

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
MONTHLY REPORT OF APPROPRIATIONS AS OF DECEMBER 31, 1958  
1957-1959 APPROPRIATIONS

Fund No.	Available July, 1957	Expended To Nov. 30, 1958	Expended Dec., 1958	Balance Dec. 31, '58
1. Commissioners' Per Diem and Expenses . . . . .	6,000.00	2,619.44	295.61	3,084.95
2. Administration . . . . .	47,000.00	30,973.83	1,409.85	16,514.14
Refunds and Deposits . . . . .	1,897.82			
3. Maintenance of Dams. . . . .	105,000.00	125,905.04	18,328.16	9,959.41
Refunds and Deposits . . . . .	49,192.61			
4. International and Interstate Commissioners' Conference Expenses. . . . .	8,000.00	5,110.38	482.72	1,821.75
Refunds and Deposits . . . . .	14.85			
5. Topographic Surveys, Cooperation With U. S. G. S. . . . .	30,000.00	22,413.70	- -	7,586.30
6. Hydrographic Surveys, Cooperation With U. S. G. S. . . . .	27,500.00	19,747.23	- -	7,752.77
7. Engineering and Geological Surveys and Demonstrations. . . . .	37,500.00	29,182.74	1,067.69	12,556.38
Refunds and Deposits . . . . .	5,306.81			
8. Cooperation with U. S. Departments and for Organizing Conservation and Irrigation Districts. . . . .	50,000.00	28,770.59	2,249.77	18,989.64
Refunds and Deposits . . . . .	10.00			
9. Small Projects, Investigations, Surveys, Etc. . . . .	118,000.00	91,201.45	3,756.63	25,416.90
Refunds and Deposits . . . . .	2,374.98			
10. Administration of Water Laws . . . . .	6,000.00	3,996.51	547.67	1,455.82
OASIS Refunds. . . . .	3,800.00	5,375.48	- -	2,965.76
Transfer from Contingency Fund . . . . .	4,541.24			
	<u>\$502,138.31</u>	<u>\$365,896.39</u>	<u>\$28,138.10</u>	<u>\$108,103.82</u>

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
MONTHLY REPORT OF APPROPRIATIONS AS OF DECEMBER 31, 1958  
1955-1957 APPROPRIATIONS

Fund No.	Available July, 1955	Expended To Nov. 30, '58	Expended Dec., '58	Balance Dec. 31, '58
1. Commissioners' Per Diem and Expenses . . . . .	6,000.00	5,822.11		177.89
2. Administration . . . . .	40,000.00	42,453.03		41.19
Collections, Refunds, Transfers . . . . .	2,494.22			
3. Maintenance of Dams . . . . .	100,000.00	220,556.13		38.53
Collections and Refunds . . . . .	120,594.66			
4. International and Interstate Commissioners' Conference Expenses . . . . .	8,000.00	8,040.42		.18
Collections and Refunds . . . . .	40.60			
5. Topographic and Conservation Cooperation with U.S.G.S. .	30,000.00	30,000.00		NIL
6. Hydrographic and Conservation Cooperation with U.S.G.S..	25,000.00	25,000.00		NIL
7. Engineering and Geological Surveys and Demonstrations. .	35,000.00	35,223.93		NIL
Transfer from Number 1. . . . .	223.93			
8. Cooperation with U. S. Departments and for Organizing Conservation and Irrigation Districts. . . . .	40,400.00	40,374.92		25.08
9. Small Projects and Investigations and Surveys. . . . .	106,000.00	125,994.37		NIL
Collections and Refunds . . . . .	19,994.37			
0. Water Right Investigations . . . . .	12,000.00	11,994.23		5.77
	<u>\$545,747.78</u>	<u>\$545,459.14</u>		<u>\$288.64</u>

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
 MONTHLY REPORT OF APPROPRIATIONS AS OF DECEMBER 31, 1958  
 (CONTINUING APPROPRIATIONS)

