, North Dakota 58505

RE: 1981 - 1983 Biennial Report

Dear Governor Olson:

In compliance with North Dakota laws, we transmit for your information and consideration the Biennial Report of the State Engineer and State Water Commission for the period July 1, 1981, to June 30, 1983.

Respectively submitted,

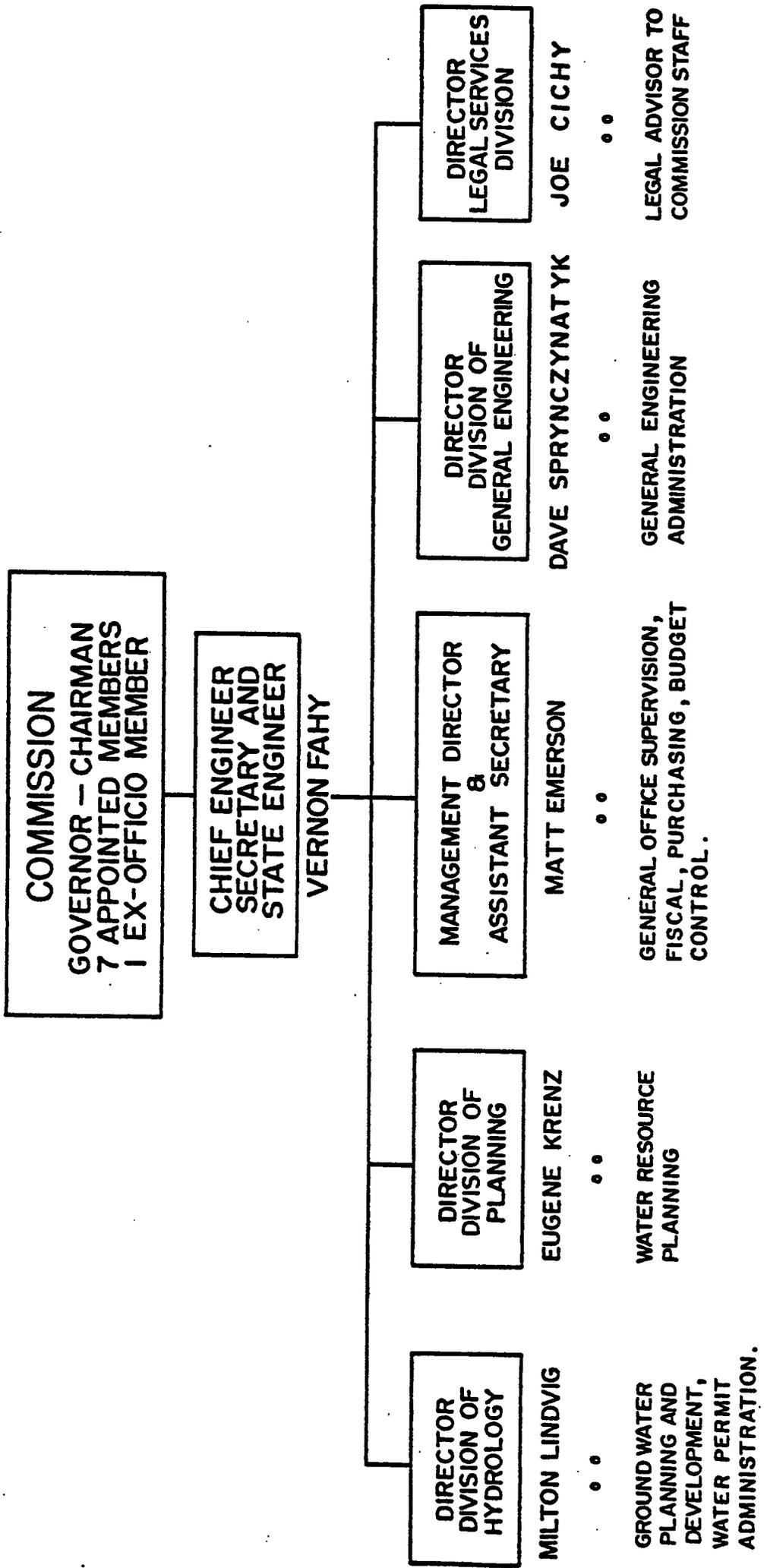
A handwritten signature in cursive script, appearing to read 'Vernon Fahy'.

Vernon Fahy  
Secretary & State Engineer

VF:dh

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## COMMISSION MEMBERS AS OF JUNE 30, 1983

Commission Members:

| <u>Name</u>             | <u>Position</u>   | <u>Term Ends</u> |
|-------------------------|-------------------|------------------|
| Governor Allen I. Olson | Chairman          |                  |
| Kent Jones              | Ex-Officio Member |                  |
| Ray Hutton              | Member            | July, 1987       |
| J. Garvin Jacobson      | Member            | July, 1987       |
| Bernard Vculek          | Member            | July, 1987       |
| Alvin Kramer            | Member            | July, 1985       |
| Henry Schank            | Member            | July, 1985       |
| Florenz Bjornson        | Member            | July, 1988       |
| Guy Larson              | Member            | July, 1988       |

