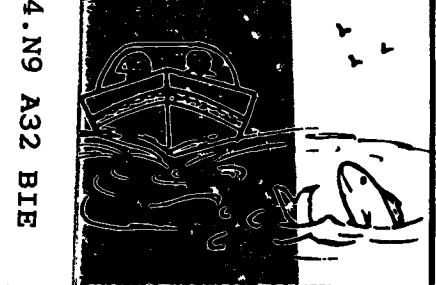
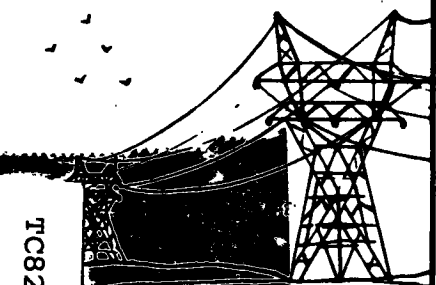
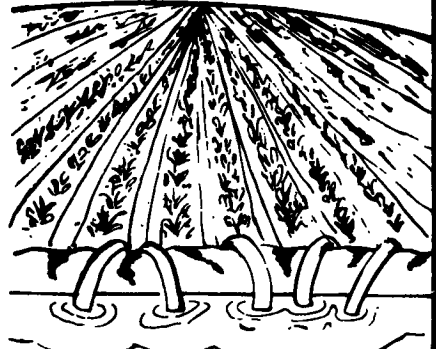
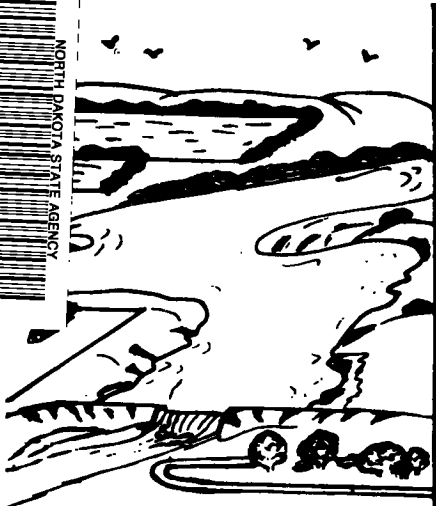


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Report of
NORTH DAKOTA STATE WATER COMMISSION
State Office Building
BISMARCK, NORTH DAKOTA
58501

EIGHTEENTH BIENNIAL REPORT

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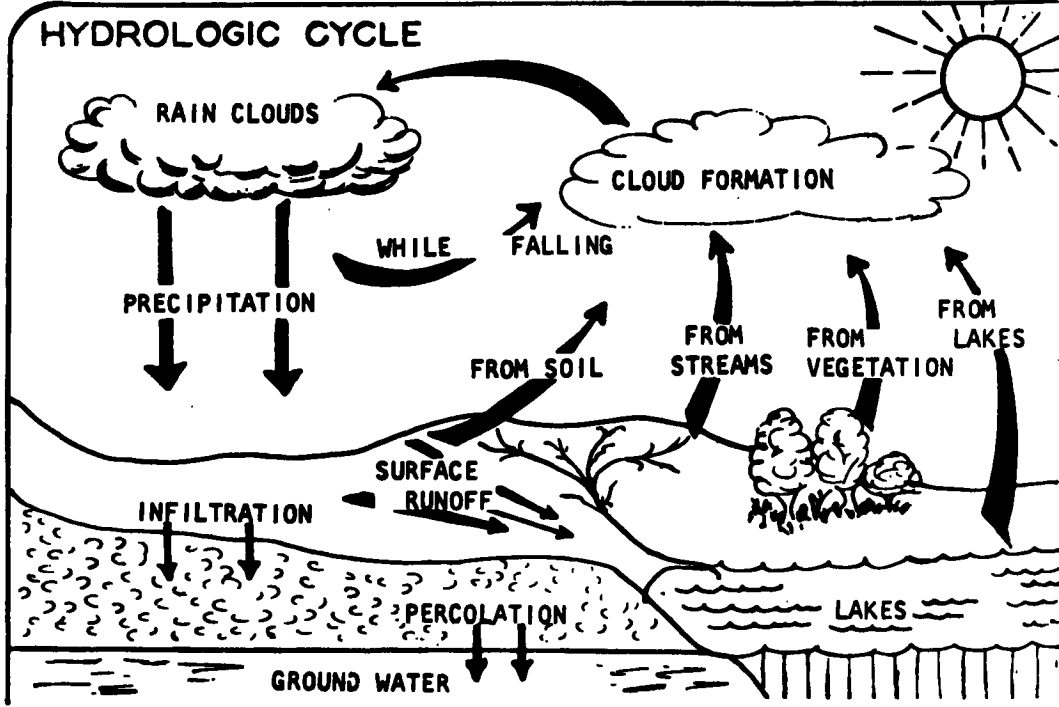
FOR THE PERIOD

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July 1, 1970 - June 30, 1972

Information Series #14

HYDROLOGIC CYCLE



NORTH DAKOTA STATE WATER COMMISSION

EIGHTEENTH BIENNIAL REPORT

FOR THE PERIOD

July 1, 1970 - June 30, 1972

Information Series #14

North Dakota State Water Commission

900 E. BOULEVARD

STATE OFFICE BUILDING

(701) 224-2750

BISMARCK, NORTH DAKOTA 58501

September 13, 1972

Honorable William L. Guy
Governor of North Dakota
State Capitol
Bismarck, North Dakota 58501

RE: 1970-1972 Biennial Report
SWC File C6-1

Dear Governor Guy:

In compliance with North Dakota laws, we transmit for your information and consideration the Eighteenth Biennial Report of the North Dakota State Water Commission and the Thirty-Fifth Biennial Report of the State Engineer for the period July 1, 1970 to June 30, 1972.

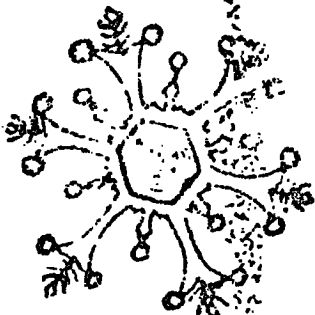
Respectfully submitted,



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



WATER CARE TO SUSTAIN NATURE AND SUPPLY MAN

GOVERNOR WILLIAM L. GUY
CHAIRMAN

HAROLD HANSON
NEW ENGLAND

ALVIN A. KRAMER
MINOT

ARNE DAHL, EX-OFFICIO MEMBER
COMM. OF AGRICULTURE

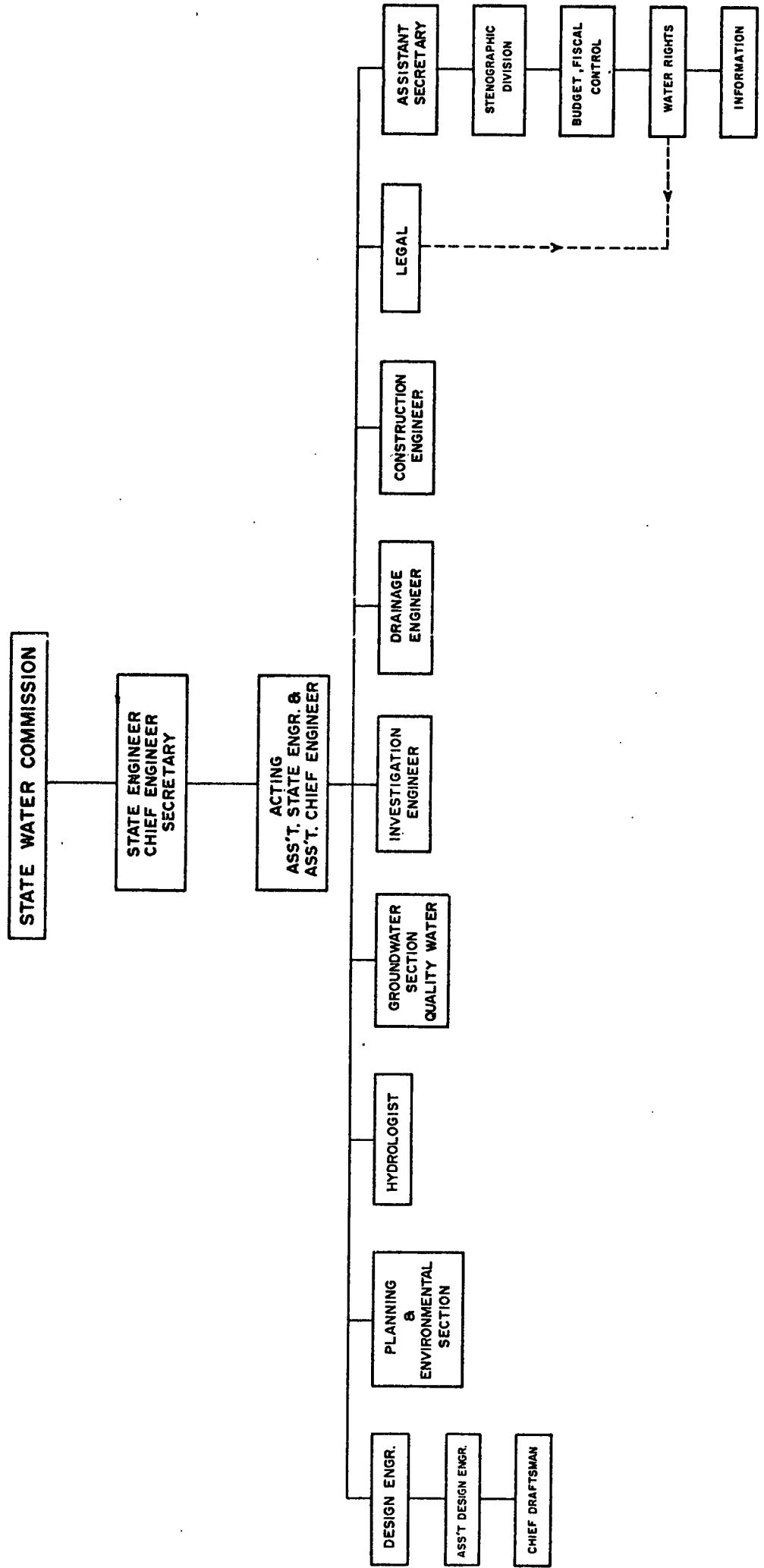
RICHARD P. GALLAGHER
VICE CHAIRMAN-MANDAN