Appropriation Title	Balance July, 1957	Expended To Nov. 30, '58	Expended Dec., 1958	Balance Dec. 31, '58
Construction Bond Guaranty Fund . . . . .	70,541.00	NIL	NIL	75,944.59
Deposit of Income from Investments Income and Retirement . . . . .	5,403.59			
Multiple Purpose Fund . . . . .	384,892.93	152,577.64	28,531.53	214,328.27
Collections, Refunds, Transfers. . . . .	10,544.51			

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
 DEPOSITS IN THE BANK OF NORTH DAKOTA  
 DECEMBER 31, 1958

Source of Deposits	Transit Number	Amount Deposited	Expended To Dec. 31, '58	Balance Dec. 31, '58
Collections on Yellowstone Pumping Irrigation District \$3,500 Warrant. Tax collections for partial payment of interest and principal to April, 1958.	501-118	2,451.22		2,451.22
Contributions to January 1, 1957: \$35,600.10				
Contributions for Ground Water Surveys:				
Drake		\$ 750.00		
Ellendale		500.00		
Hatton		1,000.00		
Hillsboro		1,000.00		
Jamestown		1,500.00		
Lehr		1,000.00		
Leeds		1,000.00		
Linton		1,500.00		
Max		1,500.00		
Michigan		1,500.00		
Minot		1,500.00		
Strasburg		1,000.00		
Stutsman County		1,500.00		
	501-128	55,651.66	45,083.34	<u>10,568.32</u>
TOTAL OF ALL BANK OF NORTH DAKOTA DEPOSITS AS OF DECEMBER 31, 1958 . . . . .				<u><u>\$13,019.54</u></u>

PAYROLL  
 NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
 DECEMBER 31, 1958

PERMANENT EMPLOYEES

Name	Position	Pay Grade	Salary December	With. Tax	Social Security	Hosp. Ins.	Savings Bonds	Net Pay	Remarks
Hoisveen, Milo W.	State Engineer	N-6	824.17	117.60	- -	12.60	18.75	675.22	Inc April, 1958
Baessler, Gordon	Draftsman	E-7	314.67	46.90	7.08	- -	- -	260.69	Inc September '58
Cooper, Vernon S.	Ass't Secretary	½M-3	353.84	71.00	7.75	12.60	- -	262.49	Inc April, 1958
Faudskar, Sid	Rodman	A-10	18.95	2.40	.43	- -	- -	16.12	Quit Dec., 1958
Fredrickson, Fred	Coordinator	F-5	350.00	32.60	7.88	- -	- -	309.52	Inc February, '58
Gehring, Edna	File Clerk	B-9	206.67	37.10	4.65	5.45	- -	159.47	Inc August, 1958
Grindberg, Alan	Engineer	H-5	466.67	74.60	10.50	- -	- -	381.57	Inc December, '58
Johnson, Lloyd	Const. Foreman	F-9	392.67	41.30	.28	12.60	- -	338.49	Inc August, 1958
Krebsbach, Joseph	Instrumentman	F-6	364.17	25.50	5.67	12.60	- -	320.40	Inc April, 1958
Putz, Roy	Material Expert	A-9	185.00	13.50	4.16	5.45	- -	161.89	Inc December, '57
Reimers, Ernest	Rodman	C-10	243.42	13.90	5.48	- -	- -	224.04	Inc December, '58
Reiter, Daniel	Operator	G-1	366.67	35.50	7.08	- -	18.75	305.34	Inc August, 1958
Sackman, Eugene	Instrumentman	F-3	335.67	9.80	7.55	12.60	- -	305.72	Inc February, '58
Sandwick, Hazen	Engineer	K-4	617.67	61.60	13.90	12.60	37.50	492.07	Start July, 1958
Schulz, Jim	Bookkeeper	E-2	275.00	39.70	6.19	- -	- -	229.11	Start Sept, 1958
Schweigert, Luella	Chief Steno	F-4	345.17	62.60	7.77	- -	- -	274.80	Inc August, 1958
Timm, Robert J.	Asst. St. Engr.	K-6	651.67	68.80	- -	12.60	- -	570.27	Inc July, 1958
Walterson, Jean	Clerk-Typist	D-2	231.75	11.40	5.21	- -	- -	215.14	Inc August, 1958
Ziegler, Victor	Engineer	J-3	547.67	79.00	- -	12.60	- -	456.07	Inc December, '58