## COMMISSION MEETINGS

JULY 1, 1981 - JUNE 30, 1983

| <u>Date</u>         | <u>Location</u> |
|---------------------|-----------------|
| July 6, 1981        | Carrington      |
| July 24, 1981       | Minot           |
| August 12, 1981     | Walhalla        |
| October 1, 1981     | Dickinson       |
| October 13-14, 1981 | Bismarck        |
| November 30, 1981   | Minot           |
| January 29, 1982    | Fargo           |
| April 6-7, 1982     | Bismarck        |
| June 17-18, 1982    | Beulah          |
| August 24, 1982     | Oakes           |
| September 16, 1982  | Bismarck        |
| November 8, 1982    | Bismarck        |
| December 6, 1982    | Bismarck        |
| February 11, 1983   | Killdeer        |
| March 15, 1983      | Bismarck        |
| May 19, 1983        | Bismarck        |

NORTH DAKOTA STATE WATER COMMISSIONFUNCTION

The Commission was created in 1937 by the 25th Session of the Legislative Assembly. Originally the Commission body was the Governor and six appointed members. In 1939, the Legislature reduced the number of members to five including the Governor; in 1949, the Commission was increased in size to seven members, and in 1981, to nine members.

The Commission has the duty and authority to investigate, plan, regulate, undertake, construct, establish, maintain, control, operate and supervise all works, dams and projects to achieve any of the following objectives: provide water supplies for domestic, agricultural, municipal and industrial, irrigation, recreation and wildlife needs; control stream flow and channeling; provide for drainage of lands injured by excessive rainfall or water diversions; provide water for generation of electric power; develop and conserve waters within natural watersheds and provide for trans-basin diversion if deemed necessary; prepare and maintain a statewide master plan for future water resources development; and establish rules and regulations for the control of water supplies in the State.

The State Water Commission is located at the State Office Building near the State Capitol in Bismarck, North Dakota. The Commission is made up of the Governor as Chairman, the Commissioner of Agriculture as an ex-official member and seven appointed members who are appointed by the Chairman to serve terms of six years each. The terms of office for appointees are so arranged that two terms and not more than three terms shall expire on the first day of July of each odd numbered year. The Commission appoints a Secretary-State Engineer as their executive officer and he employs a staff as may be needed.

The State Engineer's role, during the 1981 Legislative Assembly, was separated from direct Water Commission authority although he remains as the Executive Officer for their activities. The State Engineer's duties are primarily in issuance of water permits and drainage permits, and to control any works used for storage, diversion or carriage of water.

In light of the responsibilities delegated by the State Legislature, the State Water Commission has promulgated a comprehensive state water resources program as follows:

1. Administration of the State's water laws and representation of the State's interest in water on federal and international levels;
2. Preparation and maintenance of a statewide master plan for future water resources development, including the collection of basic data;
3. Investigation and direction of planning of the development of water resources projects in accordance with the master plan;

4. Coordination of the program and projects of federal, state and local agencies in water resources planning and development and research; and cooperation with water management and other entities in planning and completing water resources development projects;

5. Organization of various types of legal entities through which water resources projects can be completed and operated;

6. Construction and repair of dams, drains and other water management facilities;

7. Appearances before federal agencies and congressional committees relative to appropriations and enactment of proposed legislation that may aid or oppose the state water resources development program;

8. Investigate or determine the ground-water availability in the state for municipal, agricultural and industrial uses.

## ADMINISTRATIVE DIVISION

The Administrative Division provides the overall direction of agency powers and duties as described in the State Water Laws. The activities include both the State Engineer's and the Water Commission's operations as well as accounting, records and support services for all agency programs.

Some of the more major activities handled by the Division include: a program budget request done every two years, following guidelines set forth by the Office of Management and Budget. This includes a detailed program budget process for each division with the Water Commission. Done on a semi-annual basis is fixed assets inventory control, which involves the proper marking, recording, and reporting of fixed assets and includes the related phases of internal control. The following three responsible duties are done on a monthly basis. First is the Cost Report, which involves recording expenditures by assigned cost centers for each division, as well as for special line items or special funds in the legislative budget; including program expenditures. Secondly, an Activities Report is to inform the Governor and Water Commission Members of the over-all activities of the Water Commission during a given month. This information includes: personnel changes, water permits filed, general construction, ground-water projects, survey report, general project reports, and meetings and public relations. The third is the Monthly Percentage Report, which interrelates the five separate divisions of the Water Commission, indicating both budget and expended amounts which include: salaries, fees, data processing, supplies, equipment, contracts, and special assessments.

In addition, other areas of concentration by this Division include: carrying out duties of the State Engineer, management of commission programs and activities, local, state, federal and international coordination, financial and work-project records, personnel functions, and secretarial duties including report preparation as well as staff support.

The major goals of the Administrative Division are the development and the management of the State's Water Resources to serve the needs of present and succeeding generations of North Dakota citizens.

PLANNING DIVISION1983 STATE WATER PLAN

During the Biennium, the 1983 State Water Plan was completed. The Plan attempts to accommodate significant changes which have occurred since North Dakota published its first comprehensive water-and-related land resources plan in 1968. Among other things, the Plan reassesses North Dakota's current and future water requirements in a context of rapidly changing times and values, and begins a decision-making process, defining alternative courses of action. Through recommended development and management of the State's water resources, the Plan strives to meet the need for a strong social, cultural and economic structure that provides for the well-being of the State's citizens at/or near the National level and protects the State's environment.