JAMES JUNGROTH
JAMESTOWN

GORDON GRAY
VALLEY CITY

MILO W. HOISVEEN, SECRETARY
CHIEF ENGINEER & STATE ENGINEER

— ORGANIZATIONAL CHART —



COMMISSION MEMBERS AND STAFF AS OF JUNE 30, 1972

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
Harold Hanson	Member	July 1, 1965	July 1, 1978
James R. Jungroth	Member	September 1, 1967	July 1, 1975
Alvin A. Kramer	Member	April 8, 1970	July 1, 1973
Gordon Gray	Member	July 1, 1970	July 1, 1978
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	\$1,825.00
Gordon Baesler	Water Rights Technician	July, 1955	810.00
Allen Balliet	Rodman	May, 1966	535.00
Raymond Christensen	Engineer Technician	December, 1963	900.00
Antoinette Dally	Stenographer	January, 1970	400.00
Matt Emerson	Assistant Secretary	May, 1966	1,145.00
Larry Froelich	Geologist	June, 1962	965.00
Oscar Gehring	Lab Technician	January, 1970	625.00
Arland Grunseth	Investigations Engineer	September, 1965	1,090.00
William Hanson	Draftsman	April, 1970	525.00
Steve Hoetzer	Design Engineer	August, 1971	900.00
Hugh Jacobson	Assistant Driller	April, 1966	565.00
Clifford Jochim	Special Assistant Attorney General	May, 1963	1,285.00
Leroy Klapprodt	Draftsman	October, 1971	510.00
Thomas Kling	Soils Technician	September, 1971	460.00
James Knoll	Operator	April, 1969	590.00
Lewis Knutson	Driller	September, 1965	755.00
Kay Koch	Accountant	June, 1962	300.00
David Law	Engineer Technician	June, 1972	425.00
Milton Lindvig	Ground-Water Engineer	November, 1963	1,200.00
Sharon Locken	Chief Stenographer	October, 1967	615.00
LaDarana Mees	Field Engineer	October, 1970	840.00
Garvin Muri	Chemist	June, 1967	890.00
Charles Naplin	Geologist	June, 1967	915.00
Dean Neal	Lab Technician	September, 1971	352.00
C. P. Nelson	Drainage Engineer	December, 1959	1,140.00
Donald Ohnstad	Planning Engineer	November, 1968	1,060.00
Roy Putz	Office Assistant	September 1947	500.00
Eugene Sackman	Surveyor	March, 1957	750.00
Roger Schmid	Ground-Water Hydrologist	March, 1961	1,070.00
Delton Schulz	Office Engineer	July, 1961	1,400.00
Lloyd Scott	Chief Draftsman	February, 1968	745.00
Anton Senger	Construction Inspector	April, 1972	550.00
Myrna Siems	Stenographer	October, 1969	340.00
Glenn Speaks	Operator	November, 1966	610.00
Rosalie Svihla	Stenographer	March, 1970	355.00

Staff: (Continued)

Name	Position	Date Employed	Monthly Salary
Ronald Swanson	Project Engineer	July, 1970	\$1,050.00
Nelda Thomas	Information	April, 1971	830.00
Robert Thomas	Assistant Driller	June, 1972	500.00
Ann Tillotson	Research Assistant	April, 1965	475.00
Roger Ulrich	Rodman	January, 1968	490.00
Howard Walterson	Construction Superintendent	March, 1959	770.00
Cynthia Welch	Stenographer	September, 1970	325.00
Robert Werner	Draftsman	May, 1971	500.00

West River Diversion:

Gary C. Christenson	Planning Engineer	October, 1971	900.00
Pat Dauenhauer	Draftsman	July, 1971	500.00
Tom Duursma	Draftsman	May, 1972	550.00
Dale Frink	Planning Engineer	July, 1971	850.00
Dave Sprynczynatyk	Planning Engineer	June, 1972	750.00

COMMISSION MEETINGS

Date	Location
September 24, 1970	Bismarck
October 21, 1970	Grand Forks
December 10, 1970	Bismarck
February 26, 1971	Bismarck
April 16, 1971	Pembina
May 21, 1971	Bismarck
June 4, 1971	Elgin
June 14, 1971	Devils Lake
July 7, 1971	Carrington
September 1, 1971	Minot
October 15, 1971	West Fargo
December 2, 1971	Fargo
January 10, 1972	Bismarck
March 13, 1972	Bismarck
April 25, 1972	Bismarck
May 9, 1972	Bismarck
June 21, 1972	Devils Lake

NORTH DAKOTA STATE WATER COMMISSION
 FINANCIAL STATEMENT JUNE 30, 1972
 1971-73 APPROPRIATIONS

C5-1.2

ACCOUNT	Available Funds		Disbursements		Account Balances	
	APPROPRIATION	RECEIPTS	TO DATE	JUNE '72	UNEXPENDED	ENCUMB. UNENCUMB.
GENERAL OPERATIONS:						
1001-Salaries Expense (1)	\$ 919,621.00	\$ -	\$ 399,988.07	\$ 37,328.52	\$ 519,632.93	\$ - \$ 519,632.93
2001-Fees & Services	162,625.00	-	66,030.40	8,779.25	96,594.60	- 96,594.60
2051-Data Processing	4,500.00	-	2,025.98	69.97	2,474.02	- 2,474.02
3001-Supplies & Materials	163,600.00	-	74,920.27	9,959.98	88,679.73	- 88,679.73
4001-Equipment	25,000.00	-	11,449.12	117.00	13,550.88	- 13,550.88
7701-Red Basin Comm.	60,000.00	-	30,149.17	-	29,850.83	- 29,850.83
TOTAL GENERAL OPERATIONS	\$1,335,346.00	\$ -	\$ 584,563.01	\$ 56,254.72	\$ 750,782.99	\$ - \$ 750,782.99
7721-West River Diversion	\$ 100,000.00	\$ -	\$ 28,088.23	\$ 6,928.10	\$ 71,911.77	\$ - \$ 71,911.77
CONTRACT FUND:						
336-770-Contract "Cash"	\$1,000,000					
Contract Collections	900,000	\$400,305.06				
Collections to Date	\$1,900,000.00	200,000.00				
Transfer from 001 to 336						
TOTAL CONTRACT FUND	\$1,900,000.00	\$600,305.06	\$ 561,929.47	\$ 21,415.53	\$ 1,338,070.53	(2) \$1,338,070.53
GRAND TOTALS	\$3,335,346.00	\$600,305.06	\$1,174,580.70	\$ 84,598.35	\$ 2,160,765.29	\$ - \$ 2,160,765.29

(1) Includes \$88,550.00 Federal Grants

RECAP OF DISBURSEMENTS AND PROJECT COSTS
July 1, 1970 to June 30, 1972

DISBURSEMENTS TO BE ACCOUNTED FOR:

Disbursements from Appropriations and Refunds - 1969-72	\$1,446,098.00	
Disbursements from Appropriations and Refunds - 1971-73	1,146,492.48	
Depreciation -- Office and Field Equipment	<u>37,188.66</u>	
Total Disbursements to be accounted for		<u>\$2,629,779.14</u>

