NORTH DAKOTA STATE AGENCY
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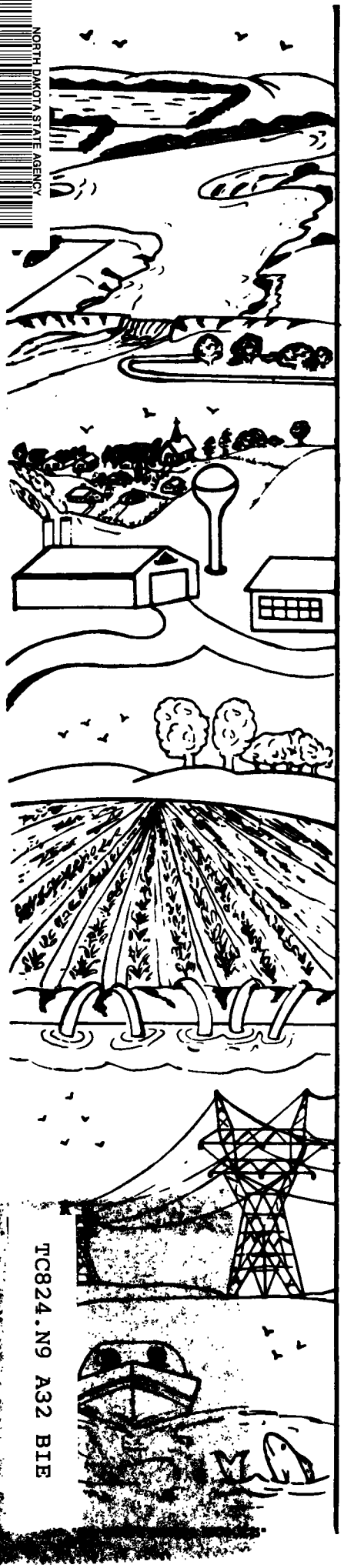

Report of

# NORTH DAKOTA STATE WATER COMMISSION

State Office Building

BISMARCK, NORTH DAKOTA 58501

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION
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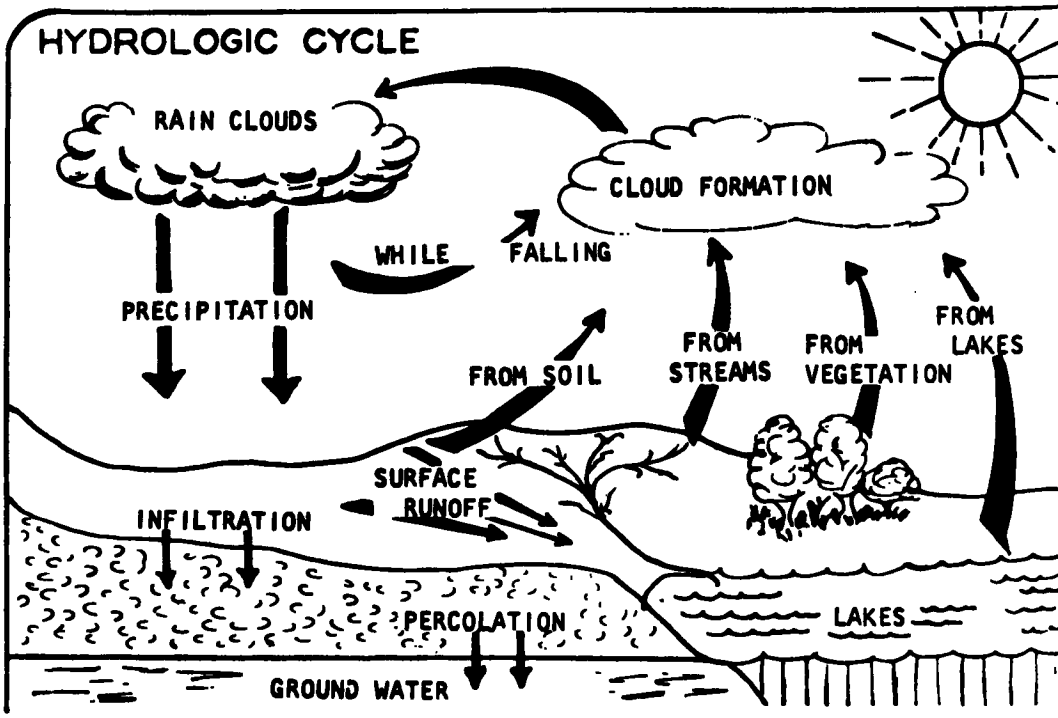
SEVENTEENTH BIENNIAL REPORT

FOR THE PERIOD

July 1, 1968 - June 30, 1970

Information Series #14




TC824.N9 A32 BIE

# North Dakota State Water Commission

State Office Building (701) 224-2750

Bismarck, North Dakota 58501


September 30, 1970

Honorable William L. Guy
Governor of North Dakota
State Capitol
Bismarck, North Dakota

RE: 1968-1970 Biennial Report
SWC File C6-1

Dear Governor Guy:

In compliance with North Dakota laws, we transmit for your information and consideration the Seventeenth Biennial Report of the North Dakota State Water Commission and the Thirty-fourth Biennial Report of the State Engineer for the period July 1, 1968 to June 30, 1970.

Respectfully submitted,

Richard P. Gallagher, Vice Chairman
Harold R. Hanson
James R. Jungroth
Alvin A. Kramer
Gordon K. Gray
Arne Dahl

Milo W. Hoisveen
Secretary and Chief Engineer
State Engineer


Governor William L. Guy, Chairman
Richard P. Gallagher, Vice Chairman-Mandan
Harold Hanson, New England
Russell Dushinske, Devils Lake
Henry J. Steinberger, Donnybrook
James Jungroth, Jamestown
Arne Dahl, Ex-Officio Member, Comm. of Agriculture & Labor
Milo W. Hoisveen, Secretary, Chief Engineer & State Engineer

# NORTH DAKOTA STATE WATER COMMISSION

## SEVENTEENTH BIENNIAL REPORT

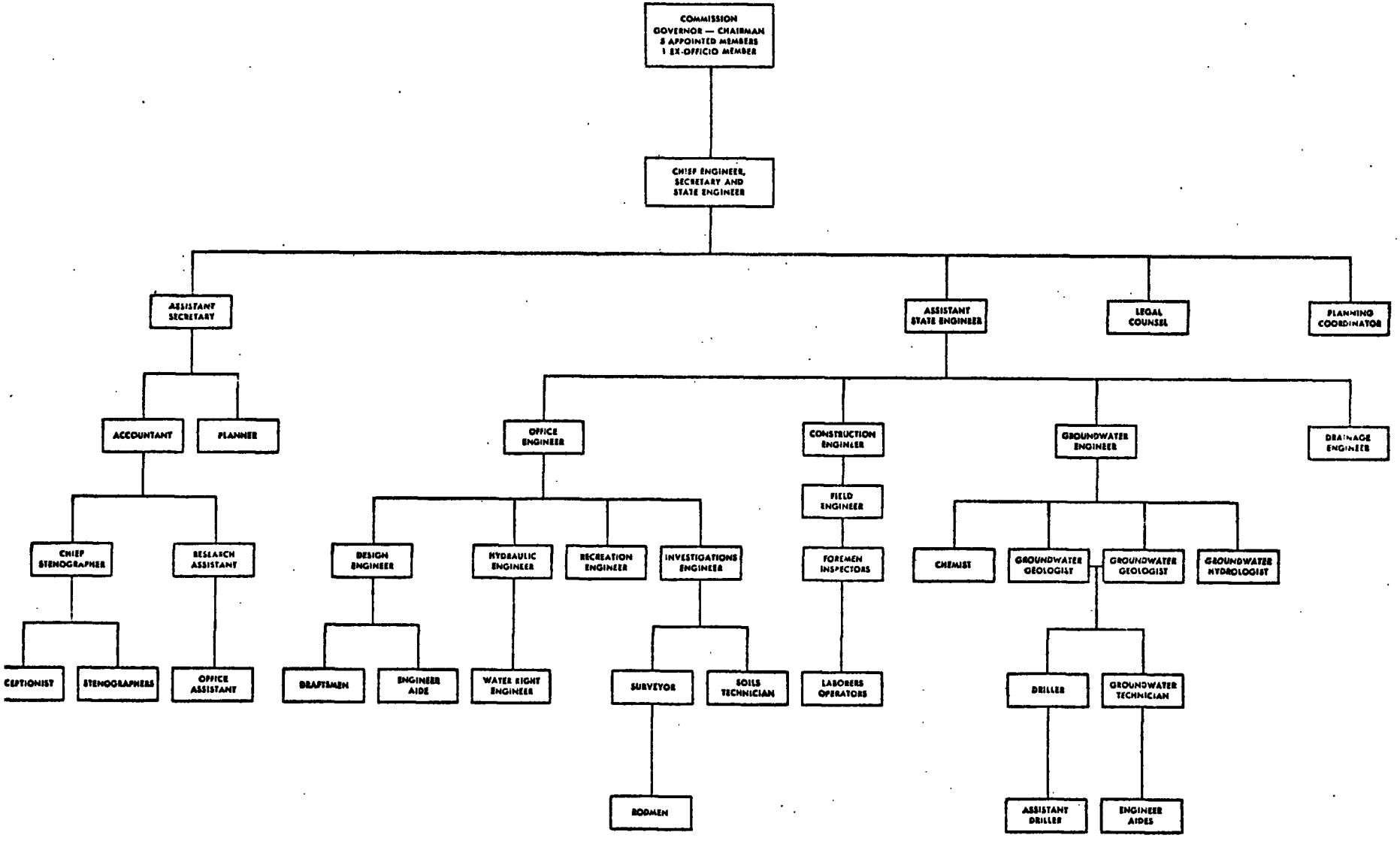
FOR THE PERIOD

July 1, 1968 - June 30, 1970

Information Series #14

# NORTH DAKOTA STATE WATER COMMISSION

## ORGANIZATION CHART



# COMMISSION MEMBERS AND STAFF AS OF JUNE 30, 1970

Commission Members:

| Name | Position | Date Appointed | Term Ends |
|---|---|---|---|
| Governor William L. Guy | Chairman | January 1, 1961 | |
| Richard P. Gallagher | Vice-Chairman | July 1, 1961 | July 1, 1973 |
| Russell Dushinske | Member | July 1, 1965 | July 1, 1970 |
| Harold Hanson | Member | July 1, 1965 | July 1, 1971 |
| James R. Jungroth | Member | September 1, 1967 | July 1, 1971 |
| Alvin A. Kramer | Member | April 8, 1970 | July 1, 1973 |
| Arne Dahl | Ex-officio Member | January 1, 1965 | |