PAYROLL  
 NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
 DECEMBER 31, 1958

TEMPORARY EMPLOYEES

Name	Position	Salary December	With. Tax	Social Security	Hosp. Ins.	Net Pay	Remarks
Burkhardtmeier, Albert	Operator	449.75	67.60	10.12	- -	372.03	Working by the hour
Carpenter, Rodney	Rodman	25.00	2.30	.56	- -	22.14	" " " "
Gouin, Marlyn	Operator	401.63	32.70	9.04	- -	359.89	" " " "
Johnson, George T.	Laborer	28.80	2.80	.65	- -	25.35	" " " "
Jorgenson, Floyd	Rodman	22.50	3.50	.51	3.38*	15.11	" " " "
Knutson, Lewis	Driller	196.95	23.40	4.44	- -	169.11	" " " "
McMaster, George	Driller	490.00	64.00	- -	- -	426.00	" " " "
Randall, Robert	Operator	492.10	74.70	11.08	- -	406.32	" " " "
Renville, Harry	Operator	382.38	55.40	8.61	- -	318.37	" " " "
Urness, Joseph G.	Operator	394.83	57.40	8.88	- -	328.55	" " " "
Walterson, Howard W.	Operator	372.78	53.40	8.39	12.60	298.39	" " " "

\*Personal Property Taxes

STATE WATER CONSERVATION COMMISSION  
MINUTES OF MEETING  
Held in Office of State Water Commission in  
Bismarck, North Dakota  
January 16, 1959

A regular meeting of the North Dakota State Water Conservation Commission was called to order on January 16, 1959, in the office of the Commission, State Capitol Building, to consider routine business matters. The meeting was held following the meeting of the Governor's Coordinating Committee. The following were present:

MEMBERS OF THE STATE WATER CONSERVATION COMMISSION

Governor John E. Davis, Chairman, Bismarck  
W. W. Corwin, Member from Fargo  
Einar Dahl, Member from Watford City  
Oscar Lunseth, Member from Grand Forks  
A. M. Christensen, Member from Minot  
Math Dahl, Commissioner of Agriculture & Labor, Bismarck  
Milo W. Hoisveen, Secretary & Chief Engineer, State Engineer, Bismarck

The meeting was called to order by Governor Davis at 1:15 p.m. with Commissioners W. W. Corwin, Einar Dahl, Oscar Lunseth, A. M. Christensen, Math Dahl and Secretary Hoisveen present.

It was moved by Commissioner Einar Dahl and seconded by Commissioner Lunseth that the Minutes of the December 12, 1958, meeting be approved and filed in the office of the State Water Conservation Commission. All members voted aye and said motion carried.

It was moved by Commissioner Corwin and seconded by Commissioner Lunseth that the Financial Statement for December 1958, be approved. All members voted aye and said motion carried.

Secretary Hoisveen advised the group that the annual convention of the Mississippi Valley Association is scheduled for St. Louis, Missouri, on February 1st, 2nd and 3rd. He inquired which of the Commissioners would be able to attend said convention and stated that in view of the legislature being in session and the necessity of his appearing before the Appropriations Committee, he could not attend. Mr. Corwin stated that he would attend said convention. Messrs. Christensen and Lunseth said they may be in a position to attend said convention but could not give a definite answer until a later date. Secretary Hoisveen will contact them relative thereto.