DISBURSEMENTS CHARGED TO STATE WATER COMMISSION PROJECTS	2,540,936.72
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DISBURSEMENTS CHARGED TO GENERAL OPERATING COSTS:

Personnel Services	69,817.37	
Field Equipment (new) (Book value - 141,194.95)	13,931.67	
Office Equipment (new) (Book value - 27,690.80)	4,460.15	
Shop Building (Book value - \$35,700.00)	- - -	
Materials and Supplies (Inventory - 27,236.22)	16,398.17	
Equipment Operation, Maintenance and Depreciation:		
Depreciation	37,188.66	
Operation & Maintenance	62,822.46	
Less Charged to Projects	<u>-98,775.48</u>	
Miscellaneous Expenses	<u>1,235.64</u>	
		<u>-17,000.58</u>

Total Disbursements Charged to General Operating Costs	88,842.42
Total Disbursements Accounted for	<u>\$2,629,779.14</u>

NORTH DAKOTA STATE WATER COMMISSION

Project Expenditures and Collections

July 1, 1970 to June 30, 1972

Project No.	Name	County	FY'71	FY'72	Total	Collections
216	Bowman-Haley Dam	Bowman	\$ 55,316.80	\$	\$ 55,316.80	
221	Burlington Dam 1 & 2	Ward	19,095.40	309.70	19,405.10	
222	Buford-Trenton I.D.	Williams	9,508.01	18,249.68	27,757.69	
227	Eaton Flood Irrigation Project	McHenry	407.33		407.33	
230	Burlington Irrigation Project	Ward	67.10		67.10	
232	Knife River F. C.	Mercer	18,599.78	4,056.42	22,656.20	
235	Goose River F. C.	Trail	7,597.33	14,547.45	22,144.78	
237	Missouri River Div.	Various	573.40	780.33	1,353.73	
248	Maple R. Channel Imp.	Cass		55.83	55.83	
259	Kulm-Edgeley Dam	LaMoire	52.80		52.80	
262	Cannonball & Cedar River	Various	24,927.31	7,989.50	32,916.81	
263	Dickinson Dam	Stark	145.53		145.53	
274	Neché Dam	Pembina	5,325.22	2,450.53	7,775.75	
292	Burnt Creek	Burlaigh	207.59	78.10	285.69	
298	Little Mo. Basin Proj.	Various		77.42	77.42	
299	Pembina City Dam	Pembina	277.85	2,101.14	2,378.99	
300	Baldhill Reservoir	Barnes	97.71		97.71	
305	Red River Basin	Various	45,259.30	48,559.27	93,818.57	
322	State Water Plan	Various	30,531.08	27,083.96	57,615.04	
327	White Earth Dam	Mountain	152,139.08	6,420.64	158,559.72	128,897.00
331	Upper Apple Cr.	Burlaigh	33.95	2.93	36.88	105,457.93
344	State Line Dam (Pollock)	Dickey	756.88	160.61	917.49	
346	Epping Dam	Williams	33.03		33.03	
347	Velva Flood Control	McHenry	892.52	141.90	1,034.42	
354	Jamestown Dam	Barnes		102.03	102.03	
359	Wolf Butte Dam	Adams	6,083.55		6,083.55	
362	Balta Dam	Pierce		166.10	166.10	
363	Iverson Dam	Benson	54.95	1,968.93	2,023.88	200.00
368	Hesper Dam (Stromberg)	Benson	31.90	1,938.80	1,970.70	200.00
371	Maddock Dam	Benson	111.11		111.11	
391	Silver Lake Dam	Sargent	59.40		59.40	
393	Memorial Park Dam	LaMoire		33.31	33.31	

Project No.	Name	County	FY'71	FY'72	Total	Collections
			\$	\$	\$	\$
394	Odlan Dam	Golden Valley	1,710.47	334.52	2,044.99	200.00
407	Raub Dam	McLean	22.00		22.00	
416	Devils Lake Basin	Various	6,718.72	8,189.85	14,908.57	
420	Mirror Lake Dam	Adams	306.35		306.35	
441	Temvik Dam	Emmons	49.39		49.39	
459	Brown Dam	Barnes	156.16		156.16	
461	Spiritwood Lake	Stutsman				
475	Golden Lake	Steele	1,623.12	206.25	1,829.37	200.00
476	Faust Dam	Barnes	676.03		676.03	34,535.00
479	Fish Creek	Morton		17,401.50	17,401.50	
480	James River Basin	Various	810.87		810.87	
484	Hoskins Lake Dam	McIntosh		82.06	82.06	
490	Noonan Park Dam	Divide	57.45		57.45	
499	Lake Ensign	Barnes	2,692.80		2,692.80	
501	Pheasant Lake	Dickey	57.48		57.48	
503	Lake Ibsen	Benson	741.95	718.63	1,460.58	
528	McGregor Dam	Williams	24,015.28		24,015.28	7,960.83
552	Lower Yellowstone I.D.	McKenzie	143.42	69.30	212.72	
557	Gascoyne Lake	Bowman	1,245.65	119.91	1,365.56	
559	Hurricane Lake	Pierce	375.12	1,533.63	1,908.75	
560	Blacktail Creek Dam	Williams		2,068.93	2,068.93	
561	Tioga Dam	Williams	87.73	58.58	146.31	
565	Buffalo Lake	Pierce	784.90	536.81	1,321.71	3,966.77
567	Pembilier Dam	Pembina	1,919.24	2,413.74	4,332.98	
568	Sheyenne R. Channel Clearing	Cass	5,643.24	1,490.48	7,133.72	
570	Galchutt Dam	Rich and	108.52		108.52	
576	Mo. R. Bank Stabilization	Various	3,844.21	2,079.39	5,923.60	
578	Apple Cr. Altimeter Survey	Various		45.38	45.38	
599	Sheyenne R. Div. Dam	Cass	17,727.67	221,862.14	239,589.81	
600	Crystal Municipal Water Supply	Pembina		49.09	49.09	
601	Bucephalia Dam	Foster		187.37	187.37	
612	Rosenquist Dam	Divide	1,188.90		1,188.90	
626	Tolley Flats Flood Control	Ward-Renville	3,441.61	1,889.33	5,330.94	
627	Froelich Dam	Sioux		871.62	871.62	
635	Walhalla Park Cutoff	Pembina	1,378.08	1,081.41	2,459.49	
637	Little Muddy R. Dam	Williams		120.18	120.18	
642	Sweetbriar Creek	Norton	1,865.93	1,590.78	3,456.71	
645	Fargo Dam #3 (Hickson)	Cass	36,541.18		36,541.18	25,325.89

Project No.	Name	County	FY'71	FY'72	Total	Collections
647	Green River Dam	Billings-Stark	\$ 12,075.23	\$ 78.10	\$ 12,153.33	\$
656	New Rockford RR Dam	Eddy	5,524.30		5,524.30	21,148.90
662	Park River Snagging & Clearing	Walsh	1,750.69		1,750.69	
667	Northgate Dam	Burke	3,471.74	1,152.44	4,624.18	7,500.00
668	Warsing Lake	Eddy	33.00		33.00	
671	Harvey Dam	Wells	125.40		125.40	
681	Drayton Dam	Pembina	444.27		444.27	
682	SWC Shop	Burleigh	1,589.95	38.50	1,628.45	
685	Glenburn Water Supply	Renville				
689	Hillsboro Water Supply	Trail	34.32	84.15	118.47	
690	Pipestem Reservoir	Stutsman		785.03	785.03	
704	Chain Lake WMD	Ramsey	44.00		44.00	
712	Nelson Co. WMD	Nelson	60.50		60.50	
713	Oak Cr. WMD	Bottineau		78.65	78.65	
717	Sargent Co. WMD	Sargent		160.80	160.80	
723	Towner Co. WMD	Towner	125.38		125.38	
728	Pollock Dam	Dickey				200.00
734	Beach GW Survey	Golden Valley		33.00	33.00	
739	Bowbell's GW Survey	Burke		33.00	33.00	
740	Bowman GW Survey	Bowman	126.50		126.50	
741	Buxton GW Survey	Trail	94.37		94.37	
742	Casselton GW Survey	Cass		69.55	69.55	
750	Ellendale GW Survey	Dickey	12,424.42	3,078.63	15,503.05	8,167.50
758	Glen Ullin GW Survey	Morton		28.05	28.05	
772	Leeds GW Survey	Benson	69.08	330.00	399.08	
773	Lehr GW Survey	Logan	123.75		123.75	
782	Minot Water Supply	Ward	2,769.92	826.23	3,596.15	
793	Portland GW Survey	Trail	84.81		84.81	
817	Burleigh Co. GW Survey	Burleigh	653.68	503.72	1,157.40	
818	Kidder Co. GW Survey	Kidder	7,352.35	1,789.47	9,141.82	
819	Stutsman Co. GW Survey	Stutsman	3,676.73	28.33	3,705.06	
820	Oak Willow Cr. Snagging & Clearing	Bottineau-McHenry	1,220.14	4,124.23	5,344.37	
826	Garrison Dam (CE)	Various	66.00	65.93	131.93	
831	Lake Darling (CE)	Renville-Ward		69.85	69.85	
841	Maple River WS	Various	66.00	142.45	208.45	
842	Starkweather WS	Various	998.03	305.25	1,303.28	
847	Swan Cr.-Buffalo Cr. WS	Various		33.30	33.30	
858	Foster-Eddy Co. GW Survey	Cass	560.18	1,104.81	1,664.99	
859	Williams Co. GW Survey	Williams	335.50	528.00	863.50	
860	McKenzie Co. GW Survey	McKenzie	72.33	66.00	138.33	