It is likely that many recommendations made in the 1983 State Water Plan can be addressed under the existing authority of various State and Federal agencies. However, as in the past, inadequate funding at all levels may prevent addressing needs in a timely fashion. Nonetheless, continued, careful planning is essential to assure the best value for the dollars spent.

Official adoption of the State Water Plan was accomplished by resolution at the December 6, 1982 State Water Commission meeting. The Final Draft of the Plan and an Executive Summary have been printed and are available for distribution.

MASTER PLANSWATER RESOURCE DISTRICT

Biennial activities of the Planning Division include the preparation of guidelines for use by the Water Resource Districts in developing District Master Plans in adherence with the statute set forth in North Dakota Century Code 61-16.1-13. The Master Plan requirement was enacted by the Legislature in 1981 to encourage Water Resource District Boards to more closely consider the broad implications of their water management decisions.

Each district shall prepare and adopt a master plan to include a statement of goals and objectives for each of the various water management activities in the district, such as flood control and recreation. Completion of the State Water Plan represents a significant step as it serves as a valuable reference in the development of the Master Plans. These Master Plans must be completed prior to July 1, 1985 to qualify for State cost-share dollars.

The State Engineer will provide guidelines to help districts develop their Master Plans.

RED RIVER WATER RESOURCES COUNCIL

Funds to continue the Red River Water Resources Council beyond July 1, 1983, were not included in the Executive Budget recommendations for either North Dakota or Minnesota. This lack of funds, coupled with the resignation of the Council Executive Director, led to a decision by the two States not to fill the vacant staff position or continue renting office space.

The Moorhead, Minnesota office has been closed, but the Council will continue to function as it has in the past as a vehicle for coordinating water and related land resources matters between North Dakota and Minnesota in the Red River Basin. The Council will function without staff with a rotating chairmanship between the two states.

#### MISSOURI BASIN STATES ASSOCIATION

The Missouri River Basin Commission (MRBC) was terminated by Executive Order of President Reagan on September 30, 1981.

The ten MRBC state governors formed the Missouri Basin States Association to continue some of the MRBC activities, especially in the areas of coordination and communication. All activities are at a much lower level, however, since the Association is supported entirely by the Missouri River basin states with no financial input from the Federal Government. Participating states include Colorado, Iowa, Kansas, Minnesota, Missouri, Montana, Nebraska, North Dakota, South Dakota and Wyoming.

#### Planning Seminar

Those individuals responsible for water resources planning in each of the ten Missouri River basin states were afforded an opportunity to come together for the first time at a planning seminar held January 20-21, 1983 in Denver, Colorado.

This seminar was very beneficial in allowing an exchange of information among states on water planning processes, statutes and activities. This exchange of information will be valuable from a technical planning standpoint and will aid in developing an understanding among states on matters pertaining to future water use and needs in the Missouri River Basin.

HYDROLOGY DIVISION

Goal

Development and management of the State's water resources to serve the needs of present and succeeding generations of North Dakota citizens.

Objectives

1. Identify the availability and quality of the State's ground-water resources on a county basis.
2. Conduct studies for municipalities and other public entities in an effort to seek a solution to a particular water supply problem.
3. Assess impacts on existing water supply development in an aquifer or watershed on water levels, streamflow and water quality for purposes of allocation and management.
4. Construction and operation of predictive models that simulate hydrologic conditions for the purpose of developing viable water management programs and assist in the equitable allocation of the resource in areas of development.
5. Collect, store and disseminate data on stream flow, ground-water levels, water quality and water use.
6. Provide orderly processing of water permit applications for the equitable allocation of the resource.
7. Provide recommendations on individual water permit applications to the State Engineer on the availability of water and impact on senior appropriations for the equitable allocation and management of the resource.
8. Provide for the orderly storage and retrieval of water permit records.
9. Maintain a record of the utilization of each conditional water permit and water right.

Project Activities - 1979-1981

1. County ground-water studies - completed studies in Bottineau, Rolette, Towner and McKenzie Counties. The county studies program is complete.

2. Aquifer Evaluation Investigations

- A. Oakes Aquifer - Dickey County
- B. Englevale Aquifer - Ransom County
- C. Page Aquifer - Cass and Steele Counties
- D. Spiritwood Aquifer - Barnes, Stutsman, LaMoure, Dickey and Sargent Counties
- E. Edgeley Aquifer - LaMoure County
- F. West Fargo - Cass County
- G. South Bismarck Water Table Study - Burleigh County
- H. Shell Valley Aquifer - Rolette County
- I. Kidder Aquifer System - Kidder County
- J. James River Hydrology Study - Stutsman, LaMoure and Oakes Counties

3. Stream Evaluation Investigations

- A. Sheyenne River
- B. Forest River
- C. Heart River

4. Basic Data Collection

- A. Streamflow
- B. Ground-water levels
- C. Water quality - chemical
- D. Water use