Secretary Hoisveen read a report of the activities of the cooperative ground water program with the U. S. Geological Survey for 1958. The report was prepared by Mr. Joe Brookhart, District Geologist, and is attached hereto as Annex I.

Secretary Hoisveen stated that a proposal has been presented to create a review and coordinating board which would include representatives from the State Game and Fish Department, the Soil Conservation Service, the State Highway Department and the State Water Conservation Commission. The purpose of the board would be

to meet and discuss the proposed projects of each department and would aid in familiarizing each office with the work being done and anticipated by the other. The Commissioners unanimously agreed that there would be an advantage to this but that it should be done on a voluntary basis and not organized with statutory limitations. It was suggested that Mr. I. A. Acker, Special Assistant Attorney General for the State Water Conservation Commission, be contacted and requested to prepare a statement of policy and prepare the necessary by-laws so far as meeting is concerned.

A report covering the construction activities of the Commission during the past season was made available to Commission members. All of the members viewed the same and expressed satisfaction as to Commission activities. A copy of said report is attached hereto as Annex II. The report covered the construction features of the small dam fund, as well as the multiple purpose fund.

In discussing legislative matters, Secretary Hoisveen stated that a multiple purpose bill requesting \$300,000 will be presented by interested members of the legislature. The multiple purpose fund provides for cooperating with the Bureau of Reclamation, the U. S. Geological Survey and municipalities in building dams and providing water supplies. A bill clarifying the law so far as inclusion and exclusion of lands in an irrigation district will also be presented. Secretary Hoisveen indicated that the Commission was successful in obtaining all the legislation requested two years ago and we do not require much in the way of added legislation to be considered at present. It was moved by Commissioner Christensen and seconded by Commissioner Math Dahl that the Commissioners support and urge the passage of the above bills. All members voted aye and said motion carried.

Secretary Hoisveen stated that membership dues in the National Rivers and Harbors Congress are now due. This amounts to \$75.00 for the State Water Conservation Commission and \$10.00 for Secretary Hoisveen, Chief Engineer of the State Water Conservation Commission. It was moved by Commissioner Einar Dahl and seconded by Commissioner A. M. Christensen that said membership dues be forwarded. Upon roll call all members voted aye and said motion carried.

Secretary Hoisveen stated that bids had been taken for the purchase of a truck for use in hauling the low boy. He indicated that the bids were high and a subsequent review of equipment needs was made with other staff members relative to alternate methods of purchasing the truck and crane. As a result of this review, it was recommended that the truck on the present hydro-crane be retained and used for a fifth wheel on the low boy. The hydro-crane and a hydraulic wagon type scraper could be made available for trade on a new crawler type dragline. The dragline is a more desirable piece of equipment for use on dam construction than the present hydro-crane. The International truck which has almost 100,000 miles will be traded on another truck having comparable capacity characteristics. It was moved by Commissioner Lunseth and seconded by Commissioner Christensen that Secretary Hoisveen be authorized to purchase the equipment herein stipulated. Upon roll call all Commissioners voted aye and said motion carried.

Secretary Hoisveen stated that staff members have been doing some evaluating work on the low head dam and in going over some of the area discovered that due to the fact that the water is now coming out of the river clear, it is carrying a silt load and considerable bank erosion is occurring between Bismarck and the Garrison reservoir. He felt that the Commission should go on record requesting flood protective works to preserve the remaining lands adjacent to the Missouri



River. If some action is not taken, Secretary Hoisveen expressed concern that the Corps of Engineers would construct the high head dam. However, if protective works were constructed on this reach of the Missouri River, it is doubtful if a high dam could be justified as it would be superimposed on the protective works. It was moved by Commissioner Lunseth and seconded by Commissioner Math Dahl that the State Water Conservation Commission request the Corps of Engineers to provide protective works between the reaches of the Oahe and Garrison reservoirs. All members voted aye and said motion carried.