Staff:

| Name | Position | Date Employed | Monthly Salary |
|---|---|---|---|
| Milo W. Hoisveen | Secretary-Chief Engineer State Engineer | July, 1954 | $1,625.00 |
| Gordon Baesler | Water Rights Technician | July, 1955 | 720.00 |
| Allen Balliet | Rodman | May, 1966 | 455.00 |
| Raymond Christensen | Engineer Technician | December, 1963 | 655.00 |
| Antoinette Dally | Stenographer | January, 1970 | 325.00 |
| Matt Emerson | Assistant Secretary | May, 1966 | 970.00 |
| Larry Froelich | Ground-Water Geologist | June, 1962 | 840.00 |
| Dale Froemming | Construction Inspector | May, 1964 | 540.00 |
| Oscar Gehring | Lab Technician | January, 1970 | 525.00 |
| Dale Glover | Hydrologist | September, 1962 | 1,000.00 |
| Alan Grindberg | Assistant Chief Engineer | June, 1966 | 1,265.00 |
| Arland Grunseth | Investigation Engineer | September, 1965 | 960.00 |
| William A. Hanson | Draftsman | April, 1970 | 475.00 |
| Milton Heupel | Field Engineer | August, 1968 | 960.00 |
| Eva Huchler | Stenographer | October, 1968 | 300.00 |
| Hugh Jacobson | Assistant Driller | April, 1966 | 495.00 |
| Cliff Jochim | Special Assistant Attorney General | May, 1963 | 575.00 |
| Lester Keator | Soils Technician | April, 1970 | 500.00 |
| James R. Knoll | Construction Inspector | April, 1969 | 475.00 |
| Lewis Knutson | Driller | September, 1955 | 645.00 |
| Kay Koch | Accountant | June, 1962 | 525.00 |
| Rosalie Kottsick | Stenographer | March, 1970 | 300.00 |
| Milton Lindvig | Ground-Water Engineer | November, 1963 | 1,000.00 |
| Sharon Locken | Chief Stenographer | October, 1967 | 500.00 |
| Robert McAdoo | Engineer Aide | June, 1970 | 487.75 |
| Garvin Muri | Chemist | June, 1967 | 735.00 |
| Charles Naplin | Ground-Water Geologist | June, 1967 | 790.00 |
| C. P. Nelson | Drainage Engineer | December, 1959 | 980.00 |
| George O'Brien | Draftsman | May, 1969 | 500.00 |
| Donald Ohnstad | Planning Engineer | November, 1968 | 935.00 |
| Roy Putz | Office Assistant | September, 1947 | 370.00 |
| Eugene Sackman | Surveyor | March, 1957 | 650.00 |
| George Schantz | Draftsman | October, 1963 | 525.00 |
| Roger Schmid | Ground-Water Hydrologist | March, 1961 | 925.00 |
| Delton Schulz | Office Engineer | July, 1961 | 1,110.00 |

Staff: (Continued)

| Name | Position | Date Employed | Monthly Salary |
|---|---|---|---|
| Lloyd Scott | Draftsman | February, 1968 | $ 660.00 |
| Anton Senger | Construction Inspector | August, 1961 | 570.00 |
| Myrna Siems | Stenographer | October, 1969 | 260.00 |
| Kenneth Simenson | Construction Engineer | February, 1966 | 1,000.00 |
| Glenn Speaks | Construction Inspector | November, 1966 | 540.00 |
| Ann Tillotson | Research Assistant | April, 1965 | 410.00 |
| Roger Ulrich | Rodman | January, 1968 | 425.00 |
| Howard Walterson | Construction Superintendent | March, 1959 | 670.00 |

## COMMISSION MEETINGS

| Date | Location |
|---|---|
| July 13, 1968 | Minot |
| September 23, 1968 | Bismarck |
| November 1, 1968 | Fargo |
| December 17, 1968 | Bismarck |
| February 11, 1969 | Bismarck |
| April 10, 1969 | Minot |
| May 21, 1969 | Grafton |
| June 27, 1969 | Devils Lake |
| August 12, 1969 | Jamestown |
| September 24, 1969 | Bowman |
| November 13, 1969 | Bismarck |
| December 12, 1969 | Minot |
| January 15, 1970 | Fargo |
| March 25, 1970 | Bismarck |
| May 22, 1970 | Bismarck |
| June 23, 1970 | Bisbee |

NORTH DAKOTA STATE WATER COMMISSION
FINANCIAL STATEMENT - JUNE 30, 1970
1969-71 APPROPRIATIONS

| | Available Funds | | Disbursements | | Account Balances | | |
|---|---|---|---|---|---|---|---|
| | APPROPRIATION | RECEIPTS | TO DATE | JUNE '70 | UNEXPENDED | ENCUMB. | UNENCUMB. |
| GENERAL OPERATIONS: ACCOUNT | | | | | | | |
| 1009-Salaries Expense | $ 811,901.00 | $ - | $ 385,779.05 | $ 31,743.59 | $ 426,121.95 | $ - | $ 426,121.95 |
| 2009-Fees & Services | 140,000.00 | - | 67,772.12 | 6,265.93 | 72,227.88 | - | 72,227.88 |
| 3009-Supplies & Materials | 150,500.00 | - | 73,173.90 | 6,302.01 | 77,326.10 | - | 77,326.10 |
| 4009-Equipment | 35,000.00 | - | 23,695.11 | - | 11,304.89 | 4,602.80 | 6,702.09 |
| 7709-Red Basin Comm. | 60,000.00 | - | 30,514.82 | 61.26 | 29,485.18 | - | 29,485.18 |
| GENERAL OPERATIONS | $1,115,401.00 | | | | | | |
| Federal Grants | 82,000.00 | | | | | | |
| TOTAL GENERAL OPERATIONS | $1,197,401.00 | $ - | $ 580,935.00 | $ 44,372.79 | $ 616,466.00 | $ 4,602.80 | $ 611,863.20 |
| CONTRACT FUND: | | | | | | | |
| 336-770-Contract"Cash"$1,000,000. Contract Collections 700,000. | $1,700,000.00 | | | | | | |
| Collections to Date | | $277,011.44 | | | | | |
| Transfer from 001 to 336 | | 525,000.00 | | | | | |
| | | | $ 783,806.56 | $ 53,997.85 | $ 916,193.44 | $811,006.00 | $ 105,187.44 |
| TOTAL CONTRACT FUND | $1,700,000.00 | $802,011.44 | $ 783,806.56 | $ 53,997.85 | $ 916,193.44 | $811,006.00 | $ 105,187.44 |
| GRAND TOTALS | $2,897,401.00 | $802,011.44 | $1,364,741.56 | $ 98,370.64 | $1,532,659.44 | $815,608.80 | $ 717,050.64 |

NORTH DAKOTA STATE WATER COMMISSION

STATUS OF CONSTRUCTION BOND GUARANTEE FUND
AS OF JUNE 30, 1970

| ACCOUNT | Available Funds APPROPRIATION | Available Funds RECEIPTS* | Disbursements TO DATE | Disbursements JUNE '70 | Account Balances UNEXPENDED | Account Balances ENCUMB. | Account Balances UNENCUMB. |
|---|---|---|---|---|---|---|---|
| 535-770-CONST. BOND GUAR. | $90,000.00 | $37,653.04 | $29,153.04 | $ - | $90,000.00 | $ - | $90,000.00 |
| 0500-INVESTMENT PRIN. | 20,000.00 | - | 10,500.00 | - | 9,500.00 | - | 9,500.00 |

NOTE - FUND #535-770 RECEIPTS ARE OBTAINED FROM RETIREMENT OF AN INTEREST ON SECURITIES THAT WERE IN THE COMMISSION'S SINKING FUND IN EXCESS OF THE AMOUNT REQUIRED TO RETIRE THE SERIES "J" BOND ISSUE ON DECEMBER 10, 1957. ORIGINAL DISBURSEMENTS FROM FUND #535-770 WERE MADE DURING THE EARLY 1940's IN ACCORDANCE WITH SECTION 61-02-56 OF THE CENTURY CODE WHICH PROVIDES THAT THE COMMISSION MAY GUARANTEE OR INSURE OR AGREE TO PAY THE INTEREST ON AND PRINCIPAL OF COMMISSION REVENUE BONDS NOT EXCEEDING 20% OF THE PAR VALUE OF ANY SUCH BONDS.

SCHEDULE OF BONDS & INTEREST RECEIVABLE - FUND #535-770

| TYPE | DUE DATE | INTEREST RATE | INTEREST TO MATURITY | PRINCIPAL | TOTAL INCOME ANTICIPATED |
|---|---|---|---|---|---|
| SIOUX IRRIGATION DIST. BONDS | 1984 Serially | 2.25% | $2,373.75 | $9,500.00 | $11,873.75 |

(EXCESS OVER $90,000.00 CASH IN FUND #535-770 TO BE CREDITED TO GENERAL FUND. 1/12/58 ATTORNEY GENERAL'S OPINION)

| RECEIPTS: | | |
|---|---|---|
| * RETIREMENT OF BONDS | $24,000.00 | |
| INTEREST ON BONDS | 9,521.05 | |
| SINKING FUND CASH | 4,131.99 | |
| | $37,653.04 | |

* ACCUMULATION OF RECEIPTS TO BOND GUARANTEE FUND SINCE FUND CREATED IN 1939

## RECAP OF DISBURSEMENTS AND PROJECT COSTS
July 1, 1968 to June 30, 1970

| | | | |
|---|---|---|---|
| **DISBURSEMENTS TO BE ACCOUNTED FOR:** | | | |
| Disbursements from Appropriations and Refunds - 1967-69 | | $1,329,644.44 | |
| Disbursements from Appropriations and Refunds - 1969-71 | | 1,364,741.56 | |
| Disbursements from Appropriations and Refunds - (prior) 1967-69 | | 9,961.53 | |
| Materials Used from Inventory - net | | 535.44 | |
| Depreciation - Office and Field Equipment | | 49,705.38 | |
| Total Disbursements to be accounted for | | | $2,753,517.47 |
| **DISBURSEMENTS CHARGED TO STATE WATER COMMISSION PROJECTS** | | | 2,631,819.03 |
| **DISBURSEMENTS CHARGED TO GENERAL OPERATING COSTS:** | | | |
| Personnel Services | | 80,832.50 | |
| Field Equipment (new) (Book value - 151,594.15) | | 38,376.98 | |
| Office Equipment (new) (Book value - 32,811.94) | | 9,893.44 | |
| Shop Building (Book value - $36,900.00) | | - - - | |
| Materials and Supplies (Inventory - 27,278.56) | | 7,753.90 | |
| Equipment Operation, Maintenance and Depreciation: | | | |
| Depreciation | 49,705.38 | | |
| Operation & Maintenance | 76,772.20 | | |
| Less Charged to Projects | -138,573.43 | -12,095.85 | |
| Miscellaneous Expenses | | - 3,062.53 | |
| Total Disbursements Charged to General Operating Costs | | | 121,698.44 |
| Total Disbursements Accounted for | | | $2,753,517.47 |