## WATER PERMITS SUMMARY

JULY 1, 1981 THROUGH JUNE 30, 1983

APPLICATIONS FILED ----- 169

## IRRIGATION --

|                          |          |                    |
|--------------------------|----------|--------------------|
| Applications Filed ----- | 76       |                    |
| Acre-Feet Granted -----  | 26,264.4 | (Includes Backlog) |
| Acres Requested -----    | 16,069.8 |                    |
| Acres Granted -----      | 19,232.0 | (Includes Backlog) |

## MUNICIPAL --

|                          |         |
|--------------------------|---------|
| Applications Filed ----- | 15      |
| Acre-Feet Granted -----  | 3,808.0 |

## RECREATION (FISH AND WILDLIFE) --

|                                    |         |
|------------------------------------|---------|
| Applications Filed -----           | 14      |
| Acre-Feet Storage Granted -----    | 2,805.6 |
| Acre-Feet Annual Use Granted ----- | 627.8   |

## STOCKWATER --

|                                    |   |
|------------------------------------|---|
| Applications Filed -----           | 2 |
| Acre-Feet Storage Granted -----    | 0 |
| Acre-Feet Annual Use Granted ----- | 0 |

## FLOOD CONTROL --

|                          |   |
|--------------------------|---|
| Applications Filed ----- | 0 |
| Acre-Feet Granted -----  | 0 |

## INDUSTRIAL --

|   |          |
|---|----------|
| Applications Filed -----                        | 53       |
| Acre-Feet Granted -----                         | 28,647.1 |
| (Includes 9000.0 acre-feet to Basin Electric)   |          |
| (Includes 16,800.0 acre-feet to The Nokota Co.) |          |

## MUNICIPAL (RURAL DOMESTIC) --

|                          |         |
|--------------------------|---------|
| Applications Filed ----- | 9       |
| Acre-Feet Granted -----  | 1,442.0 |

DIVISION OF ENGINEERING

The Division of Engineering provides for the issuance of permits for water resource project development, establishment of criteria and guidance for water management, assistance to communities on floodplain management, and hydrologic investigations for quantification of surface water resources. In addition, activities include the design, construction, maintenance and inspection of water resource projects in the State. The Division is also responsible for the distribution of maps, field notes, and government land office plats as directed by Section 61-03-11 of the North Dakota Century Code, and to ensure adequate map coverage is available by contracting with United States Geological Survey to map additional areas.

The major goals of the Division of Engineering are to provide data; to manage and ensure that the surface waters of the State are developed in an orderly and safe manner; to ensure that the waters in which the State has a direct interest are protected for future generations; to develop necessary water resource projects at the request of local entities in the State; to provide technical data to communities in floodplain; and to satisfy public demands for availability of maps, field notes, and government land office plats.

During the 1981-83 biennium, the Division of Engineering became involved in the administration of the North Dakota Floodplain Management Act. The Act established State policy as one "...to guide development of the floodplains of this state...to reduce flood damages through sound floodplain management stressing nonstructural measures...". To this purpose, efforts in the floodplain management have concentrated on three main areas: Coordination of the National Flood Insurance Program,

providing technical assistance to communities in their floodplain management efforts, and development of floodplain management studies.

Coordination of the NFIP: North Dakota currently has 222 flood-prone communities which are the cities, townships and counties participating in the NFIP. Staff coordinates this program and serves as a liaison between local governments and the Federal Emergency Management Agency which is responsible for the NFIP.

Technical Assistance: Technical assistance is provided to local governments primarily through meetings with local floodplain ordinance administrators. Staff has personally visited more than 100 communities, plus held four workshops this past biennium.

Floodplain Management Studies: To assist communities in delineating floodplain areas which provides the necessary data to regulate development in accordance with the NFIP. The floodplain management section has contracted with local water resource districts, communities, and federal agencies (ex: SCS, COE & USGS) to provide this background data. Assistance has been provided to eight communities.

In addition to these main areas of effort, the section has developed education/informational material for use by local governments; contracted with the U.S. Geological Survey for an inventory of the best available flood hazard data in about 95 communities; developed a flood hazard mitigation plan for Mott, North Dakota through contract with Roosevelt-Custer Regional Council; conducted a community inventory evaluating the floodplain management and flood mitigation capabilities in 39 communities; and developed a acquisition/relocation plan with the City of Grand Forks through a special grant for FEMA. A majority of North Dakota's floodplain management program is made possible through participation in FEMA's state assistance program.

During the 1981-83 biennium, the regulatory section processed 17 dike-dam permit applications and 159 applications to drain. Of the dike-dam permits, five were for new dam construction or repairs, two were for protection of city property, and the remainder were for agricultural purposes or farmstead protection. Of the drainage permits, ten were for large group or assessment drains, four were for city drains, and two were for lake controls and the remainder for private drainage. During the biennium, assistance was provided to the water resource districts throughout the State in water management at the local level.