Project No.	Name	County	FY'71	FY'72	Total	Collections
861	Burke-Mountrail Co. GW Survey	Burke	\$ 1,969.34	\$ 746.63	\$ 2,715.97	\$
862	Divide Co. GW Survey	Divide		80.30	80.30	
863	Renville-Ward GW Survey	Renville-Ward	2,118.60		2,118.60	
865	Garrison Res. Negation Study	Various		49.50	49.50	
866	Cass Co. GW Survey	Cass	760.93	5,353.17	6,114.10	
867	Richland Co. GW Survey	Richland	53.90	100.76	154.66	
868	Trail Co. GW Survey	Trail	898.29	323.40	1,221.69	
869	Weather Modification	Various		49.78	49.78	
929	Forest River WS	Various	45.43		45.93	
935	Bench Marks	Various	2,146.10	1,394.26	3,540.36	
936	Field Notes	Various	985.60	1,909.46	2,895.06	
940	Adams-Bowman Co. GW Survey	Adams-Bowman	4,919.90	56,039.02	60,958.92	11,000.00
941	Benson-Pierce Co. GW Survey	Benson-Pierce	10,572.39	498.30	11,070.69	21,200.00
942	Billings Co. GW Survey	Billings	86.90	182.00	268.90	
944	Cavalier-Pembina Co. GW Survey	Pembina-Cavalier	29,151.00	19,514.21	48,665.21	18,600.00
946	Dunn Co. GW Survey	Dunn	101.09	11,499.21	11,600.30	
948	Emmons Co. GW Survey	Emmons	224.51	8,986.32	9,210.83	
950	Grand Forks Co. GW Survey	Grand Forks		33.00	33.00	
951	Grant-Sioux Co. GW Survey	Grant-Sioux		16,827.15	16,972.41	
952	Griggs Co. GW Survey	Griggs	145.26		345.46	
953	Hettinger-Stark Co. GW Survey	Hettinger-Stark	3,808.15	466.24	4,274.39	12,300.00
954	LaMoure Co. GW Survey	LaMoure	33.00	142.45	175.45	
955	Logan Co. GW Survey	Logan		52.25	52.25	
956	McHenry Co. GW Survey	McHenry	5,009.76	78.65	5,088.41	
957	McIntosh Co. GW Survey	McIntosh	33.00		33.00	
958	McLean Co. SP	McLean	55,161.22	1,545.01	56,706.23	10,500.00
959	Mercer-Oliver Co. GW Survey	Mercer-Oliver	1,030.43	451.11	1,481.54	
960	Morton Co. GW Survey	Morton	135.30	858.00	993.30	
962	Nelson-Walsh Co. GW Survey	Nelson-Walsh	4,599.09	396.77	4,995.86	11,500.00
966	Ramsey Co. GW Survey	Ramsey		198.00	198.00	
968	Rolette Co. GW Survey	Rolette	219.43		219.43	
970	Sheridan Co. GW Survey	Sheridan	2,677.39	284.02	2,961.41	
971	Sioux Co. GW Survey	Sioux	10.56		10.56	
972	Slope Co. GW Survey	Slope	194.10		194.10	5,500.00
974	Griggs-Steele Co. GW Survey	Griggs-Steele	25,165.68	43,116.50	68,282.18	11,000.00
975	Towner Co. GW Survey	Towner	111.82	125.40	237.22	
978	Wells Co. GW Survey	Wells	566.50	99.00	665.50	
980	Maple River (WS)	Dickey		28.11	28.11	
982	Park River WS & F.C.	Various	841.27	208.62	1,049.89	

Project

<u>Project No.</u>	<u>Name</u>	<u>County</u>	<u>FY'71</u>	<u>FY'72</u>	<u>Total</u>	<u>Collections</u>
984	Souris R. Basin Storage & Reg.	Various	\$ 6,752.19	\$ 307.21	\$ 7,059.40	\$
989	Quality of Water	State-Wide	7,044.40	9,901.32	16,945.72	
999	Road Drainage - General	Various		80.65	80.65	
1015	Foster Co. Road Drain	Foster	100.65		100.65	
1018	Grant Co. SP	Grant	31.90		31.90	
1029	Morton Co. Road Drain	Morton	184.78		184.78	
1033	Pembina Co. Road Drain	Pembina		15.71	15.71	
1038	Richland Co. Road Drain	Richland	412.52		412.52	
1048	Trail Co. Road Drain	Trail		33.42	33.42	
1053	Drainage - General	Various	3,737.82	4,527.17	8,264.99	
1054	Barnes Co. Dr. - General	Barnes	547.65		547.65	
1056	Bottineau Co. Dr. - General	Bottineau	33.00		33.00	
1061	Stone Creek Drain	Bottineau	33.55		33.55	
1063	Cass Co. Dr. - General	Cass	204.16	324.78	528.94	
1065	Cass Co. Dr. #3	Cass	33.55		33.55	
1077	Cass Co. Dr. #24	Cass	545.29		545.29	
1078	Cass Co. Dr. #25	Cass	3,484.59		3,484.59	
1083	Cass Co. Dr. #31	Cass		224.40	224.40	
1088	Cass Co. Dr. #37	Cass	8,138.28	399.85	399.85	
1089	Cass Co. Dr. #39	Cass	2,707.16		2,707.16	
1091	Cass Co. Dr. #41	Cass	230.37	145.20	375.57	
1098	Cavalier Co. Dr. - General	Cavalier	66.00		66.00	
1101	Dickey Co. Dr. - General	Dickey	114.02		114.02	
1104	Eddy Co. Dr. - General	Eddy	66.00	56.54	122.54	
1105	Grand Forks Co. Dr. - General	Grand Forks	103.40		103.40	
1110	Grand Forks Co. Dr. #11	Grand Forks	67.10	407.12	474.22	
1130	Mountrail Co. Dr. - General	Mountrail	320.85	69.30	390.15	
1131	Nelson Co. Dr. - General	Nelson	67.10	68.75	135.85	
1132	McHough Drain	Nelson	239.47		239.47	
1133	Pembina Co. Dr. - General	Pembina	67.10	5,630.45	5,630.45	
1139	Pembina Co. Dr. #10	Pembina		103.95	103.95	
1159	Pembina Co. Dr. #51	Pembina		514.47	514.47	
1169	Pembina Co. Dr. #62	Pembina		146.85	146.85	
1170	Pierce Co. Dr. - General	Pierce	150.15	291.05	297.00	
1171	Ramsey Co. Dr. - General	Ramsey	66.55		66.55	
1173	Renville Co. Dr. - General	Renville	223.14		223.14	
1174	Richland Co. Dr. - General	Richland	67.10	33.41	100.51	
1218	Rolette Co. Dr. - General	Rolette	48.95	574.75	623.70	
1219	Sargent Co. Dr. - General	Sargent		71.50	71.50	