NORTH DAKOTA STATE WATER COMMISSION

Project Expenditures and Collections

July 1, 1968 to June 30, 1970

| Project No. | Name | County | FY'69 | FY'70 | Total | Collections |
|---|---|---|---|---|---|---|
| 216 | Bowman-Haley Dam | Various | $55,000.00 | $ 27.97 | $55,027.97 | $ |
| 221 | Burlington Dam 1 & 2 | Ward | 518.41 | 4,281.04 | 4,799.45 | |
| 222 | Buford-Trenton Irrigation Project | Williams | 56.65 | 535.55 | 592.20 | |
| 227 | Eaton Flood Irrigation | McHenry | | 4,552.31 | 4,552.31 | |
| 232 | Knife River Basin | Various | 12,300.08 | 34,984.42 | 47,284.50 | |
| 235 | Goose River Flood Control | Traill | 208.79 | 3,113.32 | 3,322.11 | |
| 237 | Missouri River Diversion | Various | 1,018.09 | 235.21 | 1,253.30 | |
| 245 | Soland Dam | Mercer | 125.49 | | 125.49 | |
| 259 | Kulm Dam | LaMoure | 48,680.31 | 787.29 | 49,467.60 | 30,592.67 |
| 260 | Olson Dam | Burleigh | 408.30 | | 408.30 | 200.00 |
| 262 | Cannonball Basin | Various | 29.21 | | 29.21 | |
| 266 | Tolna Dam #1 | Nelson | 520.23 | | 520.23 | |
| 274 | Neche Dam | Pembina | | 29.10 | 29.10 | |
| 291 | Sarnia Dam | Nelson | 139.06 | | 139.06 | |
| 301 | Tongue River | Pembina | | 29.01 | 29.01 | |
| 305 | Red River Basin | Various | 39,018.51 | 36,679.92 | 75,698.43 | |
| 319 | Wakopa Project | Rolette | 575.42 | | 575.42 | |
| 320 | Bohlman Dam | Hettinger | 1,601.50 | | 1,601.50 | |
| 322 | State Water Plan | Various | 61,808.70 | 42,309.70 | 104,118.40 | 70,278.00 |
| 327 | White Earth Dam | Mountrail | 9,399.72 | 10,892.39 | 20,292.11 | |
| 330 | Lake Metigoshe | Bottineau | 56.98 | 34.32 | 91.30 | |
| 342 | Hansen Dam | Barnes | 1,015.94 | | 1,015.94 | 100.00 |
| 346 | Epping Dam | Williams | 2,268.08 | 132.47 | 2,400.55 | 1,000.00 |
| 347 | Velva Flood Control | McHenry | 1,649.88 | | 1,649.88 | |
| 359 | Wolf Butte Dam | Adams | 1,143.77 | 3,118.67 | 4,262.44 | |
| 362 | Balta Dam | Pierce | | 80.80 | 80.80 | |
| 364 | Yanktonai Dam | McLean | 61.60 | | 61.60 | |
| 368 | Hesper Dam | Benson | | 66.44 | 66.44 | |
| 371 | Maddock Dam | Benson | | 58.19 | 58.19 | |
| 374 | Danzig Dam | Morton | 27.01 | | 27.01 | |
| 389 | Fessenden Dam | Wells | 141.69 | | 141.69 | |

| Project No. | Name | County | FY'69 | FY'70 | Total | Collections |
|---|---|---|---|---|---|---|
| 391 | Silver Lake Dam | Sargent | $ | $ | $ | $ 1,516.90 |
| 416 | Devils Lake Basin | Various | 6,619.83 | 2,463.41 | 9,083.24 | 5,686.11 |
| 420 | Mirror Lake Dam | Adams | 57.59 | 211.44 | 269.03 | 200.00 |
| 450 | Sykeston Dam | Wells | 991.14 | | 991.14 | |
| 459 | Brown Dam | Barnes | 624.32 | 14,364.04 | 14,988.36 | |
| 460 | Ueland Dam | Griggs | 28.49 | 1,427.94 | 1,456.43 | |
| 461 | Spiritwood Lake | Stutsman | 778.30 | 2,393.29 | 3,171.59 | |
| 464 | Niagria Dam | Grand Forks | | 2,511.03 | 2,511.03 | |
| 466 | Just Dam | McIntosh | | 58.30 | 58.30 | |
| 475 | Golden Lake | Steele | 245.06 | 174.24 | 419.30 | |
| 476 | Faust Dam | Barnes | | 2,037.53 | 2,037.53 | 200.00 |
| 479 | Fish Creek Dam | Morton | | 188.98 | 188.98 | |
| 480 | James River Basin | Various | 18.08 | 408.07 | 426.15 | |
| 489 | Ray Dam | Williams | 114.90 | | 114.90 | |
| 499 | Lake Ensign | Barnes | | 235.40 | 235.40 | |
| 501 | Pheasant Lake | Dickey | | 9,256.08 | 9,256.08 | |
| 503 | Lake Ibsen | Benson | | 1,984.85 | 1,984.85 | 200.00 |
| 506 | Big Meadow Drain | Williams | | 39.93 | 39.93 | |
| 511 | Reed Dam | Burleigh | 1.65 | | 1.65 | |
| 527 | Kelly Slough | Grand Forks | 56.98 | | 56.98 | |
| 528 | McGregor Dam | Williams | | 1,717.77 | 1,717.77 | 3,114.48 |
| 538 | Burlington Park Dam | Ward | | 28.44 | 28.44 | |
| 543 | North Lemmon Lake Dam | Adams | | 21,636.94 | 21,636.94 | 15,844.45 |
| 557 | Gascoyne Lake | Bowman | | | | 200.00 |
| 558 | Linton Flood Control | Emmons | 20.48 | 994.53 | 1,015.01 | |
| 559 | Hurricane Lake | Pierce | | 740.29 | 740.29 | 200.00 |
| 560 | Blacktail Dam | Williams | 12,825.13 | 50,159.76 | 62,984.89 | 22,468.46 |
| 561 | Tioga Dam | Williams | 265.71 | 2,482.38 | 2,748.09 | |
| 565 | Buffalo Lake | Pierce | 8,978.57 | 5,702.17 | 14,680.74 | |
| 567 | Pembilier Dam | Various | 454.08 | 419.85 | 873.93 | |
| 568 | Sheyenne River Channel Clearing | Cass | 242.39 | 6,428.51 | 6,670.90 | 15,399.00 |
| 576 | Missouri River Bank Stabilization | Various | 8,720.47 | 1,232.02 | 9,952.49 | 3,363.07 |
| 580 | Enderlin Park Dam | Ransom | 168.65 | 596.26 | 764.91 | |
| 586 | Short Creek Dam | Burke | 849.46 | | 849.46 | |
| 591 | Fargo 12th Avenue North Dam | Cass | 11,369.36 | | 11,369.36 | 3,642.56 |
| 593 | Sherwood Dam | Renville | 52.20 | | 52.20 | |
| 600 | Crystal Dam | Pembina | 829.37 | 9,111.59 | 9,940.96 | 27,242.46 |

| Project No. | Name | County | FY'69 | FY'70 | Total | Collections |
|---|---|---|---|---|---|---|
| 601 | Bucephalia Dam | Foster | $ 4,204.91 | $ 2,399.77 | $ 6,604.68 | $ |
| 613 | Arnegard Dam | McKenzie | | | | 2,000.00 |
| 615 | Ellendale Water Supply | Dickey | | 89.67 | 89.67 | |
| 619 | Hunter Water Supply | Cass | 3,949.70 | 18,348.89 | 22,298.59 | |
| 624 | James River Channel Change | Stutsman | 154.00 | | 154.00 | |
| 626 | Upper West Souris Flood Control | Various | | 357.89 | 357.89 | |
| 627 | Froelich Dam | Sioux | | 155.46 | 155.46 | |
| 632 | Antler Creek Dam | Bottineau | 221.74 | 2,397.01 | 2,618.75 | |
| 646 | Christine Dam | Richland | | 30,933.81 | 30,933.81 | 20,718.96 |
| 647 | Green River Dam | Various | | 2,855.76 | 2,855.76 | 200.00 |
| 649 | Ypsilanti Dam | Stutsman | 1,038.65 | | 1,038.65 | |
| 651 | Hoople Dam | Walsh | | 111.49 | 111.49 | |
| 653 | Katz Dam | McLean | | 184.47 | 184.47 | |
| 656 | New Rockford Railroad Dam | Eddy | 121.34 | 45,735.17 | 45,856.51 | |
| 660 | Grafton Railroad Dam | Walsh | 53.63 | 75.90 | 129.53 | |
| 662 | Park River Snagging & Clearing | Walsh | 134.97 | | 134.97 | |
| 665 | Armourdale Dam | Towner | 249.81 | 3,779.50 | 4,029.31 | |
| 667 | Northgate Dam | Burke | 68,094.60 | 15,032.62 | 83,127.22 | 48,000.00 |
| 671 | Harvey Dam | Wells | | 420.86 | 420.86 | |
| 672 | Turtle River State Park | Grand Forks | 5,604.20 | 241.19 | 5,845.39 | |
| 679 | Ditch Mapping | Various | 54.01 | | 54.01 | |
| 681 | Drayton Dam | Pembina | 31.72 | | 31.72 | |
| 682 | State Water Commission Shop | Burleigh | | 357.20 | 357.20 | |
| 685 | Glenburn Water Supply | Renville | 367.19 | 16,930.39 | 17,297.58 | 5,500.00 |
| 704 | Chain Lakes Water Management Dist. | Ramsey | 3.61 | | 3.61 | |
| 721 | Stone Creek Watershed | Bottineau | | 89.43 | 89.43 | |
| 722 | Sweetwater-Dry Lake W. M. D. | Towner | 103.93 | | 103.93 | |
| 723 | Towner County W. M. D. | Towner | 66.55 | | 66.55 | |
| 740 | Bowman Ground-Water Survey | Bowman | 74.54 | 68.59 | 143.13 | |
| 741 | Buxton Ground-Water Survey | Traill | 1,599.30 | 1,056.89 | 2,656.19 | |
| 745 | Columbus Ground-Water Survey | Burke | 1,246.98 | 595.54 | 1,842.52 | |
| 750 | Ellendale Ground-Water Survey | Dickey | 8,715.08 | 6,331.38 | 15,046.46 | 3,000.00 |
| 765 | Hoople Water Supply | Walsh | 182.27 | 5,959.65 | 6,141.92 | 200.00 |
| 782 | Minot Water Supply | Ward | 28,498.77 | 46,943.25 | 75,442.02 | |
| 810 | Westhope Water Supply | Bottineau | 15,373.78 | | 15,373.78 | |
| 817 | Burleigh Co. Ground-Water Survey | Burleigh | 113.85 | | 113.85 | |
| 818 | Kidder Co. Ground-Water Survey | Kidder | 3,160.52 | 571.60 | 3,732.12 | |
| 819 | Stutsman Co. Ground-Water Survey | Stutsman | | 127.58 | 127.58 | |