Preliminary engineering and hydrologic investigation reports were prepared for the following projects during the biennium:

- Painted Woods Creek (McLean County - SWC #160)
- Grafton Flood Control (Walsh County - SWC #1767)
- Beaver Lake Outlet (Logan County - SWC #390)
- Walhalla Impoundment (Pembina County - SWC #1769)
- Raising Big Coulee Dam (Towner County - SWC #1418)
- Morrison Lake Outlet (Ramsey County - SWC #1746)
- Little Coulee (Benson County - SWC #1724)
- Raising Odland Dam (Golden Valley County - SWC #394)
- Beulah Flood Control Dam (Mercer County - SWC #1732)
- Twin Hill Township Flood Study (Towner County - SWC #1745)

Major construction projects undertaken during the biennium included:

- Beulah Flood Control Dam (Mercer County - SWC #1732)
- Apple Creek Flood Control (Burleigh County - SWC #1728)  
(Water Control Structure #1 - Neideffer Site)
- Spiritwood Lake (Stutsman County - SWC #461)
- Dead Colt Creek Dam (Ransom County - SWC #1671)
- English Coulee Diversion (Grand Forks County - SWC #1351)

Minor maintenance was performed at the following projects during the biennium:

- Fargo 12th Ave. North Dam (Cass County - SWC #591)
- Fargo 4th Street Dam (Cass County - SWC #583)
- Sarnia Dam (Nelson County - SWC #291)
- Mott Dam (Hettinger County - SWC #249)
- Erie Dam (Cass County - SWC #1471)
- McVile Dam (Nelson County - SWC #616)
- Schlenker Dam (McIntosh County - SWC #381)
- Grand Forks Riverside Park Dam (Grand Forks County - SWC #520)

Golden Lake (Steele County - SWC #475)  
Froelich Dam (Sioux County - SWC #627)  
Odland Dam (Golden Valley County - SWC #394)  
Queen City Dam (Stark County - SWC #1409)  
Tioga Drain (Williams County - SWC #1640)  
Blacktail Creek Dam (Williams County - SWC #560)  
Kota Ray Dam (Williams County - SWC #489)  
McGregor Dam (Williams County - SWC #528)  
Short Creek Dam (Burke County - SWC #586)  
White Earth Dam (Mountrail County - SWC #327)

Under the State's Dam Safety Inspection Program, a total of 42 dams were inspected and reported on. Twenty-three of these dams were inspected and reported on for the U.S. Fish & Wildlife Service. Six of the dams inspected were dams which the State Water Commission had helped build. The remaining thirteen dams were reinspections and addendums to original reports, completed during the National Dam Safety Program. The twenty-three Fish and Wildlife Service dams were considered to be low hazard category dams. Of the remaining nineteen dams, six were considered to be high hazard, six were significant hazard, and the remaining dams were considered to be low hazard dams. None of these inspections revealed unsafe structures.

During the biennium, approximately 28,000 maps, field notes, and government land office plats were distributed to the public.

NORTH DAKOTA  
STATE WATER COMMISSION  
FUNCTION SUMMARY FOR BIENNIAL  
PERIOD ENDING JUNE 30, 1983

| FUNCTION NUMBER & DESCRIPTION                           | COST TO DATE |
|---|--------------|
| 100 Administrative Division                             | \$ 1,179.94  |
| 110 Management, Including Commission Members            | 00           |
| 120 Fiscal Control and Records                          | 00           |
| 130 Coordination, Personnel and Staff Support           | 00           |
| 200 Planning Division                                   | 384.00       |
| 210 Upper Mississippi River Basin Commission            | 24,502.94    |
| 211 Upper Mississippi River Basin Commission Assessment | 00           |
| 220 Missouri River Basin Commission                     | 10,362.47    |
| 221 Missouri River Basin Commission Assessment          | 00           |
| 230 State Water Plan Process                            | 513,956.70   |
| 240 Special Studies                                     | 13,313.99    |
| 241 Payment to Contractors                              | 00           |
| 250 State Inter-Agency Coordination                     | 5,343.27     |
| 301 Administrative Functions                            | 217,788.96   |
| 302 Field Work Related to Water Permits                 | 33,302.51    |
| 303 Cancelling Water Permits                            | 17,005.16    |
| 304 Computer Storage and Management                     | 146,058.76   |
| 305 Hydrologic Studies                                  | 10,332.26    |
| 306 Design  | 00           |
| 307 Research  | 00           |
| 310 Report Publication                                  | 00           |
| 311 Preliminary Planning                                | 170,744.68   |
| 312 Water Records                                       | 136,037.57   |
| 313 Geological Studies                                  | 538.83       |
| 314 Subsurface Exploration                              | 552,084.15   |
| 315 Quality of Water Work                               | 123,673.70   |
| 316 Aquifer Testing and Special Investigations          | 90,908.62    |
| 317 Data Compilation and Analysis                       | 87,829.82    |
| 318 Report Preparation and Review                       | 60,614.58    |
| 319 Special Investigations                              | 39,732.12    |
| 320 Repay   | 434,295.23   |
| 321 Ground-Water - County Report                        | 00           |
| 330 Ground-Water - Shop Related Act.                    | 35,527.87    |
| 400 General Engineering                                 | 249,088.29   |
| 401 Administration, Microfilming, Filing, Ect.          | 73,007.82    |
| 402 Training  | 21,763.49    |
| 403 Equipment Maintenance                               | 60,551.44    |
| 404 Shop Maintenance                                    | 57,383.12    |
| 410 Definition and Protection of State Owned Lakes      | 00           |
| 411 Drainage Permits                                    | 30,394.73    |