A letter requesting topographic maps from the Agencia Comercial Cousado (out of Portugal) was read to the Commissioners by Secretary Hoisveen. He stated that he forwarded a copy of said request to Senator Young requesting that the matter be checked by the State Department in view of the fact that topographic maps are of considerable value in planning military maneuvers. As yet no reply has been received.

A letter from the City Commissioners of Dickinson supporting the dam on Green River and from the County Commissioners of Burleigh County requesting riprap on Apple Creek dam, and that restrictions on motor boating be placed on the creek, were also read to the Commissioners for their information.

The following water rights were considered:

#772. The State Game and Fish Department requests the right to divert 800 acre feet from Cedar Creek in Slope County. The water is for use in Cedar Creek reservoir for use in enhancing fish and wildlife. It was moved by Commissioner Corwin and seconded by Commissioner Christensen that said water right be approved as requested. All members voted aye and said motion carried.

#773. Mr. Gotthilf Siewert, Richardton, requests the right to divert 197.8 acre feet of water from the Heart River to irrigate 98.9 acres of land. It was moved by Commissioner Corwin and seconded by Commissioner Christensen that Mr. Siewert be granted the right to divert 62 acre feet of water to irrigate 41.2 acres of land.. All members voted aye and said motion carried.

#775. The Sheyenne Sand and Gravel Company, Sheyenne, requests the right to divert 2534 acre feet of water from the Sheyenne River. All of said water is return flow and is used in a gravel washing plant. Upon question on return flow, Secretary Hoisveen stated that the Gravel Company is required to lagoon the water before it is returned to the stream to insure against pollution. It was moved by Commissioner Corwin and seconded by Commissioner Christensen that said request be granted. All members voted aye and said motion carried.

#776. Mr. Peter Kronbauer, Jr., Mott, requests the right to divert 2 acre feet of water from the North Fork of the Cannonball River to irrigate 12 acres of land. It was moved by Commissioner Corwin and seconded by Commissioner Christensen that Mr. Kronbauer be granted the right to divert 18 acre feet of water to irrigate said 12 acres of land. Said increase of the requested amount is made in view of the fact that 2 acre feet would not be adequate to irrigate 12 acres of land and an error was obviously made in computing the same by the applicant as he requested a peak flow of 2 c.f.s. The adjustment was made on the basis of 1.5 acre feet per acre irrigated. Upon roll call all members voted aye and said motion carried.

It was moved by Commissioner Christensen and seconded by Commissioner Einar Dahl that Secretary Hoisveen prepare a resolution addressed to Colonel L. W. Pine of the Corps of Engineers at Riverdale, commending him for his work and efforts while serving in this area. All members voted aye and said motion carried.

The meeting adjourned at 3:00 o'clock p.m.

Respectfully submitted,

Milo W Hoisveen  
Secretary

Attest:

John E. Davis  
Governor

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
DAM REPAIR PROGRAM FOR 1958

Project	Name	County	SWCC	Local	Game & Fish	U.S.I.S.	Total
400	Welk Dam	Emmons	\$ 1,897.19	\$ 1,897.19	\$ 1,897.19		\$ 5,691.57
569	Valker	Ward	4,250.03	4,250.03			8,500.06
580	Enderlin	Ransom	584.48				584.48
391	Silver Lake	Sargent	1,639.42	1,639.41	1,639.41		4,918.24
389	Fessenden	Wells	1,231.94	1,231.94			2,463.88
630	Brillian Twp.	Ward	301.86	603.71			905.57
467	Wyard	Foster	1,783.86	1,783.86			3,567.72
299	Pembina City	Pembina	4,293.03	4,293.03			8,586.06
520	Grand Forks Park	Grand Forks	13,250.89	26,501.76			39,752.65
330	Sharpe Lake	Man., Can.	5,504.11		5,000.00		10,504.11
546	Vigness	Walsh	2,126.08	2,126.08			4,252.16
631	Ziebaugh Pass	Benson & Ramsey	2,543.20	3,083.36		\$ 7,629.57	13,256.13
227	Eator Irrig 4A	McHenry	1,999.42	2,999.12			4,998.54
227	Eator Irrig.5A	McHenry	2,256.01	3,384.02			5,640.03
227*	Eaton Irrig.MD	McHenry	1,200.00				1,200.00
353*	Cedar Lake	Adams			5,225.29		5,225.29
489*	Ray	Williams	18,604.93				18,604.93
<b>Totals</b>			<b>\$63,466.45</b>	<b>\$53,793.51</b>	<b>\$ 13,761.89</b>	<b>\$7,629.57</b>	<b>\$ 138,651.42</b>