| Project No. | Name | County | FY'69 | FY'70 | Total | Collections |
|---|---|---|---|---|---|---|
| 820 | Oak-Willow Cr. Snagging & Clearing | Various | $ 61.00 | $ 160.44 | $ 221.44 | $ |
| 821 | Bowman County W. M. D. | Bowman | | 362.71 | 362.71 | |
| 828 | Homme Dam | Walsh | 304.04 | | 304.04 | |
| 832 | Jamestown Dam | Stutsman | 116.07 | | 116.07 | |
| 841 | Maple River Watershed | Various | | 26.40 | 26.40 | |
| 842 | Starkweather Watershed | Various | 496.88 | 100.20 | 597.08 | |
| 843 | Edmore Watershed | Various | 5,500.00 | | 5,500.00 | |
| 849 | Tongue River Watershed | Various | 290.40 | | 290.40 | |
| 852 | Willow Creek Watershed | Various | 26.81 | 53.97 | 80.78 | |
| 858 | Eddy-Foster Ground-Water Survey | Eddy-Foster | 165.00 | | 165.00 | |
| 859 | Williams Co. Ground-Water Survey | Williams | 2,976.52 | 1,732.92 | 4,709.44 | |
| 860 | McKenzie Co. Ground-Water Survey | McKenzie | 29.04 | | 29.04 | |
| 861 | Burke-Mountrail Ground-Water Sur. | Burke-Mountrail | 14,669.71 | 294.33 | 14,964.04 | 17,000.00 |
| 862 | Divide Co. Ground-Water Survey | Divide | | 367.84 | 367.84 | |
| 863 | Renville-Ward Ground-Water Survey | Renville-Ward | 312.40 | 119.24 | 431.64 | 3,000.00 |
| 864 | Bottineau Co. Ground-Water Survey | Bottineau | | 126.49 | 126.49 | |
| 866 | Cass County Ground-Water Survey | Cass | 288.92 | 290.43 | 579.35 | |
| 868 | Traill County Ground-Water Survey | Traill | | 59.62 | 59.62 | |
| 871 | Pembina River Snagging & Clearing | Various | | 170.44 | 170.44 | |
| 926 | Dickinson Flood Control | Stark | 2,923.14 | | 2,923.14 | |
| 929 | Forest River Watershed | Various | 415.21 | | 415.21 | |
| 935 | Bench Marks | Various | 1,947.23 | 1,546.11 | 3,493.34 | |
| 936 | Field Notes and Plats | Various | 465.00 | 239.58 | 704.58 | |
| 940 | Adams County Ground-Water Survey | Adams | 105.14 | 59.62 | 164.76 | |
| 941 | Benson-Pierce Ground-Water Survey | Benson-Pierce | 23,200.38 | 29,385.79 | 52,586.17 | 21,200.00 |
| 942 | Billings Co. Ground-Water Survey | Billings | 214.05 | | 214.05 | |
| 943 | Bowman Co. Ground-Water Survey | Bowman | | 363.22 | 363.22 | |
| 944 | Cavalier-Pembina Ground-Water Sur. | Cavalier-Pembina | 4,450.39 | 27,783.46 | 32,233.85 | 18,382.04 |
| 947 | Steele County Ground-Water Survey | Steele | | 98.79 | 98.79 | |
| 949 | Golden Valley Ground-Water Survey | Golden Valley | 339.48 | 280.23 | 619.71 | |
| 950 | Grand Forks Co. Ground-Water Sur. | Grand Forks | 304.15 | 1,648.34 | 1,952.49 | |
| 951 | Grant County Ground-Water Survey | Grant | | 326.43 | 326.43 | |
| 952 | Griggs County Ground-Water Survey | Griggs | 84.04 | 394.82 | 478.86 | |
| 953 | Hettinger-Stark Ground-Water Sur. | Hettinger-Stark | 50,438.19 | 1,245.68 | 51,683.87 | 24,600.00 |
| 956 | McHenry Co. Ground-Water Survey | McHenry | 106.43 | 479.14 | 585.57 | |
| 958 | McLean Co. Ground-Water Survey | McLean | 7,150.55 | 26,887.80 | 34,038.35 | 19,000.00 |
| 959 | Mercer-Oliver Ground-Water Survey | Mercer-Oliver | 34,326.05 | 20,215.53 | 54,541.58 | 16,500.00 |
| 960 | Morton Co. Ground-Water Survey | Morton | 62.46 | 99.00 | 161.46 | |

| Project No. | Name | County | FY'69 | FY'70 | Total | Collections |
|---|---|---|---|---|---|---|
| 962 | Nelson-Walsh Ground-Water Survey | Nelson-Walsh | $12,004.96 | $34,212.85 | $46,217.81 | $ 23,000.00 |
| 964 | Cavalier-Pembina Ground-Water Sur. | Cavalier-Pembina | | 33.00 | 33.00 | |
| 966 | Ramsey Co. Ground-Water Survey | Ramsey | | 74.86 | 74.86 | |
| 967 | Ransom Co. Ground-Water Survey | Ransom | 33.00 | | 33.00 | |
| 970 | Sherian Co. Ground-Water Survey | Sheridan | | 423.50 | 423.50 | |
| 971 | Sioux County Ground-Water Survey | Sioux | | 98.79 | 98.79 | |
| 974 | Steele Co. Ground-Water Survey | Steele | 72.82 | 10,826.77 | 10,899.59 | |
| 975 | Towner Co. Ground-Water Survey | Towner | 56.76 | | 56.76 | |
| 978 | Wells County Ground-Water Survey | Wells | 53.63 | 730.88 | 784.51 | |
| 980 | Maple River Watershed | Dickey | | 61.60 | 61.60 | |
| 982 | Park River W. S. & Flood Control | Various | 213.62 | 295.42 | 509.04 | |
| 983 | Coleharbor Water Supply | McLean | 691.33 | | 691.33 | |
| 984 | Souris River Basin | Various | 162.53 | 79.20 | 241.73 | |
| 985 | Turtle River Watershed | Various | | 116.60 | 116.60 | |
| 986 | Wild Rice "B" Watershed | Richland | 270.05 | 212.19 | 482.24 | |
| 988 | Antelope Creek Improvement | Richland | 107.26 | | 107.26 | |
| 989 | Quality of Water Studies | Various | 1,859.62 | 4,486.85 | 6,346.47 | |
| 999 | Road Drainage - General | Various | 122.21 | 87.45 | 209.66 | |
| 1002 | Benson County Road Drainage | Benson | | 61.44 | 61.44 | |
| 1007 | Burleigh County Road Drainage | Burleigh | 140.37 | | 140.37 | |
| 1008 | Cass County Road Drainage | Cass | | 223.16 | 223.16 | |
| 1031 | Nelson County Road Drainage | Nelson | 26.82 | 58.30 | 85.12 | |
| 1035 | Ramsey County Road Drainage | Ramsey | | 64.68 | 64.68 | |
| 1048 | Traill County Road Drainage | Traill | 122.44 | 90.92 | 213.36 | |
| 1053 | Drainage - General | Various | 2,971.83 | 2,671.70 | 5,643.53 | |
| 1054 | Barnes County Drainage - General | Barnes | 106.21 | 569.00 | 675.21 | |
| 1056 | Bottineau Co. Drainage - General | Bottineau | | 160.05 | 160.05 | |
| 1061 | Stone Creek Drain | Bottineau | 162.03 | 126.62 | 288.65 | |
| 1063 | Cass County Drainage - General | Cass | | 235.02 | 235.02 | |
| 1065 | Cass County Drain #3 | Cass | | 22,351.87 | 22,351.87 | |
| 1069 | Cass County Drain #13 | Cass | 7,352.93 | 8,014.23 | 15,367.16 | |
| 1070 | Cass County Drain #14 | Cass | 9,841.67 | 5,421.46 | 15,263.13 | |
| 1071 | Cass County Drain #15 | Cass | 54.01 | 145.70 | 199.71 | |
| 1072 | Cass County Drain #16 | Cass | 4,666.84 | | 4,666.84 | |
| 1077 | Cass County Drain #24 | Cass | 1,301.37 | 1,327.84 | 2,629.21 | |
| 1079 | Cass County Drain #26 | Cass | 2,325.50 | | 2,325.50 | |
| 1080 | Cass County Drain #27 | Cass | 5,685.98 | | 5,685.98 | |

| Project No. | Name | County | FY'69 | FY'70 | Total | Collections |
|---|---|---|---|---|---|---|
| 1081 | Cass County Drain #29 | Cass | $ 379.10 | $ | $ 379.10 | $ |
| 1084 | Cass County Drain #32 | Cass | | 29.15 | 29.15 | |
| 1089 | Cass County Drain #39 | Cass | | 160.38 | 160.38 | |
| 1091 | Cass County Drain #41 | Cass | | 131.23 | 131.23 | |
| 1095 | Cass County Drain #47 | Cass | | 38.94 | 38.94 | |
| 1098 | Cavalier Co. Drainage - General | Cavalier | 107.25 | 91.00 | 198.25 | |
| 1101 | Dickey County Drainage - General | Dickey | 340.08 | | 340.08 | |
| 1105 | Grand Forks Co. Drainage - General | Grand Forks | | 29.15 | 29.15 | |
| 1107 | Grand Forks Co. Drain #4 | Grand Forks | 2,810.24 | 87.40 | 2,897.64 | |
| 1129 | LaMoure County Drainage - General | LaMoure | | 196.48 | 196.48 | |
| 1131 | Nelson County Drainage - General | Nelson | 366.81 | 457.04 | 823.85 | |
| 1133 | Pembina County Drainage - General | Pembina | 135.44 | 299.15 | 434.59 | |
| 1136 | Pembina County Drain #6 | Pembina | 26.81 | | 26.81 | |
| 1139 | Pembina County Drain #10 | Pembina | 137.34 | 7.33 | 144.67 | |
| 1148 | Pembina County Drain #24 | Pembina | 959.61 | | 959.61 | |
| 1154 | Pembina County Drain #38 | Pembina | 4,492.40 | | 4,492.40 | |
| 1157 | Pembina County Drain #47 | Pembina | 14.61 | | 14.61 | |
| 1164 | Pembina County Drain #64 | Pembina | | 212.11 | 212.11 | |
| 1169 | Pembina County Drain #62 | Pembina | | 363.30 | 363.30 | |
| 1170 | Pierce County Drainage - General | Pierce | | 77.59 | 77.59 | |
| 1171 | Ramsey County Drainage - General | Ramsey | | 305.91 | 305.91 | |
| 1172 | Ransom County Drainage - General | Ransom | | 86.94 | 86.94 | |
| 1173 | Renville Co. Drainage - General | Renville | | 766.35 | 766.35 | |
| 1174 | Richland Co. Drainage - General | Richland | 81.02 | | 81.02 | |
| 1176 | Richland County Drain #2 | Richland | | 900.12 | 900.12 | |
| 1185 | Richland County Drain #18 | Richland | 43.98 | | 43.98 | |
| 1196 | Richland County Drain #37 | Richland | | 539.23 | 539.23 | |
| 1218 | Rolette County Drainage - General | Rolette | 106.62 | | 106.62 | |
| 1219 | Sargent County Drainage - General | Sargent | 54.01 | | 54.01 | |
| 1223 | Steele County Drainage - General | Steele | 26.81 | 429.12 | 455.93 | |
| 1224 | Traill County Drainage - General | Traill | 53.63 | 262.35 | 315.98 | |
| 1252 | Walsh County Drainage - General | Walsh | 79.59 | 13.20 | 92.79 | |
| 1256 | Walsh County Drain #25 | Walsh | | 64.68 | 64.68 | |
| 1262 | Ward County Drainage - General | Ward | | 116.60 | 116.60 | |
| 1263 | Adams County Small Projects | Adams | 225.24 | | 225.24 | 200.00 |
| 1265 | Benson County Small Projects | Benson | | 333.65 | 333.65 | |
| 1267 | Bottineau County Small Projects | Bottineau | 62.96 | | 62.96 | |
| 1270 | Burleigh County Small Projects | Burleigh | 85.42 | 209.10 | 294.52 | |