Continued

|     |  |             |
|-----|--|-------------|
| 412 | Diking Permits                                   | \$ 5,530.47 |
| 413 | Floodplain Management                            | 251,642.54  |
| 414 | Surface Water Permit Hydrology                   | 8,109.00    |
| 415 | Strip Mine and Energy Plant Regulation           | 6,892.00    |
| 416 | Federal Permit Review                            | 1,057.14    |
| 417 | Inter-Agency Coordination                        | 64,148.52   |
| 418 | Emergency Disaster Assistance                    | 10,295.68   |
| 419 | Intra Agency Coordination                        | 39,230.29   |
| 420 | Flood Control Project Hydrology                  | 110,102.88  |
| 421 | Drainage Project Hydrology                       | 3,436.67    |
| 422 | Recreation Project Hydrology                     | 2,180.03    |
| 423 | Water Supply Project Hydrology                   | 1,445.00    |
| 424 | Irrigation Project Hydrology                     | 00          |
| 425 | Streambank Erosion & Maintenance Hydrology       | 2,529.00    |
| 426 | Snagging, Clearing & Channel Imp. Hydrology      | 00          |
| 430 | Flood Control Project Investigation              | 155,648.68  |
| 431 | Drainage Project Investigation                   | 48,607.76   |
| 432 | Recreation Project Investigation                 | 18,490.60   |
| 433 | Water Supply Project Investigation               | 985,735.71  |
| 434 | Irrigation Project Investigation                 | 1,774.78    |
| 435 | Streambank Erosion & Maintenance Investigation   | 17,405.35   |
| 436 | Snagging, Clearing & Channel Imp. Investigation  | 20,259.60   |
| 440 | Flood Control Project Design                     | 103,970.05  |
| 441 | Drainage Project Design                          | 5,586.50    |
| 442 | Recreation Project Design                        | 25,072.25   |
| 443 | Water Supply Project Design                      | 848.00      |
| 444 | Irrigation Project Design                        | 00          |
| 445 | Streambank Erosion & Maintenance Design          | 00          |
| 446 | Snagging, Clearing & Channel Imp. Design         | 00          |
| 450 | Flood Control Project Construction               | 265,299.02  |
| 451 | Drainage Project Construction                    | 00          |
| 452 | Recreation Project Construction                  | 2,839.60    |
| 453 | Water Supply Project Construction                | 00          |
| 454 | Irrigation Project Construction                  | 00          |
| 455 | Streambank Erosion & Maintenance Construction    | 2,443.58    |
| 456 | Snagging, Clearing & Channel Imp. Construction   | 00          |
| 460 | Flood Control Project Maintenance                | 101,712.57  |
| 461 | Drainage Project Maintenance                     | 8,329.62    |
| 462 | Recreation Project Maintenance                   | 66,158.38   |
| 463 | Water Supply Project Maintenance                 | 29,226.40   |
| 464 | Irrigation Project Maintenance                   | 00          |
| 465 | Streambank Erosion & Maintenance                 | 15,082.41   |
| 466 | Snagging, Clearing & Channel Imp. Mtce.          | 00          |
| 470 | Dam Safety Inspection                            | 108,522.40  |
| 480 | Topographic Map Sales                            | 58,617.12   |
| 481 | Field Note Sales & H & V Control                 | 14,985.61   |
| 490 | Contract Payments for Flood Control Projects     | 498,381.32  |
| 491 | Contract Payments for Drainage Projects          | 290,414.19  |
| 492 | Contract Payments for Recreation Projects        | 45,134.79   |
| 493 | Contract Payments for Water Supply Projects      | 2,125.00    |
| 494 | Contract Payments for Irrigation Projects        | 500.00      |
| 495 | Contract Payments for Streambank Erosion & Mtce. | 00          |
| 496 | Contract Payments for S. & C. & Ch. Imp.         | 00          |

Continued

|     |                                 |                  |
|-----|---------------------------------|------------------|
| 500 | Legal Division                  | 40,438.52        |
| 510 | Administrative Division Support | 6,347.81         |
| 520 | Planning Division Support       | 2,252.00         |
| 530 | Hydrologic Division Support     | 10,402.26        |
| 540 | Engineering Division Support    | 66,517.91        |
| 550 | Interagency Coordination        | <u>12,423.79</u> |

TOTAL \$6,755,870.82

NOTE: 100 Series numbers are used for Administration  
200 " " " " " Water Resources Planning  
300 " " " " " Ground Water Hydrology  
400 " " " " " Water Resources Engineering  
500 " " " " " Legal Services