\*Work Incomplete - Total cost includes State Water Conservation Commission expenditures to date.

Total Unpaid Commitments Due State Water Conservation Commission:

Local:

Fessenden \$ 615.97  
Pembina City 4,293.03  
Grand Forks 13,118.07  
Vigness 2,126.08  
Ziebaugh Pass 3,083.36  
\$ 23,236.51

Game and Fish:

Sharpe Lake \$ 5,000.00

U. S. Indian Service:

Ziebaugh Pass \$ 7,629.57

Total Unpaid Commitments \$ 35,866.08

Appendix I

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
SUMMARY OF APPROPRIATIONS AND EXPENDITURES  
CONSTRUCTION AND RECONSTRUCTION OF DRAINS OR IRRIGATION AND MULTIPLE PURPOSE FUND  
JULY 1, 1943 - JANUARY 1, 1959

COUNTY, IRRIGATION DISTRICT, OR FLOOD CONTROL DISTRICT	1943-45 APPROP. 50,000.00	1945-47 APPROP. 240,000.00	1947-49 APPROP. 200,000.00	1949-51 APPROP. 150,000.00	1951-53 APPROP. 90,000.00	1953-57 APPROP. 140,000.00	1955(CONTIN.) APPROP. 200,000.00	1957(CONTIN.) APPROP. 200,000.00	TOTAL APPROP. 1,270,000.00
							(184,892.93 transf. to MP Fund in '57)		
Barnes	-	-	-	-	3,838.72	-	-	-	3,838.72
Benson and Ramsey	-	-	-	-	-	-	-	-	2,143.69
Bottineau	-	2,785.31	-	-	-	-	-	2,143.69	2,143.69
Cass	8,930.00	72,171.51	27,823.73	19,446.82	38,288.87	41,338.31	-	16,085.48	25,353.48
Cavalier	-	-	-	1,595.93	4,856.85	-	-	27,114.48	235,113.72
Dickey	-	-	-	-	3,797.82	-	-	-	6,452.78
Grand Forks	1,954.12	7,820.92	4,618.74	1,415.25	1,792.00	5,908.73	-	27,166.40	3,797.82
Morton	2,995.00	-	-	-	-	-	-	-	50,676.16
Pembina	3,760.00	11,212.19	3,945.38	83,013.39	3,100.32	4,030.74	-	19,970.30	2,995.00
Ramsey	-	-	-	-	-	1,056.25	9,105.01	5,607.14	129,032.32
Richland	27,001.01	70,782.51	343.12	18,150.93	6,848.34	11,921.93	-	1,147.80	15,768.40
Sargent	-	-	2,436.55	1,227.94	32.00	2,141.20	-	-	136,195.64
Trails	2,350.00	30,756.83	58,847.26	12,331.98	5,996.80	19,078.91	-	1,262.70	5,837.69
Walsh	3,009.87	-	-	4,453.07	-	1,940.38	-	-	130,624.48
Walsh - Pembina	-	38,964.93	4,324.85	-	-	-	-	-	9,403.32
Burlington Irrigation Project	-	-	2,144.80	-	-	-	-	-	43,289.78
Cartwright Irrigation District	-	-	-	-	-	-	-	-	2,144.80
Eaton Flood Irrigation District	-	-	420.00	-	2,451.19	-	-	2,267.95	2,267.95
Lewis & Clark Irrigation District	-	-	8,456.35	-	-	-	-	5,455.43	8,326.62
Oakes Groundwater Irrigation Dist.	-	-	-	-	-	-	-	-	8,456.35
Sioux Irrigation District	-	4,316.64	614.64	1,479.78	-	-	4,959.05	-	4,959.05
Lower Heart River Flood Control Dist.	-	-	-	-	-	-	-	40,000.00	6,911.06
Sheyenne River Clearing	-	-	-	-	-	-	-	-	40,000.00
Snagging and Clearing	-	-	-	-	-	12,914.32	-	-	12,914.32
Miscellaneous and Allocated	-	-	-	-	-	11,691.43	-	-	11,691.43
Unallocated	-	140.44	13,979.51	1,343.23	-	21,495.11	1,043.01	157,922.18	195,923.48
<b>TOTALS</b>	<u>50,000.00</u>	<u>239,451.28</u>	<u>127,954.93</u>	<u>144,458.32</u>	<u>71,002.91</u>	<u>140,000.00</u>	<u>15,107.07</u>	<u>384,892.93</u>	<u>1,172,867.44</u>