| Project No. | Name | County | FY'69 | FY'70 | Total | Collections |
|---|---|---|---|---|---|---|
| 1273 | Dickey County Small Projects | Dickey | $ | $ 220.73 | $ 220.73 | $ 200.00 |
| 1274 | Divide County Small Projects | Divide | | | | |
| 1277 | Emmons County Small Projects | Emmons | 64.35 | | 64.35 | |
| 1278 | Foster County Small Projects | Foster | | 37.54 | 37.54 | |
| 1279 | Golden Valley Co. Small Projects | Golden Valley | | 111.16 | 111.16 | |
| 1281 | Grant County Small Projects | Grant | 316.91 | | 316.91 | |
| 1282 | Griggs County Small Projects | Griggs | | 35.70 | 35.70 | |
| 1285 | LaMoure County Small Projects | LaMoure | 105.60 | | 105.60 | |
| 1286 | Logan County Small Projects | Logan | | 135.42 | 135.42 | |
| 1287 | McHenry County Small Projects | McHenry | | 43.01 | 43.01 | |
| 1290 | McLean County Small Projects | McLean | 978.42 | 267.20 | 1,245.62 | 200.00 |
| 1291 | Mercer County Small Projects | Mercer | | 113.98 | 113.98 | |
| 1293 | Mountrail County Small Projects | Mountrail | 80.63 | | 80.63 | |
| 1294 | Nelson County Small Projects | Nelson | 106.54 | 315.72 | 422.26 | |
| 1295 | Oliver County Small Projects | Oliver | 236.12 | 936.49 | 1,172.61 | 200.00 |
| 1296 | Pembina County Small Projects | Pembina | 114.30 | 55.94 | 170.24 | |
| 1301 | Richland County Small Projects | Richland | 99.85 | 240.58 | 340.43 | |
| 1306 | Slope County Small Projects | Slope | 84.37 | | 84.37 | |
| 1307 | Stark County Small Projects | Stark | 25.85 | | 25.85 | |
| 1308 | Steele County Small Projects | Steele | | 84.15 | 84.15 | |
| 1310 | Towner County Small Projects | Towner | | 395.29 | 395.29 | |
| 1312 | Walsh County Small Projects | Walsh | 102.91 | | 102.91 | |
| 1314 | Wells County Small Projects | Wells | | | | 200.00 |
| 1316 | Towner County Drainage | Towner | 72.77 | 58.30 | 131.07 | |
| 1318 | Liberty Township Dam | Ransom | | 29.15 | 29.15 | |
| 1320 | Willow Creek-Park River Watershed | Various | 53.63 | | 53.63 | |
| 1328 | Cass County Drain #23 | Cass | 27.01 | | 27.01 | |
| 1341 | Rugby Ground-Water Survey | Pierce | | 51.21 | 51.21 | |
| 1344 | Sheyenne River Flood Control | Various | 424.85 | 699.23 | 1,124.08 | |
| 1346 | Mt. Carmel Dam | Cavalier | 1,654.82 | 31,281.15 | 32,935.97 | |
| 1347 | Kindred Dam | Richland | 134.07 | 42.17 | 176.24 | |
| 1348 | Stutsman Co. Drainage - General | Stutsman | 40.07 | 282.26 | 322.33 | |
| 1351 | English Coulee | Grand Forks | 58,448.85 | 29.10 | 58,477.95 | 18,920.74 |
| 1356 | Red Willow Lake | Griggs | | 87.12 | 87.12 | |
| 1358 | Sheep Creek Dam | Grant | 7,791.53 | 169,123.86 | 176,915.39 | 28,582.10 |
| 1359 | Barnes County Drain #2 | Barnes | 197.36 | | 197.36 | |
| 1376 | Outdoor Recreation - General | Various | 953.74 | 604.26 | 1,558.00 | |
| 1377 | Lucca Dam | Barnes | 262.05 | 837.89 | 1,099.94 | |

| Project No. | Name | County | FY'69 | FY'70 | Total | Collections |
|---|---|---|---|---|---|---|
| 1378 | Clausen Springs | Barnes | $ 3,732.47 | $ 379.70 | $ 4,112.17 | $ 11,648.13 |
| 1382 | Camel Butte Dam | Golden Valley | 1,809.78 | | 1,809.78 | |
| 1385 | Cart Creek Snagging & Clearing | Various | | 17.89 | 17.89 | |
| 1388 | W. M. D. - Statewide | Various | 193.05 | 201.02 | 394.07 | |
| 1390 | Watershed Projects | Various | 5.83 | | 5.83 | |
| 1392 | Missouri R. Reservoir Oper. - Gen. | Various | 90.20 | 89.13 | 179.33 | |
| 1393 | Hydrologic Surveys - General | Various | 31,932.29 | 26,968.05 | 58,900.34 | |
| 1394 | Topographic Surveys - General | Various | 73,965.99 | 161,413.30 | 235,379.29 | |
| 1395 | Ground-Water Surveys - General | Various | 56,483.32 | 39,019.57 | 95,502.89 | |
| 1396 | Missouri R. Basin Comp. Planning | Various | 2,862.89 | 1,618.84 | 4,481.73 | |
| 1397 | Pollution Control - General | Various | 34.71 | 133.27 | 167.98 | |
| 1398 | Conservation Training Center | Various | 261.74 | 512.78 | 774.52 | |
| 1400 | Water Permits - General | Various | 5,351.10 | 8,391.71 | 13,742.81 | |
| 1401 | International Boundary Drain | Various | 202.40 | 89.21 | 291.61 | |
| 1402 | Carlson Dam | Griggs | 59.40 | | 59.40 | |
| 1403 | N.D. Water Resources Research Inst. | Various | 55.28 | | 55.28 | |
| 1407 | Stanley Dam | Mountrail | 53,504.94 | 1,159.57 | 54,664.51 | 16,227.17 |
| 1408 | Minot Flood Control | Ward | 2,580.36 | 2,005.45 | 4,585.81 | |
| 1413 | Buffalo Coulee Watershed | Traill | 327.79 | 384.83 | 712.62 | |
| 1415 | Richland County Drain #66 | Richland | 134.39 | 9,649.82 | 9,784.21 | |
| 1418 | Big Coulee Dam | Towner | 125,764.78 | 8,670.61 | 134,435.39 | 58,639.18 |
| 1419 | Walsh County Drain #28 | Walsh | 32,168.91 | | 32,168.91 | |
| 1422 | Balthauser-Moyer Cutoff | Cass | | 72.82 | 72.82 | |
| 1423 | O. E. P. Projects - General | Various | 182.99 | | 182.99 | |
| 1425 | Hatton Dam | Steele | 101.44 | | 101.44 | |
| 1431 | Emergency-Disaster Operation | Various | 15,445.22 | 6,654.95 | 22,100.17 | |
| 1435 | Green Lake | McIntosh | 113.30 | | 113.30 | |
| 1438 | Mulberry Creek Drain | Cavalier | 153.47 | | 153.47 | |
| 1442 | Flowing Wells | Various | | 102.74 | 102.74 | |
| 1444 | Pembina Flood Control | Pembina | 688.10 | 31,714.09 | 32,402.19 | 2,500.00 |
| 1445 | Grand Forks County Drain #32 | Grand Forks | 16,736.90 | | 16,736.90 | |
| 1446 | Grand Forks County Drain #33 | Grand Forks | 4,329.03 | 87.45 | 4,416.48 | |
| 1449 | Wells County Drainage - General | Wells | | 97.66 | 97.66 | |
| 1453 | Karey Dam | Hettinger | | 92.06 | 92.06 | |
| 1454 | Tolley Water Supply | Renville | 43.80 | 32.70 | 76.50 | 200.00 |
| 1455 | Wilson Dam | Dickey | 24,868.48 | 298.78 | 25,167.26 | 11,426.97 |
| 1460 | Ground-Water Recharge Research | Various | 108.02 | | 108.02 | |
| 1461 | Pembina River Channel Change | Pembina | | 408.93 | 408.93 | |

| Project No. | Name | County | FY'69 | FY'70 | Total | Collections |
|---|---|---|---|---|---|---|
| 1464 | Beulah Dam | Mercer | $22,210.51 | $ | $22,210.51 | $ |
| 1469 | Big Buffalo Dam | Stutsman | 97.59 | | 97.59 | |
| 1471 | Erie Dam | Cass | 539.36 | 34,115.40 | 34,654.76 | |
| 1473 | Stutsman County Drain #3 | Stutsman | 175.04 | 113.19 | 288.23 | |
| 1474 | Traill County Drain #43 | Traill | 15,885.18 | | 15,885.18 | |
| 1475 | Traill County Drain #45 | Traill | 15,802.58 | | 15,802.58 | |
| 1476 | Hillsboro Mun. Watershed | Traill | 194.37 | 2,153.34 | 2,347.71 | |
| 1477 | Scophammer Dam | Renville | | | | 1,109.41 |
| 1479 | Holly-Harwood Dam | Cass | 2,056.09 | | 2,056.09 | |
| 1481 | State Office Building | Burleigh | 34.10 | 395.05 | 429.15 | |
| 1482 | Traill County Drain #46 | Traill | 29.21 | | 29.21 | |
| 1483 | Wells County Drain #1 | Wells | 4,718.09 | | 4,718.09 | |
| 1484 | Walsh County Drain #29 | Walsh | 10,186.69 | | 10,186.69 | |
| 1487 | Hans Creek Dam | Dunn | 3,960.30 | 220.00 | 4,180.30 | |
| 1488 | Trans Basin Division | Various | | 125.84 | 125.84 | |
| 1489 | North Dakota Wetlands - General | Various | 26.60 | 58.30 | 84.90 | |
| 1490 | N.D. Research Conservation & Devel. | Various | 27.06 | 145.75 | 172.81 | |
| 1491 | Hidatsa Indian Village | Various | 4.62 | | 4.62 | |
| 1492 | Wells County Drain #2 | Wells | | 11,877.44 | 11,877.44 | |
| 1493 | Brag Dam | Various | 12,719.55 | 466.57 | 13,186.12 | |
| 1494 | Missouri R. Main Stem Irrigation | Various | | 172.65 | 172.65 | |
| 1495 | Lignite Resources Development | Various | 2,566.17 | 1,789.25 | 4,355.42 | |
| 1496 | Lake Elsie | Richland | 247.58 | 1,624.20 | 1,871.78 | 200.00 |
| 1497 | Thirty-Mile Creek Basin | Hettinger | 18,570.13 | | 18,570.13 | |
| 1498 | Richland County Drain #68 | Richland | 137.35 | | 137.35 | |
| 1499 | Grand Forks County Drain #39 | Grand Forks | 161.74 | 2,788.28 | 2,950.02 | |
| 1501 | Otter Creek Basin | Various | 10,196.67 | | 10,196.67 | |
| 1502 | Jensen Dam | Grand Forks | 2,183.44 | | 2,183.44 | |
| 1503 | Medora Dam | Billings | 1,989.63 | | 1,989.63 | 200.00 |
| 1504 | Valley City Flood Control | Barnes | 1,213.41 | | 1,213.41 | |
| 1505 | Grand Forks Drain #37 | Grand Forks | 14.60 | 1,347.87 | 1,362.47 | |
| 1507 | Yellowstone River Basin | McKenzie | 73.02 | | 73.02 | |
| 1510 | Cart Creek Dam | Various | | 2,440.61 | 2,440.61 | 200.00 |
| 1511 | Grand Forks Drain #38 | Grand Forks | | 126.24 | 126.24 | |
| 1512 | Steele County W. M. D. | Steele | 56.10 | 109.21 | 165.31 | |
| 1513 | West. Missouri R. Direct Tribs. | Various | 61.00 | | 61.00 | |
| 1514 | Cottonwood Lake | Williams | 417.84 | | 417.84 | 200.00 |

| Project No. | Name | County | FY'69 | FY'70 | Total | Collections |
|---|---|---|---|---|---|---|
| 1515 | Cottonwood Creek | LaMoure | $ 1,170.03 | $17,961.16 | $19,131.19 | $ 200.00 |
| 1516 | Flood Forecasting - General | Various | | 334.41 | 334.41 | |
| 1517 | Beulah Flood Control | Mercer | | 632.32 | 632.32 | |
| 1518 | Wahpeton Ground-Water Survey | Richland | | 36,936.16 | 36,936.16 | |
| 1520 | Walsh County Drain #30 | Walsh | | 196.09 | 196.09 | |
| 1521 | Dunn County W. M. D. | Dunn | | 110.00 | 110.00 | |
| 1522 | Cass-Clay Dam | Cass | | 4,001.65 | 4,001.65 | |
| 1523 | Ward County Flood Control | Ward | | 3,718.98 | 3,718.98 | 200.00 |
| 1524 | Crosby Dam | Divide | | 942.92 | 942.92 | |
| 1527 | Oliver County Dam | Oliver | | 209.96 | 209.96 | |
| 1528 | Cass County Drain #50 | Cass | | 32.34 | 32.34 | |
| 1530 | Cella Dam | Traill | | 56.34 | 56.34 | |
| 1531 | Benson County Drain #1 | Benson | | 75.15 | 75.15 | |
| | | TOTALS | $1,302,663.34 | $1,329,154.35 | $2,631,817.69 | $575,202.86 |