NORTH DAKOTA  
STATE WATER COMMISSION  
OBJECT EXPENDITURES FOR  
BIENNIAL PERIOD ENDING JUNE 30, 1983

WATER COMMISSION OPERATIONS

| <u>OBJECT</u>                  | <u>EXPENDITURE</u> |
|--------------------------------|--------------------|
| Salaries and Wages             | \$ 2,999,727.61    |
| Temporary Salaries             | 35,059.56          |
| Overtime                       | 88,948.71          |
| Paid Annual Leave              | 2,606.52           |
| Oasis Assessment               | 405.70             |
| Social Security                | 202,070.94         |
| Hospital Insurance             | 129,340.18         |
| Workmens Comp. Premiums        | 12,864.46          |
| Unemployment Insurance         | 8,962.40           |
| State Retirement Contribution  | 134,579.96         |
| Data Proc No Spec. Appn        | 1,144.00           |
| Microfilm Service              | 2,145.90           |
| In State Meals                 | 77,155.00          |
| Out of State Meals             | 7,662.25           |
| In State Lodging               | 64,361.98          |
| Out of State Lodging           | 10,159.57          |
| In State Mileage               | 12,915.50          |
| Out of State Mileage           | 1,258.04           |
| Air Trans. In State            | 6,740.09           |
| Air Trans. Out of State        | 29,790.83          |
| Other Com. Trans. In State     | 32.20              |
| Other Com. Trans. Out of State | 3,180.51           |
| Miscellaneous Travel           | 4,249.48           |
| Conference Expenses            | 5,342.29           |
| Water-Garbage                  | 406.16             |
| Natural Gas                    | 2,181.47           |
| Electricity                    | 4,034.06           |
| Lease-Rentals                  | 5,484.49           |
| Rent of Equip-Inc. Films       | 3,194.80           |
| Booth Rental                   | 950.00             |
| Office Equipment Rental        | 5,464.55           |
| Rent Transport. Equip.         | 1,347.50           |
| Rent of Building Space         | 11,580.87          |
| Rents not Classified           | 15.00              |
| Mailing Services               | 851.17             |

Continued

|                              |              |
|------------------------------|--------------|
| Postage & PO Box Rental      | \$ 20,363.56 |
| Telephone-Telegraph          | 21,744.04    |
| Repair Equip-Office          | 50.00        |
| Repair Equip-Automobiles     | 10,895.43    |
| Repair Equip-Other           | 6,567.10     |
| Service Contr-Off Equip      | 8,906.16     |
| Service Contr-Other          | 2,169.60     |
| Legal                        | 6,884.38     |
| Audit                        | 809.00       |
| Engineers                    | 216.00       |
| Management & Cons. Serv.     | 966.25       |
| Photographer                 | 502.52       |
| Professionals Not Class      | 17,223.60    |
| Fidelity                     | 140.00       |
| Property                     | 1,653.85     |
| Liability                    | 3,365.26     |
| Film Processing              | 1,441.44     |
| Moving Expenses              | 994.00       |
| Radio-TV-Newspaper Serv.     | 9,983.02     |
| Licenses-Taxes               | 1,025.00     |
| Dues-Memberships             | 12,450.00    |
| Freight and Express          | 6,854.81     |
| Laundry & Dry Cleaning       | 62.05        |
| Professional Development     | 350.00       |
| Tuition Fees                 | 1,986.00     |
| Other Miscellaneous Fees     | 6,145.50     |
| Office Supplies              | 31,249.55    |
| Stock Cards DP               | 15.50        |
| Central Supply               | 329.61       |
| License and Tags             | 3.00         |
| Printing-From Central Repro. | 37,918.61    |
| Printing-Not Central Repro.  | 87,779.98    |
| Books                        | 9,258.39     |
| Maps and Plats               | 26,481.76    |
| Periodicals & Subscriptions  | 3,351.84     |
| Paper Products               | 39.15        |
| Photography Supplies         | 829.46       |
| Safety Clothing              | 451.90       |
| Lab Supplies                 | 4,091.88     |
| Seed Feed Forage Fert.       | 97.21        |
| Trees-Shrubs-Etc.            | 35.90        |
| Drilling Supplies            | 59,519.93    |
| Hardware & Bldg. Supplies    | 8,193.92     |
| Expendable Tools             | 1,685.20     |
| Paint                        | 243.01       |
| Other Bldg. & Equip Supplies | 62,086.66    |
| Plumbing                     | 341.24       |
| Electrical                   | 297.25       |
| Equip. Repair Parts          | 4,756.56     |
| Traffic Service Supplies     | 61.70        |
| Films                        | 243.64       |
| Video Cassettes              | 95.00        |

Continued

|                           |    |              |
|---------------------------|----|--------------|
| Adv. & Promotional Sup.   | \$ | 1,652.00     |
| Troph. Ribbons PM & AWDS  |    | 34.51        |
| Supplies Not Classified   |    | 922.35       |
| Audio Visuals             |    | 14.38        |
| Arts & Crafts Supplies    |    | 83.09        |
| Fuel & Oil-Vehicle        |    | 97,833.67    |
| Tires-Vehicle             |    | 132.90       |
| Repair Parts-Vehicle      |    | 49,262.00    |
| Data Processing Service   |    | 171,606.81   |
| Shop Equipment            |    | 2,193.12     |
| Photo Equipment           |    | 419.87       |
| Lab Equipment             |    | 150.00       |
| Engineering Equipment     |    | 6,452.21     |
| Equipment Under \$100     |    | 1,052.55     |
| Office Machines           |    | 15,275.33    |
| Furniture & Furnishings   |    | 9,063.37     |
| Motor Vehicles            |    | 127,036.16   |
| Machinery & Other Equip.  |    | 160,154.25   |
| Contract Carryover        |    | 365,830.89   |
| Contractor Payments-Hwys  |    | 3,224.95     |
| Contractor Payments-Other |    | 1,366,999.16 |