<u>Project No.</u>	<u>Name</u>	<u>County</u>	<u>FY'71</u>	<u>FY'72</u>	<u>Total</u>	<u>Collections</u>
1223	Steele Co. Dr. - General	Steele	\$ 133.10	\$ 69.30	\$ 202.40	
1226	Trail Co. Dr. #4 & 14	Trail		69.30	69.30	
1230	Trail Co. Dr. #8	Trail		2,299.97	2,299.97	
1243	Trail Co. Dr. #26	Trail		372.55	372.55	
1252	Walsh Co. Dr. - General	Walsh	206.53		206.53	
1262	Ward Co. Dr. - General	Ward	187.72	457.17	644.89	
1264	Barnes Co. SP	Barnes	96.80		96.80	
1265	Benson Co. SP	Benson	34.38	31.90	66.28	
1267	Bottineau Co. SP	Bottineau			1,507.01	
1270	Burleigh Co. SP	Burleigh	92.40	169.46	261.86	
1271	Cass Co. SP	Cass	184.80	917.51	1,102.31	200.00
1273	Dickey Co. SP	Dickey	378.19		378.19	
1274	Divide Co. SP	Divide		78.10	78.10	
1277	Emmons Co. SP	Emmons		141.85	141.85	
1279	Cass Co. SP	Cass	121.00		121.00	
1281	Grant Co. SP	Grant	65.45		65.45	
1286	Logan Co. SP	Logan		673.18	673.18	
1290	McLean Co. SP	McLean	341.63	260.02	601.65	
1291	Mercer Co. SP	Mercer	235.40	69.30	304.70	
1292	Morton Co. SP	Morton	155.18		155.18	
1295	Oliver Co. SP	Oliver	107.80		107.80	
1297	Pierce Co. SP	Pierce		97.74	97.74	
1298	Ramsey Co. SP	Ramsey		33.41	33.41	
1305	Sioux Co. SP	Sioux	31.90	86.15	118.05	
1310	Towner Co. SP	Towner	970.23		970.23	
1312	Walsh Co. SP	Walsh	391.93		391.93	
1313	Ward Co. SP	Ward	145.20		145.20	
1314	Wells Co. SP	Wells	847.84		847.84	
1315	Williams Co. SP	Williams	63.80	30.11	93.91	
1316	Towner Co. Drainage	Towner	517.26	133.10	650.36	
1319	Grand Forks Co. WMD	Grand Forks		136.27	136.27	
1325	Sterling Dam	Burleigh		148.78	148.78	
1328	Cass Co. Dr. #23	Cass	67.10		67.10	
1330	Pembina Co. Dr. #5	Pembina	33.55	316.80	350.35	
1333	Sand Creek Dam	Williams		1,487.31	1,487.31	
1339	Bone Hill Creek Dam	LaMoure		63.99	63.99	
1342	Boundary Creek WS	Bottineau	5,114.33	11,928.41	17,042.74	
1344	Shenoyne River Flood Control	Various		161.70	161.70	
1345	Conklin Dam	McLean	165.83		165.83	

Project No.	Name	County	FY'71	FY'72	Total	Collections
1346	Mount Carmel Dam	Cavalier	\$281,237.02	\$ 28,713.80	\$ 309,950.82	\$193,578.62
1349	Colt Dam	Mercer	3,828.53		3,828.53	
1351	English Coulee	Grand Forks	438.46	98.89	537.35	
1357	Lansford WS	Ward		1,554.59	1,554.59	200.00
1358	Sheep Creek Dam	Grant	166,178.05	3,660.49	169,838.54	
1362	Rock Lake	Towner	95.70		95.70	
1368	St. Thomas-Lodema WS #111	Pembina		34.65	34.65	
1371	Midland-Drayton WS #IV	Pembina		2,843.64	2,843.64	
1373	Pipeline & Cable Crossings	Various		573.67	573.67	
1376	Outdoor Recreation - General	State-Wide	297.51	360.74	658.25	
1378	Clausen Springs Dam	Barnes	80.98	210.60	291.58	
1382	Camel Butte Dam	Golden Valley	2,756.82	197.48	2,954.30	
1388	W.M.D.	Various	627.17	491.17	1,118.34	
1389	Irrigation Districts - Statewide	Various		607.97	607.97	
1392	Missouri R. Reservoir Operations - Gen.	Gen. Various	277.88	534.19	812.07	
1393	Hydrologic Surveys - Gen.	Various	48,497.89	41,320.13	89,818.02	
1394	Topographic Mapping - Gen.	Various	51.70	110,127.60	110,179.30	
1395	Ground-water Surveys - Gen.	Various	80,283.07	52,977.66	133,260.73	
1396	Mo. Basin Comp. Planning	Various	742.19	1,643.48	2,385.67	
1397	Pollution Control - Gen.	Various	84.70	337.98	422.68	
1400	Water Permits - Gen	Various	8,302.23	14,157.58	22,459.81	9,000.00
1401	International Boundary Dr.	Pembina	598.85	8,288.92	8,887.77	200.00
1407	Stanley Dam	Mountrail		104.04	104.04	
1408	Minot Flood Control	Ward	318.37	4,341.34	4,659.71	
1417	Trail Co. Dr. #44	Trail		50.22	50.22	
1418	Big Coulee Dam	Towner	3,281.38	6,079.96	9,361.34	6,706.73
1430	Pilot Wells	Various		32.18	32.18	
1431	Emergency-Disaster Operations	Various	10,523.50	9,680.81	20,204.31	105,726.81
1435	Green Lake	McIntosh		846.38	846.38	
1444	Pembina City F.C.	Pembina	318.76		318.76	
1445	Grand Forks Dr. #33	Grand Forks	4,166.37		4,166.37	
1447	Bowesmont Flood Cont.	Pembina		264.00	264.00	
1448	Flood Plain Surveys - Gen.	Various	94.20	190.30	284.50	
1449	Wells Co. Dr. - General	Wells	215.49		215.49	
1454	Tolley Water Supply	Kenville		177.93	177.93	
1461	Pembina R. Channel Change	Pembina		40.15	40.15	
1464	Beulah Dam	Mercer		365.77	365.77	
1468	Rolette Co. WMD	Rolette		159.50	159.50	
1470	Makoti Water Supply	Ward		52.80	52.80	
1471	Erie Dam	Cass	158,549.05	6,768.06	165,317.11	129,784.60

Project No.	Name	County	FY'71	FY'72	Total	Collections
1476	Hillsboro Reservoir	Trail	\$ 8,538.95	\$ 7,776.67	\$ 16,315.62	\$ 1,000.00
1478	Nelson Dam	Oliver	81.19		81.19	
1480	Meandered Lakes ND - General	Various	67.10	79.75	146.85	
1481	State Office Building	Burlingame	374.14	408.53	782.67	
1483	Wells County Drain #1	Wells		34.65	34.65	
1486	Griggs County Drain - General	Griggs	85.66	34.65	34.65	
1489	N. Dak. Wetlands - General	Various	66.55	315.45	401.11	
1490	ND Resource Conservation & Dev. #1	Various	73.70		66.55	
1493	Brag Dam	Various	813.07	728.88	73.70	
1495	Lignite Res. Dev.	Various	108.35		1,541.95	
1496	Lake Elsie	Richland			108.35	
1498	Richland County Drain #68	Richland		122.14	122.14	
1499	Grand Forks County Drain #39	Grand Forks	59.16		59.16	
1503	Medora Dam	Billings	193.60	52.80	246.40	
1506	Heart River Basin	Various		49.50	49.50	
1507	Yellowstone River Basin	McKenzie		582.56	582.56	
1508	Wild Rice River Basin	Cass, Richland & Sargent	168.85	381.15	550.00	
1511	Grand Forks County Drain #38	Grand Forks		10,331.95	10,331.95	
1515	Cottonwood Creek	LaMoine	3,767.95	11,514.88	15,282.83	
1516	Flood Forecasting - General	Various		10.73	10.73	
1517	Hazen Flood Control	Mercur	256.63	97.23	353.86	200.00
1518	Wahpeton Ground Water Survey	Richland	3,969.60	1,700.49	5,670.09	699.45
1520	Walsh County Drain #30	Walsh	19,907.16		19,907.16	
1522	Fargo North Dam	Ward	1,476.20		1,476.20	
1523	Ward County Flood Control	Ward	7,919.63		7,919.63	
1525	Steele County Drain #1	Steele		380.50	380.50	
1526	Foster County Drain - General	Foster	173.27		173.27	
1528	Cass County Drain #50	Cass		6,371.93	6,371.93	
1529	Ransom County WMD	Ransom	7.04		7.04	
1530	Cella Dam S. Line	Trail	4,714.28	7,303.78	12,018.06	200.00
1531	Benson County Drain #1	Benson	33.00	8,609.30	8,642.30	
1532	Cando SW Drain	Towner	97.23		97.23	
1533	Moores Dam 31 and 36	Dickinson	2,282.44	1,421.75	3,704.19	200.00
1534	Michigan City Drain	Nelson	220.00	33.00	253.00	
1535	Saline Water Study - General	Various	14,051.35	27,766.04	41,817.39	
1536	Grand Forks Water Supply	Grand Forks	2,249.90	831.60	3,081.50	200.00
1537	Edinger Dam	Wells	8,351.35	2,896.50	11,247.85	
1538	Kidder County WMD	Kidder		82.50	82.50	
1539	Freemont Township Dam	Cavalier	625.71	8,616.44	9,242.15	200.00
1540	McHenry County Drain - General	McHenry	117.15		117.15	