# WATER PERMITS

For Period July 1, 1968 to June 30, 1970

| | | |
|---|---|---|
| APPLICATIONS FILED | | 157 |
| Irrigation | | 102 |
| Acre-Feet Requested | 27,702.4 | |
| Acres Requested | 17,471.6 | |
| Municipal | | 10 |
| Acre-Feet Requested | 3,427.4 | |
| Industrial | | 7 |
| Acre-Feet Requested | 2,517.5 | |
| Recreation | | 7 |
| Acre-Feet Requested - Storage | 4,514.0 | |
| Acre-Feet Requested - Annual Use | 963.7 | |
| Stockwater, Fish and Wildlife | | 26 |
| Acre-Feet Requested - Storage | 2,126.8 | |
| Acre-Feet Requested - Annual Use | 822.4 | |
| Flood Control | | 3 |
| Acre-Feet Requested - Storage | 5,147.0 | |
| Acre-Feet Requested - Annual Use | 372.0 | |
| Drainage Research | | 1 |
| Acre-Feet Requested | 480.0 | |
| Municipal and Recreation | | 1 |
| Acre-Feet Requested - Storage | 4,220.0 | |
| Acre-Feet Requested - Annual Use | 1,421.0 | |

WATER PERMIT APPLICATIONS
July 1, 1968 to June 30, 1970

| NO. | NAME AND ADDRESS | COUNTY | CLASS OF PERMIT | SOURCE | ACRE-FEET | ACRES | DATE OF CLAIM | STATUS |
|---|---|---|---|---|---|---|---|---|
| 1565 | Jorgensen, Clark - Williston | Williams | Recreation | Little Muddy River and Underground Sources, trib. to Garrison Reservoir | 18 | | 7- 3-68 | Approved |
| 1566 | Broderson, Einar - Watford City | McKenzie | Irrigation | Tobacco Garden Creek, trib. to Missouri River | 60.1 | 60.1 | 7- 8-68 | Approved |
| 1567 | Mattson, Merle E. - Tioga | Williams | Irrigation | Underground Sources | 240 | 156 | 7-15-68 | Approved |
| 1568 | Williams Company - Cleveland | Stutsman | Recreation | Unnamed Intermittent Stream, trib. to Non-Contributing Area and James River Basin | 34 storage<br>18 annual use | | 7-16-68 | Approved |
| 1569 | Holm, Alf H. - Epping | Williams | Recreation | Unnamed Draw, trib. to Long Creek & Garrison Reservoir | 48 storage<br>15 annual use | | 7-18-68 | Approved |
| 1570 | Rabe, William - Dickinson | Slope | Irrigation | Deep River, trib. to Little Missouri River | 84.2 | 84.2 | 7-23-68 | Approved |
| 1571 | Wolf, Albert - Mott | Hettinger | Irrigation | Unnamed Intermittent Draw, trib. to Cannonball River | 10.2 | 10.2 | 7-30-68 | Approved |
| 1572 | Galde, Osborne - Aneta | Nelson | Recreation | Unnamed Tributary, trib. to Sheyenne River | 70.4 storage<br>30.3 annual use | | 7-30-68 | Approved |
| 1573 | Jarvis, Jerry L. - Valley City | Barnes | Irrigation | Sheyenne River, trib. to Red River | 15 | 10 | 8- 2-68 | Approved |
| 1574 | Ferguson, Fred - White Earth | Williams | Irrigation | Underground Sources | 474 | 237 | 8- 5-68 | Approved |
| 1575 | Haggard, Clarence - Bismarck | Emmons | Irrigation | Badger Creek and Oahe Backup Water, trib. to Missouri River | 168 | 84 | 8- 7-68 | Approved |
| 1576 | Hufnagel, Harry - Tappen | Kidder | Irrigation | Underground Sources | 918 | 612 | 8-14-70 | Approved |

| NO. | NAME AND ADDRESS | COUNTY | CLASS OF PERMIT | SOURCE | ACRE-FEET | ACRES | DATE OF CLAIM | STATUS |
|---|---|---|---|---|---|---|---|---|
| 1577 | Heinrich, George - Adrian | LaMoure | Recreation | Unnamed Stream, trib. to James River | 283.6 storage<br>67.5 annual use | | 8-14-68 | Approved |
| 1578 | Fargo Park Board - Fargo | Cass | Recreation | Underground Sources | 85 | | 8-14-70 | Approved |
| 1579 | Tweden, Orian - Watford City | McKenzie | Recreation | Unnamed Intermittent Draw, trib. to Garrison Reservoir | 25.8 storage<br>13.5 annual use | | 8- 7-68 | Approved |
| 1580 | Thompson, Norman - Hurdsfield | Wells | Recreation | Unnamed Stream, trib. to Non-Contributing Area of the James River | 44 storage<br>21 annual use | | 8-20-68 | Approved |
| 1581 | Elletson, Perry E., Jr. - Cartwright | McKenzie | Irrigation | Charbonneau Creek, trib. to Yellowstone River | 53.4 | 26.7 | 8-21-68 | Approved |
| 1582 | Anderson, Iver - Grand Forks | Grand Forks | Recreation | Salt Water Coulee, trib. to Turtle River | 40.3 storage<br>43.2 annual use | | 8-21-68 | Approved |
| 1583 | Sveen, Woodrow N. - White Earth | Williams | Irrigation | Underground Sources | 300 | 156 | 8-23-68 | Approved |
| 1584 | Glimm, Franklin - Zahl | Williams | Irrigation | Underground Sources | 309 | 206 | 8-23-68 | Approved |
| 1585 | Kordonowy, Joe - Belfield | Billings | Recreation | Unnamed Intermittent Draw, trib. to Green River | 60 storage<br>24.9 annual use | | 8-26-68 | Approved |
| 1586 | Dewitz, Gerald E. - Tappen | Kidder | Irrigation | Underground Sources | 680 | 453.4 | 8-29-68 | Approved |
| 1587 | Kienzie, Marvin - Woodworth | Stutsman | Irrigation | Underground Sources | 550 | 367 | 8-29-68 | Approved |
| 1588 | Hartsoch, Virgil - Ray | Williams | Irrigation | Underground Sources | 160 | 161 | 9- 4-68 | Approved |
| 1589 | Hartsoch, Verland - Ray | Williams | Irrigation | Beaver Creek, trib. to Garrison Reservoir | 84 | 84 | 9- 4-68 | Approved |
| 1590 | Schulz, Leno - Woodworth | Stutsman | Irrigation | Underground Sources | 207 | 138 | 9- 4-68 | Approved |
| 1591 | Weyrauch, Wallace W. - Ray | Williams | Irrigation | Underground Sources | 450 | 451 | 9- 4-68 | Approved |

| NO. | NAME AND ADDRESS | COUNTY | CLASS OF PERMIT | SOURCE | ACRE-FEET | ACRES | DATE OF CLAIM | STATUS |
|---|---|---|---|---|---|---|---|---|
| 1592 | Town & County Club - Devils Lake | Ramsey | Irrigation | Underground Sources | 100 | 100 | 8-30-68 | Approved |
| 1593 | Yourk, Walter - Fairfield | Billings | Recreation | Unnamed Intermittent Draw, trib. to Little Missouri River | 38.5 storage<br>11.1 annual use | | 9- 6-68 | Approved |
| 1594 | Dewitz, Edwin - Tappen | Kidder | Irrigation | Underground Sources | 1975.8 | 1317.2 | 9- 9-68 | Approved |
| 1595 | Olson, Willard - Tioga | Williams | Recreation | Unnamed Coulee, trib. to Beaver Creek and Garrison Reservoir | 270 storage<br>81 annual use | | 9-10-68 | Approved |
| 1596 | Columbus, City of - Columbus | Burke | Municipal | Underground Sources | 250 | | 9-11-68 | Approved |
| 1597 | Mary College - Bismarck | Burleigh | Irrigation | Apple Creek, backwater from Missouri River and Oahe Reservoir | 30.6 | 15.3 | 9-12-68 | Approved |
| 1598 | S & S Construction - Moorhead, Minnesota | Cass | Industrial | Sheyenne River, trib. to Red River of the North | 10 | | 9-13-68 | Approved |
| 1599 | Tishmack, Pete B. - Shields | Grant | Irrigation | Unnamed Creek, trib. to Cannonball River | 173 | 173 | 9-24-68 | Approved |
| 1600 | Leavitt, Harold - Mohall | Renville | Recreation | Unnamed Stream, trib. to Souris River | 16.4 storage<br>5.8 annual use | | 9-26-68 | Approved |
| 1601 | Fandrick, Jessie - Bowman | Bowman | Irrigation | Unnamed Intermittent Creeks, trib. to North Fork of the Grand River | 65.1 | 65.1 | 8- 6-68 | Approved |
| 1602 | Wing, City of - Wing | Burleigh | Municipal | Underground Sources | 160 | | 9-30-68 | Approved |
| 1603 | Stein, Ray E. - Taylor | Dunn | Irrigation | Knife River, trib. to Missouri River | 132 | 132 | 10-15-68 | Approved |
| 1604 | Orr, Floyd W. - Ypsilanti | Stutsman | Irrigation | Slough and Underground Sources | 100 | 85.2 | 10-17-68 | Approved |
| 1605 | Viall, Roy - Ray | Williams | Irrigation | Underground Sources | 260 | 181.3 | 10-18-68 | Approved |