ACCOUNT TOTAL \$ 6,738,813.74

RED RIVER PROJECTS

|                   |    |            |
|-------------------|----|------------|
| Contract Payments | \$ | 162,450.94 |
|-------------------|----|------------|

ACCOUNT TOTAL \$ 162,450.94

FLOODPLAIN MANAGEMENT

|                               |    |           |
|-------------------------------|----|-----------|
| Salaries and Wages            | \$ | 47,220.00 |
| Social Security               |    | 3,168.60  |
| Hospital Insurance            |    | 2,610.02  |
| Unemployment Insurance        |    | 119.98    |
| State Retirement Contribution |    | 2,417.64  |
| Data Processing Service       |    | 2,791.78  |
| In State Meals                |    | 39.00     |
| In State Lodging              |    | 39.37     |
| Air Trans. Out of State       |    | 1,124.00  |
| Miscellaneous Travel          |    | .25       |
| Conference Expenses           |    | 45.00     |
| Engineers                     |    | 19,610.00 |
| Motor Vehicles                |    | 9,773.00  |

ACCOUNT TOTAL \$ 88,958.64

Continued

WEST RIVER WATER SUPPLY

|                               |    |            |
|-------------------------------|----|------------|
| Salaries and Wages            | \$ | 61,459.16  |
| Oasis Assessment              |    | 48.00      |
| Social Security               |    | 4,123.84   |
| Hospital Insurance            |    | 2,610.25   |
| Unemployment Insurance        |    | 120.00     |
| State Retirement Contribution |    | 3,146.71   |
| In State Meals                |    | 879.00     |
| Out of State Meals            |    | 74.50      |
| In State Lodging              |    | 440.73     |
| Out of State Lodging          |    | 70.72      |
| In State Mileage              |    | 68.00      |
| Air Trans. Out of State       |    | 721.00     |
| Miscellaneous Travel          |    | 235.04     |
| Legal                         |    | 27,500.00  |
| Engineers                     |    | 795,204.00 |
| Management & Cons. Serv.      |    | 65,000.00  |
| Radio-TV-Newspaper Serv.      |    | 47.00      |
| Licenses-Taxes                |    | 3.00       |
| Office Supplies               |    | 233.10     |
| Printing-From Cen. Repro.     |    | 285.90     |
| Books                         |    | 49.00      |
| Periodicals & Subscriptions   |    | 8.00       |
| Arts & Crafts Supplies        |    | 8.09       |
| Fuel & Oil-Vehicle            |    | 413.32     |
| Photo Equipment               |    | 435.00     |
| Office Machines               |    | 232.50     |
| Furniture & Furnishings       |    | 925.00     |
| Motor Vehicles                |    | 7,633.00   |

ACCOUNT TOTAL \$ 971,973.86

GRAND TOTAL \$ 7,962,197.18

NORTH DAKOTA STATE WATER COMMISSION

FUND SUMMARY FOR BIENNIAL  
PERIOD ENDING JUNE 30, 1983

| Account Description      | Original Appropriation | Adjusted Appropriation | Biennium to Date Revenues/Expenditures | Appropriation Balance |
|--------------------------|------------------------|------------------------|--|-----------------------|
| Revenues                 | \$ 1,858,867           | \$ 2,252,517           | \$ 908,556 CR                          | \$1,343,961           |
| Transfer from Gen. Fund  | 9,142,731              | 9,143,055              | 7,050,466 CR                           | 2,092,589             |
| Total                    | 11,001,598             | 11,395,572             | 7,959,022 CR                           | 3,436,550             |
| Salaries and Wages       | 4,134,782              | 3,972,916              | 3,614,377                              | 358,539 CR            |
| Operating Expenses       | 1,318,771              | 1,253,961              | 891,802                                | 362,159 CR            |
| Central Data Processing  | 177,030                | 199,030                | 171,607                                | 27,423 CR             |
| Equipment                | 371,015                | 371,015                | 321,797                                | 49,218 CR             |
| 79-81 Contract Carryover | -----                  | 638,650                | 365,831                                | 272,819 CR            |
| Contracts                | 3,280,000              | 3,240,000              | 1,370,224                              | 1,869,776 CR          |
| Grants                   | 120,000                | 120,000                | -----                                  | 120,000 CR            |
| Red River Projects       | 500,000                | 500,000                | 162,451                                | 337,549 CR            |
| Floodplain Management    | 117,000                | 117,000                | 88,959                                 | 28,041 CR             |
| Water Supply Facilities  | 983,000                | 983,000                | 971,974                                | 11,026 CR             |
| Total                    | \$11,001,598           | \$11,395,572           | \$7,959,022                            | \$3,436,550           |

NOTE: Approved Project Carryover - Contracts \$ 1,467,507  
 Red River 325,000  
 Floodplain Management 28,041

Total \$ 1,820,548

Resources Available From The Agency

1. Minutes of meetings held may be obtained by writing to:

State Water Commission  
State Office Building  
900 East Boulevard  
Bismarck, ND 58505

2. Data available for public use include:

- a. Government Land Office Plats
- b. Survey Horizontal and Vertical Control
- c. Various Topographic Maps
- d. Water Permit Data
- e. Drainage Permit Data
- f. Stream Flow Data