Project No.	Name	County	FY'71	FY'72	Total	Collections
1541	McLean Co. WMD	McLean	\$	88.00	\$ 88.00	\$
1542	City of Lawton GW Survey	Ramsey	1,197.64	2,264.80	3,462.44	
1543	West River Diversion	Various	2,180.33	46,594.64	48,774.97	
1546	Grand Forks & Trail Water Dist. #1	Grand Forks & Trail		212.85	212.85	
1550	Trail Co. Water Dist.	Trail		1,200.95	1,200.95	
1551	Burleigh Co. WMD	Burleigh		192.50	192.50	
1552	Steele Co. Dr. #3	Steele	192.75		192.75	
1553	Grand Forks Co. Dr. #40	Grand Forks	67.10		67.10	
1554	McLean Co. Dr. - Gen.	McLean		70.40	70.40	
1555	Billings Co. WMD	Billings		307.73	307.73	
1556	Indian Creek Dam	Hettinger		17,434.35	17,434.35	200.00
1557	Lakota Drain	Nelson		138.60	138.60	
1558	Anderson-Stewart	Barnes		240.90	240.90	
1559	Halliday WS	Dunn		4,872.16	4,872.16	1,500.00
1560	Upper Big Coulee Detention Dam	Towner		1,251.19	1,251.19	200.00
1561	Public Works Impact Program	Various		1,974.74	1,974.74	
1562	McIntosh Co. WMD	McIntosh		12.10	12.10	
1563	Crosby GW Study	Divide		26,439.04	26,439.04	
1564	Lakewood Beach	Ramsey		680.45	680.45	
1565	Langdon Div. Drain	Cavalier		214.50	214.50	
1566	Rugby Flood Control	Pierce		421.69	421.69	
1567	Cass Co. Dr. #51	Cass		69.30	69.30	
1568	Sheyenne Delta Investigation	Various		4,183.40	4,183.40	
1569	Missouri River Basin Comm.	Various		10,828.00	10,828.00	
1573	Casselton Water Supply	Cass		934.10	934.10	
TOTALS			\$1,607,125.39	\$1,166,969.12	\$2,774,094.51	\$1,022,379.15

WATER PERMITS

For Period July 1, 1970 to June 30, 1972

APPLICATIONS FILED	- - - - -	135
APPLICATIONS APPROVED	- - - - -	112
APPLICATIONS PENDING	- - - - -	22
APPLICATIONS DENIED	- - - - -	1
Irrigation - Filed	- - - - -	86
Acre-Feet Requested	-----	32,183.2
Acres Requested	-----	19,538.9
Irrigation - Approved	- - - - -	74
Acre-Feet Approved	-----	25,569.1
Acres Approved	-----	18,288.8
Municipal - Filed	- - - - -	19
Acre-Feet Requested	-----	13,852.3
Municipal - Approved	- - - - -	13
Acre-Feet Approved	-----	9,889.0
Industrial - Filed	- - - - -	12
Acre-Feet Requested	-----	1,644.1
Industrial - Approved	- - - - -	10
Acre-Feet Approved	-----	1,487.0
Recreation - Filed	- - - - -	3
Acre-Feet Storage Requested	-----	8,862.0
Acre-Feet Annual Use Requested	-----	2,121.5
Recreation - Approved	- - - - -	2
Acre-Feet Storage Approved	-----	8,862.0
Acre-Feet Annual Use Approved	-----	1,651.5
Stockwater, Fish & Wildlife - Filed	- - - - -	9
Acre-Feet Storage Requested	-----	659.04
Acre-Feet Annual Use Requested	-----	317.13
Stockwater, Fish & Wildlife - Approved	- - - - -	8
Acre-Feet Storage Approved	-----	588.74
Acre-Feet Annual Use Approved	-----	281.94
Flood Control - Filed	- - - - -	6
Acre-Feet Storage Requested	-----	6,765.0
Acre-Feet Annual Use Requested	-----	297.1
Flood Control - Approved	- - - - -	5
Acre-Feet Storage Approved	-----	6,190.0
Acre-Feet Annual Use Approved	-----	275.8

WATER PERMITS
For Period July 1, 1970 to June 30, 1972

NO.	NAME AND ADDRESS	COUNTY	CLASS OF PERMIT	SOURCE	ACRE-FEET	ACRES	DATE OF CLAIM	STATUS
1722	Lund, Lawrence - New Town	Hountrail	Irrigation	Intermittent Waterway, trib. to Muskrat Lake	18.6	18.6	7-15-70	Approved
1723	Hoge, Dennis & James - Bismarck	Burleigh	Irrigation	Missouri River and Underground Water	768.0	384.1	7-20-70	Approved
1724	Olson, Oakley - Rhome	Bowman	Stockwater, Fish & Wildlife	Unnamed Intermittent Draw trib. to Little Missouri River	84.0 storage 42.3 annual use		7-14-70	Approved
1725	Gardner, City of - Gardner	Cass	Municipal	Underground Well	100.0		7-23-70	Approved
1726	Sabo, Henry - Gladstone	Stark	Irrigation	Unnamed Intermittent Draw, trib. to Green River & Heart River	13.0	13.0	7-24-70	Approved
1727	Dukart, Elmer - Gladstone	Stark	Stockwater, Fish & Wildlife	Unnamed Draw, trib. to Antelope Creek and Heart River	36.0 storage 15.9 annual use		7-27-70	Approved
1728	Fingal, City of - Fingal	Barnes	Municipal	Underground Water	100.0		7-29-70	Approved
1729	Haugen, Elven - Williston	Williams	Irrigation	Underground Well	305.0	210.6	7-30-70	Approved
1730	Argusville, City of - Argusville	Cass	Municipal	Underground Sources	100.0		8-3-70	Approved
1731	Makoti, City of - Makoti	Ward	Municipal	Underground Water (One Well)	100.0		7-13-70	Approved
1732	Wimbleton, City of - Wimbleton	Barnes	Municipal	Underground Sources	150.0		8-7-70	Approved
1733	Stein, Leo F. - Gladstone	Stark	Irrigation	Unnamed Intermittent Draws, trib. to Antelope Creek and Heart River	138.2	69.1	8-7-70	Pending
1734	Ames, LeRoy - Glendive, Mont.	Williams	Irrigation	Underground Well	313.0	275.5	8-13-70	Approved
1735	Oliver County Water Management District - Center	Oliver	Flood Control	Unnamed Stream, trib. to Square Butte Creek & Missouri River	1100.0 storage 150.0 annual use		8-24-70	Approved
1736	Maher, James A. & Daniel - Horristown, S. Dak.	Grant	Irrigation	Unnamed Stream, trib. to Cedar and Cannonball Rivers	23.6	23.6	9-2-70	Approved

<u>NO.</u>	<u>NAME AND ADDRESS</u>	<u>COUNTY</u>	<u>CLASS OF PERMIT</u>	<u>SOURCE</u>	<u>ACRE-FEET</u>	<u>ACRES</u>	<u>DATE OF CLAIM</u>	<u>STATUS</u>
1737	Burian, Laudie - Manning	Billings	Stockwater, Fish & Wildlife	Intermittent Draw (Unnamed), trib. to Knife River	26.0 storage 12.0 annual use		9- 8-70	Approved
1738	Lidgerwood, City of - Lidgerwood	Richland	Municipal	One Well In Milnor Channel Aquifer	250.0		9-10-70	Approved
1739	Stadheim, Orval J. - Reeder	Adams	Irrigation	Buffalo Creek, trib. to North Fork of the Grand River	83.5	83.5	9- 3-70	Approved
1740	Huether, William - Lisbon	Ransom	Stockwater, Fish & Wildlife	Unnamed Trib., trib. to Sheneye River	181.74 storage 84.06 annual use		10- 8-70	Approved
1741	Lahren, Ervin D. - Washburn	McLean	Industrial	Painted Woods Creek, trib. to Missouri River	8.0		10- 9-70	Approved
1742	U. S. Department of Agri- culture - Forest Service - Billings, Montana	McKenzie	Stockwater, Fish & Wildlife	Unnamed Stream, trib. to North Fork Spring Creek & Yellow- stone River	24.6 storage 12.3 annual use		9- 8-70	Approved
1743	Minot, City of - Minot	Ward	Municipal	Underground Aquifer	6720.0		9-16-70	Approved
1744	Cook, Joseph B & James K. - Hazen	Mercer	Irrigation	The Knife River and Intei- mittent Stream, trib. to Missouri River	207.0	207.0	12- 7-70	Approved
1745	Sundre Sand & Gravel - Minot	Ward	Industrial	Ground Water (Well)	50.0		12- 9-70	Approved
1746	Klabunde, Lloyd - Emmet	McLean	Irrigation	Ground Water	782.0	386.0	12-16-70	Approved
1747	Klabunde, Harold - Emmet	McLean	Irrigation	Ground Water	605.0	302.5	12-16-70	Approved
1748	Pepke, Darrell L. - Hettinger	Adams	Irrigation	Flat Creek and Intermittent Stream, trib. to North Fork of the Grand River	140.5	140.5	12-31-70	Approved
1749	Ficeneo, Francis - Milnor	Ransom	Irrigation	Ground Water (one well)	140.0	109.0	11-27-70	Approved
1750	Ellendale, City of - Ellendale	Dickey	Municipal	Ground Water (two wells)	967.0		12-10-70	Approved
1751	Park, Phillip A. - Steele	Kidder	Irrigation	Ground Water (one well)	299.5	199.7	1-14-71	Approved
1752	Jordan, John M. - Mott	Hettinger	Irrigation	Thirty-Mile Creek, trib. to Cannonball River	45.6	45.6	2-17-71	Approved
1753	Zunick, Vernon O. - White Earth	Mountrail	Irrigation	White Earth River, trib. to Missouri River	17.0	17.3	2-17-71	Approved
1754	Knudsen, Olaf & Henry - Cartwright	McKenzie	Irrigation	Charbonneau Creek, trib. to Yellowstone River	24.0	32.8	2-24-71	Approved