| NO. | NAME AND ADDRESS | COUNTY | CLASS OF PERMIT | SOURCE | ACRE-FEET | ACRES | DATE OF CLAIM | STATUS |
|---|---|---|---|---|---|---|---|---|
| 1606 | Bonogofsky, Joe - Freda | Grant | Irrigation | Unnamed Creek, trib. to Dogtooth Creek and the Cannonball River | 88 | 88 | 10-22-68 | Approved |
| 1607 | Rott Brothers - Nortonville | Kidder | Irrigation | Underground Sources | 1404 | 936 | 10-22-68 | Approved |
| 1608 | Cavalier Country Club - Cavalier | Pembina | Irrigation | Tongue River (Renwick Dam M4), Tongue River Watershed Dam #4, trib. to Red River | 60 | 30 | 10-24-68 | Approved |
| 1609 | Cavalier County Water Management District (Mt. Carmel Dam) - Langdon | Cavalier | Municipal - Recreation | Little Pembina River, trib. to Pembina River & Red River of the North & possible diversion of water from Mulberry Creek | 4220 storage<br>1421 annual use | | 10-29-68 | Approved |
| 1610 | Luidahl, Robert D. - Midwest City, Okla. | Benson | Irrigation | Sheyenne River and Unnamed Streams, trib. to Red River | 166.5 | 133.2 | 11- 6-68 | Approved |
| 1611 | Hakanson, Donald - Maddock | Benson | Irrigation | Sheyenne River and Unnamed Stream, trib. to Red River | 124 | 99.1 | 11- 6-68 | Approved |
| 1612 | Hufnagel, Walter - Tappen | Kidder | Irrigation | Underground Sources | 1179 | 786 | 11-14-68 | Approved |
| 1613 | Walhalla, City of - Walhalla | Pembina | Municipal | Underground Sources | 161 | | 11-15-68 | Approved |
| 1614 | Dvorak, David D. - Manning | Dunn | Irrigation | Crooked Creek, trib. to Knife River | 50 | 50 | 11-20-68 | Approved |
| 1615 | Sheyenne, City of - Sheyenne | Eddy | Municipal | Underground Sources | 100 | | 12- 5-68 | Approved |
| 1616 | Eddy County Park Board - New Rockford | Eddy | Recreation | James River | 200 storage<br>110.2 annual use | | 12-12-68 | Approved |
| 1617 | U. S. Forest Service - Billings, Montana | Stark | Municipal | Underground Sources | 12.2 | | 12-19-68 | Approved |
| 1618 | Zacharias, Vincent E. and Sons - Kathryn | Ransom | Irrigation | Underground Sources | 199.4 | 159.5 | 12-12-68 | Approved |
| 1619 | North Dakota Game and Fish Department (Fish Creek Dam) - Bismarck | Morton | Recreation | Fish Creek, trib. to Heart River | 1050 storage<br>201 annual use | | 1- 7-69 | Approved |

| NO. | NAME AND ADDRESS | COUNTY | CLASS OF PERMIT | SOURCE | ACRE-FEET | ACRES | DATE OF CLAIM | STATUS |
|---|---|---|---|---|---|---|---|---|
| 1620 | Harvey Golf Club - Harvey | Wells | Irrigation | Sheyenne River, trib. to Red River | 128 | 64.5 | 1-17-69 | Approved |
| 1621 | Hettinger County Water Management District - Mott | Hettinger | Flood Control | Unnamed Tributary, trib. to Cannonball River | 1662 storage<br>105 annual use | | 1-27-69 | Approved |
| 1622 | Brew, Dale - Manning | Dunn | Irrigation | Knife River, trib. to Missouri River | 54 | 54 | 2- 5-69 | Approved |
| 1623 | Johnson, Karnes - Sentinel Butte | Slope | Irrigation | Unnamed Intermittent Creeks, trib. to Little Missouri River | 70 | 69.3 | 2-26-69 | Approved |
| 1624 | Grand Forks County Water Management District - Grand Forks | Grand Forks | Recreation | English Coulee, trib. to Red River of the North | 210 storage<br>77.5 annual use | | 3-10-69 | Approved |
| 1625 | Zunick, Vernon O. - White Earth | Mountrail | Irrigation | White Earth River, trib. to Missouri River | 26 | 25.6 | 3-17-69 | Approved |
| 1626 | Price, Raymond - Hensler | Oliver | Irrigation | Missouri River | 520 | 260.8 | 3-17-69 | Approved |
| 1627 | Kemmet, Alton - Tappen | Kidder | Irrigation | Underground Sources | 234 | 156 | 3-31-69 | Approved |
| 1628 | Kemmet, Jacob - Tappen | Kidder | Irrigation | Underground Sources | 456 | 304 | 3-31-69 | Approved |
| 1629 | Wagner, Carl - Arena | Burleigh | Irrigation | Unnamed Stream, non-contributing area of the Missouri River | 11.9 | 11.9 | 4- 7-69 | Approved |
| 1630 | Candee, Harvey B. - Gladstone | Stark | Recreation | Unnamed Intermittent Draw, trib. to Heart River | 25 storage<br>12 annual use | | 4- 2-69 | Approved |
| 1631 | Bibler, Charlie A. - Williston | Williams | Irrigation | Unnamed Creeks and Draws, trib. to Stony Creek and Garrison Reservoir | 46.5 | 46.5 | 4-11-69 | Approved |
| 1632 | Porsborg Water Works - Mandan | Morton | Industrial | Underground Sources | 64.5 | | 4-30-69 | Approved |
| 1633 | Kary, Roy, Jr. - Killdeer | Dunn | Irrigation | Little Knife River, trib. to Knife River | 18 | 18 | 5- 1-69 | Approved |
| 1634 | Winter, Keith D. - Cartwright | McKenzie | Irrigation | Horse Creek, trib. to Yellowstone River | 56.8 | 56.8 | 5- 5-69 | Approved |

| NO. | NAME AND ADDRESS | COUNTY | CLASS OF PERMIT | SOURCE | ACRE-FEET | ACRES | DATE OF CLAIM | STATUS |
|---|---|---|---|---|---|---|---|---|
| 1635 | Helfrich Brothers - Glen Ullin | Grant | Irrigation | Small Stream, trib. to the Heart River | 26 | 26 | 5-15-69 | Approved |
| 1636 | Kersten, Carl - Newburg | Bottineau | Recreation | Runoff, trib. to the Souris River | 448.8 storage<br>120 annual use | | 5- 7-69 | Approved |
| 1637 | Griggs, John P. - Medora | Billings | Irrigation | Unnamed Intermittent draws, and Little Missouri River, trib. to Missouri River | 169.4 | 169.4 | 5-14-69 | Approved |
| 1638 | Streich, Orrin & Luella - Englevale | Ransom | Irrigation | Underground Sources | 900 | 720 | 5-23-69 | Approved |
| 1639 | Walsh County Water Management District - Grafton | Cavalier | Flood Control | Middle Branch Park River, trib. to Park River | 1948 storage<br>216 annual use | | 5-29-69 | Approved |
| 1640 | Turtle Lake, City of - Turtle Lake | McLean | Municipal | Underground Sources | 140 | | 5- 9-69 | Approved |
| 1641 | Rojic Brothers - Sentinel Butte | Golden Valley | Irrigation | Unnamed Branch of Andrews Creek, trib. to Little Missouri River | 45.2 | 45.2 | 3-17-69 | Approved |
| 1642 | Brown, Grant - Dunn Center | Dunn | Irrigation | Unnamed Drainage, trib. to Spring Creek and Knife River | 130 | 65 | 6-17-69 | Approved |
| 1643 | Roemmich, Jacob - Mott | Hettinger | Recreation | Unnamed Intermittent Stream, trib. to Cannonball River | 100 storage<br>50 annual use | | 6-23-69 | Approved |
| 1644 | Davis, Leonard - Killdeer | Dunn | Irrigation | Unnamed Intermittent Draw, trib. to Spring Creek and the Knife River | 46.4 | 46.4 | 6-30-69 | Approved |
| 1645 | Pan American Petroleum Corporation - Glendive, Montana | Burke | Industrial | Underground Sources | 424 | | 7- 2-69 | Approved |
| 1646 | U. S. Forest Service - Billings, Montana | Slope | Recreation | Second Creek, trib. to Little Missouri River | 311 storage<br>95 annual use | | 7- 9-69 | Approved |
| 1647 | Schuler, Ben - Streeter | Logan | Irrigation | Underground Sources | 480 | 320 | 7- 7-69 | Pending |
| 1648 | Lowe, Donald - Rhame | Bowman | Recreation | Unnamed Stream, trib. to Little Missouri River | 38 storage<br>21 annual use | | 7-24-69 | Approved |
| 1649 | H-T Ranch - Dickinson | Slope | Irrigation | Deep Creek, trib. to Little Missouri River | 22 | 10.6 | 7-22-69 | Pending |

| NO. | NAME AND ADDRESS | COUNTY | CLASS OF PERMIT | SOURCE | ACRE-FEET | ACRES | DATE OF CLAIM | STATUS |
|---|---|---|---|---|---|---|---|---|
| 1650 | Larson, John M. - Lemmon, South Dakota | Adams | Irrigation | Intermittent Stream, trib. to Cedar Creek and Cannonball River | 54.4 | 54.4 | 8- 4-69 | Approved |
| 1651 | Ward, Logan - Bismarck | Burleigh | Irrigation | Burnt Creek, trib. to Missouri River | 33.2 | 33.2 | 8- 6-69 | Pending |
| 1652 | Stroh, William - Manning | Dunn | Irrigation | Crooked Creek, trib. to Knife River | 36.2 | 36.2 | 8- 6-69 | Approved |
| 1653 | McClusky, City of - McClusky | Sheridan | Municipal | Underground Sources | 400 | | 8- 7-69 | Approved |
| 1654 | Hove, Haakon M. - Ray | Williams | Irrigation | Underground Sources | 21 | 21 | 8-12-69 | Approved |
| 1655 | Forthun, Oren - Alexander | McKenzie | Irrigation | Unnamed Intermittent Draw, trib. to Timber Creek and Missouri River | 130.5 | 130.5 | 8-12-69 | Approved |
| 1656 | Uhlman, Dr. Eugene B. - Williston | Williams | Irrigation | Missouri River | 120 | 63 | 8-20-69 | Approved |
| 1657 | Jensen, LeRoy - Powers Lake | Burke | Recreation | Intermittent Streams, trib. to Missouri River | 28.3 storage<br>17.3 annual use | | 9-12-69 | Pending |
| 1658 | Arithson, Ed - Bowman | Bowman | Irrigation | Unnamed Intermittent Draws, trib. to Grand River | 88.2 | 88.2 | 4-21-69 | Approved |
| 1659 | Zap, City of - Zap | Mercer | Municipal | Underground Sources | 540 | | 9-11-69 | Approved |
| 1660 | Walsh County Water Management District - Grafton | Cavalier-Pembina | Flood Control | Middle Branch Park River, trib. to Park River and Red River | 1537 storage<br>51 annual use | | 9-19-69 | Approved |
| 1661 | Basin Electric Power Cooperative - Bismarck | Mercer | Industrial | Underground Sources | 300 | | 9-22-69 | Approved |
| 1662 | Maher, James A. and Daniel E. - Morristown, So. Dak. | Sioux | Irrigation | Unnamed Coulee, trib. to Hay Creek, Cedar River and Cannonball River | 20.8 | 41.6 | 9-22-69 | Approved |
| 1663 | Dietrich, Clem - Bismarck | Burleigh | Recreation | Unnamed Channel, trib. to unnamed slough and Missouri River | 32.5 storage<br>10 annual use | | 9-22-69 | Approved |
| 1664 | Hirsch, Roger - Mott | Hettinger | Irrigation | Thirty-Mile Creek, trib. to Cannonball River | 61.4 | 61.4 | 10- 1-69 | Deferred |