<u>NO.</u>	<u>NAME AND ADDRESS</u>	<u>COUNTY</u>	<u>CLASS OF PERMIT</u>	<u>SOURCE</u>	<u>ACRE-FOOT</u>	<u>ACRES</u>	<u>DATE OF CLAIM</u>	<u>STATUS</u>
1755	Christine Sewer and Water Association - Christine	Richland	Municipal	Ground Water	100.0		3- 8-71	Pending
1756	Ullman, Wendell - Mott	Adams	Irrigation	Cedar River, trib. to Cannonball River	44.3	44.3	3- 8-71	Approved
1757	Bos, Ivon - Turtle Lake	McLean	Irrigation	Ground Water	540.0	360.0	1-17-72	Approved
1758	Neustel, Richard - Robinson	Kidder	Irrigation	Ground Water	666.0	444.0	3- 9-71	Approved
1759	Nome, City of - Nome	Barnes	Municipal	Ground Water	60.0		3- 4-71	Approved
1760	Green Goose Golf Course - Northwood	Grand Forks	Irrigation	Goose River, trib. to the Red River	60.0	48.7	3-19-71	Approved
1761	Oster, Ernest O. - Hazen	Mercer	Irrigation	Unnamed Intermittent Stream, trib. to the Knife River	38.0	38.0	3-22-71	Approved
1762	Tompkins, F. L. - Minot	McHenry	Irrigation	Ground Water	540.5	360.5	3-25-71	Approved
1763	Brandt, Harold - Moorhead, Minn.	Cass	Irrigation	Red River	194.7	129.8	3-26-71	Denied
1764	Rohde, Lorenz - Pettibone	Kidder & Stutsman	Irrigation	Ground Water	906.0	604.0	4- 6-71	Approved
1765	Cavaller, City of - Cavalier	Pembina	Municipal	Ground Water	1678.0		3-29-71	Pending
1766	Kono, David - Grassy Butte	McKenzie	Irrigation	Intermittent Draw, trib. to Little Missouri and Missouri Rivers	40.0	28.9	3-30-71	Pending
1767	Killdeer, City of - Killdeer	Dunn	Municipal	Ground Water	365.0		4-16-71	Approved
1768	Swindler, Richard - Mott	Hettinger	Irrigation	Thirty-Mile Creek, trib. to Cannonball River	112.0	112.0	4-19-71	Approved
1769	Texaco, Inc. - Denver, Colorado	McKenzie	Industrial	Ground Water (two wells)	470.0		3-29-71	Approved
1770	Brown, Leo R. - Bentley	Hettinger	Stockwater, Fish & Wildlife	Intermittent Stream, trib. to Cedar River and Cannonball River	180.0 storage 90.0 annual use		4-29-71	Approved
1771	S & S Construction Company - Moorhead, Minn.	Trail	Industrial	Elm River, trib. to Red River	9.0		5- 5-71	Approved
1772	Larson, John W., Jr. - Bismarck	Burleigh	Irrigation	Missouri River and Ground Water	343.0	229.0	5- 6-71	Approved

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1773	Maw, Quincy C. - Teppen	Kidder	Irrigation	Ground Water	1542.0	1028.0	5-21-71	Approved
1774	Grand Forks County Water Management District - Grand Forks	Grand Forks	Flood Control	Unnamed tributary, trib. to South Branch of Turtle River and Red River	1534.0 storage 29.4 annual use		5- 5-71	Approved
1775	Kleiver, Kenneth - Grand Rapids	LaMoure	Irrigation	James River	630.0	315.0	6- 3-71	Approved
1776	Bahr, Willard - Almont	Grant & Morton	Irrigation	Intermittent Stream and Big Muddy Creek, trib. to Heart River	37.0	36.5	6-16-71	Approved
1777	Kruger, Dave - Harmarth	Bowman	Irrigation	Unnamed Intermittent Draws, trib. to Little Missouri River	136.5	136.5	6-17-71	Approved
1778	Crane, Franklin S. - San Luis Obispo, Calif.	Trail	Irrigation	Ground Water	300.0	351.1	5-21-71	Approved
1779	Bopp, Gordon - New Salem	Morton	Irrigation	Big Muddy Creek, trib. to Heart River	26.6	26.6	6-29-71	Approved
1780	Carpenter, Delbert - Sidney, Montana	McKenzie	Irrigation	Unnamed Intermittent Draw, trib. to Yellowstone River	173.5	173.5	6-30-71	Approved
1781	McBee Bros. - Rhame	Bowman	Irrigation	Unnamed Creek, trib. to Little Missouri River	24.5	24.5	6- 3-71	Approved
1782	Dew-Dak Ranch Irrig. - Teppen	Kidder	Irrigation	Ground Water	1644.0	1096.0	6-16-71	Approved
1783	Rehovsky, Louis Oakes	Dickey	Irrigation	Ground Water Well	750.0	375.0	7-12-71	Approved
1784	Bernhardt, Joseph Wing	Burlleigh	Irrigation	Ground Water	285.0	190.0	7-19-71	Approved
1785	Sunset Memorial Gardens, Inc. Fargo	Cass	Irrigation	Red River of the North	60.0	30.0	3- 3-72	Approved
1786	Janson, David E. Grenora	Divide	Irrigation	Unnamed Storage Pond, trib. to Missouri River	375.0	375.3	8- 3-71	Approved
1787	Hestekin, James K. Bowman	Bowman	Irrigation	Unnamed Creek, trib. to Grand River	33.5	33.5	6-23-71	Approved
1788	Kruger, Dave Harmarth	Bowman	Irrigation	Unnamed Intermittent Draws, trib. to Little Missouri River	55.0	54.9	7- 8-71	Approved
1789	Asbridge, T. W. Carson	Grant	Irrigation	Unnamed Creek, trib. to Cannonball River	344.0	172.0	7-20-71	Pending
1790	LaMoure, City of LaMoure	LaMoure	Recreation	Cottonwood Creek, trib. to James River	8076.0 storage 1482.0 annual use		7-28-71	Approved

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1791	Chrlsan Water Users Association, Inc. Fargo	Cass	Industrial	Ground Water	40.0		8-20-71	Approved
1792	S & S Construction Company Fargo	Grand Forks	Industrial	Turtle River, trib. to Red River	12.0		8-23-71	Approved
1794	Haraldson, Harald C. Northwood	Grand Forks	Irrigation	Ground Water (two wells)	343.3	274.7	6- 9-71	Approved
1795	Grand Forks-Trail Water Users, Inc. Grand Forks	Grand Forks	Industrial	Ground Water (three wells)	650.0		9-14-71	Approved
1796	Ensrud, Myron K. Pekin	Nelson	Stockwater, Fish & Wildlife	Unnamed Tributary, trib. to Sheyenne River	31.7 storage 14.28 annual use		7-20-71	Approved
1797	Johnson, Mervin P. Watford City	McKenzie	Stockwater, Fish & Wildlife	Unnamed Creek, trib. to Bear Den Creek and Missouri River	24.7 storage 11.1 annual use		8-31-71	Approved
1798	Reis, Sebastian Napoleon	Logan	Irrigation	Ground Water (three wells)	462.5	462.5	8-31-71	Approved
1799	Adahl, Clarence A. Churchs Ferry	Ramsey	Irrigation	Dry Lake, trib. to Devils Lake	888.3	588.9	9- 7-71	Approved
1800	Olson, Reuben Ray	Williams	Irrigation	Unnamed Creek, trib. to Beaver Creek and Missouri River	30.9	30.9	9- 7-71	Approved
1801	R. B. Pullin (Martin Ranch) Beach	Golden Valley	Irrigation	Unnamed Creek, trib. to Andrews Creek and Little Missouri River	150.0	75.4	9-17-71	Approved
1802	Tescher, Jim Medora	Billings	Irrigation	Little Missouri River, trib. to Missouri River	45.8	45.8	9-21-71	Approved
1803	Sorenson, Homer Charlison	McKenzie	Irrigation	Sand Creek, trib. to Lake Sakakawea and Missouri River	82.0	82.0	9-22-71	Approved
1804	Bjornson, Paul J. Valley City	Barnes	Irrigation	Sheyenne River, trib. to Red River	420.0	210.0	7-19-71	Pending
1805	Meyer, Dennis F. Bismarck	Burliegh	Irrigation	Unnamed Streams, trib. to Burnt Creek and Missouri River	227.0 annual use	227.0	10- 1-71	Approved
1806	Grand Forks County MHD Grand Forks	Grand Forks	Flood Control	Unnamed Tributary, trib. to North Branch of Turtle River	915.0 storage 22.0 annual use		9-29-71	Approved
1807	Presser, Gerald Turtle Lake	McLean	Irrigation	Ground Water	1942.0	1295.0	10- 8-71	Approved
1808	Gall, Harold McIntosh, S. Dakota	Sioux	Irrigation	Unnamed Intermittent Stream, trib. to Cedar Creek and Cannonball River	4.0	7.5	10-14-71	Approved