| NO. | NAME AND ADDRESS | COUNTY | CLASS OF PERMIT | SOURCE | ACRE-FEET | ACRES | DATE OF CLAIM | STATUS |
|---|---|---|---|---|---|---|---|---|
| 1665 | Agricultural Research Service - Mandan | Dickey | Drainage Research | Underground Sources | 480 | | 10- 6-69 | Approved |
| 1666 | Stroh, William - Manning | Dunn | Recreation | Unnamed Intermittent Draw, trib. to Knife River | 34.2 storage 15 annual use | | 10- 7-69 | Approved |
| 1667 | Pleines, Joseph - Woodworth | Stutsman | Irrigation | Underground Sources | 240 | 160 | 10- 8-69 | Approved |
| 1668 | Bosserman, Floyd - Golva | Golden Valley | Irrigation | Bullion Creek, trib. to Little Missouri River | 1470 | 980 | 9-10-69 | Approved |
| 1669 | Thompson, Albert and Margaret - Oberon | Benson | Irrigation | Underground Sources | 590 | 377.4 | 9-12-69 | Pending |
| 1670 | North Dakota Agricultural Experiment Station - Fargo | Dickey | Irrigation | Underground Sources | 24 | 12 | 10-24-69 | Approved |
| 1671 | Abelman, Marvin - Alexander | McKenzie | Irrigation | Timber Creek, trib. to Garrison Reservoir | 312 | 156.4 | 10-17-69 | Pending |
| 1672 | Turbiville, Harry J. - Marmarth | Bowman | Irrigation | Little Missouri River, trib. to Missouri River | 64.4 | 64.4 | 10-20-69 | Approved |
| 1673 | Lehr, C. C. - Gackle | LaMoure | Recreation | Unnamed Stream, trib. to Bone Hill Creek and James River | 104 storage 41 annual use | | 12- 2-69 | Approved |
| 1674 | Stevenson, J. C. - Carson | Grant | Irrigation | Unnamed Creek, trib. to Louse Creek and Cannonball River | 39.8 | 39.8 | 12- 9-69 | Approved |
| 1675 | Finneman, Clarence - Golva | Golden Valley | Irrigation | Unnamed Draw, trib. to Bullion Creek and Little Missouri River | 150.2 | 150.2 | 12-22-69 | Pending |
| 1676 | McLeish, Thurman and Steve - Braddock | Emmons | Irrigation | Long Lake Creek, trib. to Long Lake | 142.8 | 142.8 | 1- 2-70 | Approved |
| 1677 | Schnell, Robert - Lemmon, So. Dak. | Adams | Irrigation | Unnamed Stream, trib. to Cedar River and Cannonball River | 142.4 | 142.4 | 12- 3-69 | Approved |

| NO. | NAME AND ADDRESS | COUNTY | CLASS OF PERMIT | SOURCE | ACRE-FEET | ACRES | DATE OF CLAIM | STATUS |
|---|---|---|---|---|---|---|---|---|
| 1678 | Trenton Water Users Cooperative - Trenton | Williams | Municipal | Underground Sources | 162 | | 1-27-70 | Approved |
| 1679 | ABM Aquifer Site - Omaha, Nebraska | Walsh | Industrial | Underground Sources | 1613 | | 1-15-70 | Approved |
| 1680 | Paulson, Ingvold O. - Taylor | Dunn | Irrigation | Knife River, trib. to Missouri River | 95 | 95 | 2- 6-70 | Approved |
| 1681 | Moe, Donald - Crosby | Divide | Irrigation | Unnamed Channel, trib. to Unnamed Sloughs | 10 | 6.7 | 2-26-70 | Pending |
| 1682 | Kiker, Russell L., Jr. - Sentinel Butte | Slope | Irrigation | Williams Creek, trib. to Little Missouri River | 180.9 | 180.9 | 2-19-70 | Approved |
| 1683 | Evanson, Orvis P. - Arnegard | McKenzie | Irrigation | Unnamed Intermittent Draw, trib. to Cherry Creek and Little Missouri River | 96.2 | 96.2 | 2-16-70 | Approved |
| 1684 | Beitelspacher, Neil - Linton | Emmons | Irrigation | Unnamed Tributary, trib. to Sand and Beaver Creeks and Missouri River | 10 | 10 | 2-18-70 | Approved |
| 1685 | North Dakota State Game and Fish Department (Blacktail Dam) - Bismarck | Williams | Recreation | Blacktail Creek, trib. to Little Muddy and Missouri River | 2640 storage<br>480 annual use | | 2-10-70 | Pending |
| 1686 | Rippley, Bill - Bismarck | Burleigh | Industrial | Underground Sources | 56 | | 3- 2-70 | Approved |
| 1687 | Tormaschy, Ralph M. - Dickinson | Dunn | Irrigation | Crooked Creek, trib. to Knife River and Missouri River | 32 | 32 | 3- 4-70 | Approved |
| 1688 | Wurtz, Richard - Plaza | Mountrail | Irrigation | Garrison Reservoir, trib. to Missouri River | 131 | 65.5 | 3- 6-70 | Approved |
| 1689 | Hehn, Werner - Leith | Grant | Irrigation | Unnamed Creek, trib. to Cannonball River | 12 | 19 | 3- 9-70 | Approved |
| 1690 | Taylor, City of - Taylor | Stark | Municipal | Underground Sources | 73 | | 3-11-70 | Approved |
| 1691 | Hoff Brothers - Richardton | Stark | Recreation | Unnamed Intermittent Draw, trib. to the Knife River | 35 storage<br>17.7 annual use | | 3-11-70 | Approved |

| NO. | NAME AND ADDRESS | COUNTY | CLASS OF PERMIT | SOURCE | ACRE-FEET | ACRES | DATE OF CLAIM | STATUS |
|---|---|---|---|---|---|---|---|---|
| 1692 | Ellison, Edward and Larry - Thunder Hawk, So. Dak | Grant | Irrigation | Unnamed Creek, trib. to Cedar River and Cannonball River | 88.8 | 88.8 | 3-11-70 | Approved |
| 1693 | Igoe, James J. and Sons Construction, Inc. - Bismarck | Burleigh | Industrial | Underground Sources | 50 | | 3-31-70 | Approved |
| 1694 | Glas, Anton - Linton | Emmons | Irrigation | Missouri River | 1168 | 584 | 4- 1-70 | Approved |
| 1695 | Duppong, Nick - Glen Ullin | Morton | Recreation | Muddy Creek, trib. to Heart River | 32 storage<br>24 annual use | | 3-31-70 | Pending |
| 1696 | Bohnet, Robert - Bentley | Adams | Irrigation | Timber Creek, trib. to Cedar River and Cannonball River | 123.5 | 123.5 | 4- 2-70 | Approved |
| 1697 | Tjelde, Leif - Cartwright | McKenzie | Irrigation | Yellowstone River, trib. to Missouri River | 231.3 | 154.2 | 4- 7-70 | Approved |
| 1698 | Enzi, Kriss W. - Braddock | Emmons | Irrigation | West Branch Long Lake Creek, trib. to Long Lake | 76.9 | 76.9 | 4- 8-70 | Deferred |
| 1699 | Muggli, Victor - Glen Ullin | Morton | Recreation | Unnamed Stream, trib. to Big Muddy Creek | 46 storage<br>13.5 annual use | | 4- 8-70 | Approved |
| 1700 | Dillinger, Mike - Gladstone | Dunn | Irrigation | Unnamed Intermittent Draws, trib. to Knife River | 213 | 213 | 4-10-70 | Approved |
| 1701 | James Valley Lands, Inc. - LaMoure | Dickey | Irrigation | James River, trib. to Missouri River | 123 | 82 | 4-14-70 | Approved |
| 1702 | Meiklejohn, Harry - Dickey | LaMoure | Irrigation | James River, trib. to Missouri River | 250 | 224 | 12- 2-69 | Pending |
| 1703 | Hauck, Nick J. - Richardton | Dunn | Irrigation | Unnamed Intermittent Draw, trib. to Knife River | 154 | 77 | 4-20-70 | Pending |
| 1704 | Anderson, Arnold L. - Williston | Williams | Irrigation | Unnamed Coulee and Painted Woods Creek, trib. to Missouri River | 72.1 | 72.1 | 4-28-70 | Approved |
| 1705 | Hetzel, Glenn E. - Mott | Hettinger | Irrigation | Chilton Creek, trib. to Cannonball River | 63.9 | 63.9 | 4-27-70 | Approved |
| 1706 | Kiefer, Duane E. - Bismarck | Emmons | Irrigation | Oahe Reservoir, trib. to Missouri River | 353.4 | 235.6 | 4-27-70 | Approved |

| NO. | NAME AND ADDRESS | COUNTY | CLASS OF PERMIT | SOURCE | ACRE-FEET | ACRES | DATE OF CLAIM | STATUS |
|---|---|---|---|---|---|---|---|---|
| 1707 | Finneman, C. T. - Golva | Golden Valley | Irrigation | Bullion Creek & Unnamed Branch at Bullion Creek, trib. to Little Missouri River | 1084.3 | 1084.3 | 4-30-70 | Approved |
| 1708 | Sax, Thoral C. - Watford City | McKenzie | Irrigation | Unnamed Intermittent Draw, trib. to Tobacco Garden and Garrison Reservoir | 144 | 71.7 | 5- 1-70 | Pending |
| 1709 | Stuber, O. L. - Bowman | Slope | Irrigation | Unnamed Intermittent Draw, trib. to Deep Creek (Little Missouri River) | 75.4 | 75.4 | 4- 9-70 | Pending |
| 1710 | Oderman, Harold - Belfield | Billings | Irrigation | Frank's Creek, trib. to Little Missouri River | 218 | 109.2 | 5- 4-70 | Pending |
| 1711 | Hillius, David - Leith | Grant | Irrigation | Unnamed Intermittent Creek, trib. to Cannonball River | 25 | 26 | 5-14-70 | Pending |
| 1712 | Parrish, Lloyd - Watford City | McKenzie | Irrigation | Unnamed Creek, trib. to North Fork Little Missouri River | 60 | 35.4 | 5-15-70 | Pending |
| 1713 | Swenson, Kent R. - Belfield | Billings | Recreation | Unnamed Tributary, trib. to Bull Creek and South Branch Heart River | 63.7 storage<br>35.4 annual use | | 5-22-70 | Pending |
| 1714 | Anderson, J. E. - Trotters | McKenzie | Irrigation | Little Missouri River and Unnamed Intermittent Draw, trib. to Missouri River | 324 | 324.2 | 5-28-70 | Pending |
| 1715 | Bloomgren, Ernest - Bowman | Slope | Irrigation | Unnamed Draw, trib. to Deep Creek (Little Missouri River) | 14 | 10.5 | 6-16-70 | Pending |
| 1716 | Minow, James - Sidney, Montana | McKenzie | Irrigation | Unnamed Intermittent Draws, trib. to Bennie Piere Creek & Yellowstone River | 264 | 131.4 | 6- 8-70 | Pending |
| 1717 | Jesse Brothers - Bowdon | Kidder | Recreation | Non-contributing Area of the Missouri River Basin | 36.9 storage<br>13.5 annual use | | 6-22-70 | Pending |
| 1718 | St. John Chapter, Isaak Walton League - St. John | Rolette | Recreation | McGillis Creek, trib. to Pembina River and Red River of the North | 134 storage<br>84 annual use | | 6-22-70 | Pending |
| 1719 | Boeshans, William P. and Robert T. - Elgin | Grant | Irrigation | Unnamed Intermittent Draw, trib. to Cannonball River | 20 | 11 | 6-23-70 | Pending |

| NO. | NAME AND ADDRESS | COUNTY | CLASS OF PERMIT | SOURCE | ACRE-FEET | ACRES | DATE OF CLAIM | STATUS |
|---|---|---|---|---|---|---|---|---|
| 1720 | Faul, Leander - Harvey | Wells | Recreation | Unnamed Channel, trib. to James River | 37.8 storage<br>16.5 annual use | | 6-23-70 | Pending |
| 1721 | Gruber, Frank - Scranton | Bowman | Irrigation | Unnamed Draw, trib. to North Fork of the Grand River | 40 | 40 | 6-26-70 | Pending |

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