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1809	Haglike, Kenneth J. Solen	Sioux	Irrigation	Beaver Creek, trib. to Missouri River	45.0 annual use	12.0	10-29-71	Approved
1810	Sadowsky, Robert W. Hanning	Dunn	Irrigation	Unnamed Intermittent Draw, trib. to Crooked Creek & Knife River	61.0	61.0	11-15-71	Approved
1811	Miller, Calvin Rhome	Bowman	Irrigation	Little Missouri River, trib. to Missouri River	184.5	184.5	11-15-71	Approved
1812	Delzer, Raymond & Betty Jean Bismarck	Burleigh	Irrigation	Unnamed Intermittent Stream, trib. to Burnt Creek and Missouri	90.0 annual use	179.4	11-29-71	Approved
1813	Grand Forks County Water Management District Grand Forks	Grand Forks	Flood Control	South Branch of Turtle River, trib. to Turtle River	1200.0 storage 32.4 annual use		12-14-71	Approved
1814	Grand Forks County Water Management District Grand Forks	Grand Forks	Flood Control	South Branch of Turtle River	1441.0 storage 42.0 annual use		12-14-71	Approved
1815	Gilbertson, George & Sons Raub	McLean	Irrigation	Garrison Reservoir	566.0	293.0	12-23-71	Approved
1816	Streich, Orrin R. Englevale	Dickey	Irrigation	Ground Water	619.0	619.0	12-29-71	Approved
1817	Heinzen, Francis N. Emmet	McLean	Irrigation	Ground Water and Garrison Reservoir	706.0	706.0	12-27-71	Approved
1818	Ask, Inc. Minot	Burleigh	Industrial	Ground Water (two wells)	80.0		12-29-71	Approved
1819	North Dakota State Historical Society Bismarck	Williams	Irrigation	The Confluence of the Yellowstone and Missouri Rivers	7.5	5.0	1-11-72	Approved
1820	Seefeldt, Ronald Grand Rapids	LaMoure	Irrigation	Ground Water	440.0	440.0	1-14-72	Approved
1821	Developers, Inc. Mandan	Morton	Industrial	Ground Water (two wells)	50.0		1-31-72	Approved
1822	Wahpeton, City of Wahpeton	Richland	Municipal	Ground Water (three wells)	1670.0		2- 2-72	Pending
1823	New Town, City of New Town	Mountrail	Municipal	Ground Water (three wells)	775.0		2- 2-72	Approved
1824	O'Shea, John Emmet	McLean	Irrigation	Ground Water (one well)	453.0	302.0	2-11-72	Approved
1825	Knudsen, Olaf Cartwright	McKenzie	Irrigation	Charbonneau Creek, trib. to Yellowstone and Missouri Rivers	50.0	59.0	2-22-72	Approved

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1826	Kiker, Russell Sentinel Butte	Slope	Irrigation	Little Missouri River, trib. to Missouri River	180.9	180.9	2-22-72	Approved
1827	Goven, Gene Turtle Lake	McLean	Irrigation	Crooked Lake	10.4	10.4	3-8-72	Pending
1828	Burleigh County Water Management District (McDowell Dam) Bismarck	Burleigh	Recreation	Unnamed Stream, trib. to Apple Creek and Missouri River	786.0 storage 169.5 annual use		3-11-72	Approved
1829	Konzak, Peter Minnewaukan	Benson	Irrigation	Mauvais Coulee, trib. to Devils Lake	172.8	115.2	3-22-72	Approved
1830	Jorgenson, Dale C. Watford City	McKenzie	Irrigation	Unnamed Creek, trib. to Cherry Creek & Little Missouri River	92.1	92.1	3-23-72	Approved
1831	Rott Brothers Nortonville	LaMoure	Irrigation	Ground Water (one well)	388.0	194.0	3-24-72	Approved
1832	Sedlacek, Benjamin Fairview, Montana	McKenzie	Irrigation	Four Mile Creek, trib. to Missouri River	76.0	148.0	3-24-72	Approved
1833	Wachter Ranch Bismarck	Burleigh	Irrigation	Ground Water (one well)	400.0	208.0	3-24-72	Approved
1834	Gunlikson, Julian Zahl	Williams	Irrigation	Scorio Creek, trib. to Little Muddy River & Missouri River	92.5	92.5	3-30-72	Pending
1835	Swindler, Richard Mott	Hettinger	Irrigation	Thirty-Mile Creek, trib. to Cannonball River	87.0	87.0	3-30-72	Approved
1836	Small, Walter Bismarck	Burleigh	Irrigation	Ground Water	262.4	262.4	4-7-72	Pending
1837	Edwards, Lyle Adrian	LaMoure	Irrigation	Ground Water (one well)	615.0	410.0	4-7-72	Approved
1838	Mr. B's Estate, Inc. Bismarck	Burleigh	Industrial	Ground Water (five wells)	118.0		4-17-72	Approved
1839	Tescher, Jim Medora	Golden Valley	Irrigation	Beaver Creek, trib. to Little Missouri River	275.5	275.5	4-17-72	Approved
1840	Agassiz Water Users, Inc. Hanvel	Grand Forks	Industrial	Ground Water (one well)	150.0		4-20-72	Pending
1841	Porsborg, Kenneth Handan	Oliver	Irrigation	Missouri River	1592.4	796.2	4-21-72	Approved
1842	Price, Raymond Hensler	Oliver	Irrigation	Missouri River	170.0	85.0	4-21-72	Approved
1843	Hagge, Marvin Minot	McLean	Irrigation	Garrison Reservoir, trib. to Missouri River & Ground Water (one well)	480.0	312.0	4-25-72	Pending

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1844	Pekin, City of Pekin	Nelson	Municipal	Ground Water (one well)	28.0		4-26-72	Approved
1845	Adams, Harris Steele	Kidder	Irrigation	Ground Water (two wells)	348.9	348.9	4-27-72	Approved
1846	Hepper, Rudolph Fort Yates	Sioux	Irrigation	Oahe Reservoir	968.0	484.0	5- 4-72	Pending
1847	Lindeigen, Leland Turtle Lake	McLean	Irrigation	Ground Water (two wells) and Lake Margaret	645.0	461.2	4-18-72	Approved
1848	Hafner, Myron K. Beulah	Mercer	Irrigation	Lake Sakakawea, trib. to Missouri River	538.0	269.0	5-22-72	Pending
1849	Kulm, City of Kulm	Lakoure	Municipal	Ground Water (two wells)	174.0		5-11-72	Approved
1850	Buchholtz, Barry A. Jamestown	Stutsman	Irrigation	James River	12.0	6.0	5-16-72	Pending
1851	Golden Valley, City of Golden Valley	Mercer	Municipal	Ground Water (one well)	112.0		5-22-72	Pending
1852	Galesburg, City of Galesburg	Trail	Municipal	Ground Water	20.0		6-15-72	Pending
1853	Jud, City of Jud	Lakoure	Municipal	Ground Water (one well)	161.3		6-15-72	Pending
1854	Walsh County Water Management District Grafton	Walsh	Flood Control	Unnamed Trib., trib. to Middle Branch Park River and Red River	575.0 storage 21.3 annual use		6- 8-72	Pending
1855	U. S. Bureau of Sport Fisheries and Wildlife (Valley City National Fish Hatchery) Twin Cities, Minnesota	Barnes	Recreation	Shyenne River, trib. to Red River of the North	470.0		5-30-72	Pending
1856	Texaco, Inc. Keene	McKenzie	Industrial	Ground Water (one well)	0.71		6-19-72	Pending
1857	Schiermeister, William E. Hazelton	Emmons	Stockwater, Fish & Wildlife	Intermittent Stream trib. to Missouri River	70.3 storage 35.19 annual use		6-28-72	Pending

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Applications denied - 1

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