Appendix I



12  
IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
University Station  
Grand Forks, North Dakota  
January 5, 1959

Mr. Milo Hoisveen, Secretary  
State Water Conservation Commission  
Capitol Bldg.  
Bismarck, N. Dak.

Dear Mr. Hoisveen:

The following is a report of the activities of the cooperative ground-water program for 1958.

Field work was continued in Traill and Kidder counties and an investigation of Stutsman County was started. Small area-reconnaissance investigations were made at Leeds, Michigan City, Max, Berthold, and Minot. Reconnaissance drilling to locate pre-glacial valleys in McKenzie, Williams, and Divide counties was started. During the field season 154 test holes were drilled. The total footage was 20,503.75. A breakdown by areas is as follows:

<u>Area</u>	<u>Number of test holes</u>	<u>Footage drilled</u>
Leeds - Benson County	25	4,815.25
Michigan City - Nelson County	3	94.5
Traill County	14	2,524.75
Stutsman County	35	4,240.25
Max - McLean and Ward County	15	1,910.5
Berthold - Ward County	12	1,711.5
Minot - Ward and McHenry County	31	3,947.0
Williams County	12	776.0
McKenzie County	7	483.0
	<hr/>	<hr/>
Total	154	20,503.75

Water samples were taken and complete chemical analysis were made from 48 wells. Field checks of water-hardness was made on over 1,200 wells.

In the various investigations nearly two-thousand farm, industrial, and municipal wells were inventoried to get pertinent data on the depth, water level, pumping rate, and quality of the water.

*Appendix II*

Important new aquifers were discovered north of Carrington in Foster County where wells in a buried outwash yield more than 2,000 gpm, in eastern Statesman County where over 100 feet of saturated gravel was encountered in test drilling, and in Williams County where the valley of the Little Muddy river was found to have at least 90 feet of gravel fill.

Pumping tests were made at Bottineau, Souris, Carrington, New England, and Sully.

Approximately 1,800 square miles of surface geology was mapped in detail.

In the following areas reports were completed and submitted for review:

Rolla-St. John	Hunter
Mylo	Westhope
Minto-Forest River	Tioga
Powers Lake	Richardton
Maddock	

Field work has been completed and reports are being prepared on the following areas:

Devils Lake	Drake
Lakota	Linton-Strasburg

Over 100 inquiries about ground-water conditions in various parts of the State were answered, either through this office or with information furnished to the North Dakota Geological Survey or State Water Conservation Commission.

In addition to cooperative ground-water work a federally-financed U. S. G. S. Water-Supply Paper (1425) entitled "Saline water-resources of North Dakota" was published.

Very truly yours,

Joseph W. Brookhart  
District Geologist

cc: Chief, Ground Water Branch, Washington, D. C. Code: 4050 0001  
Branch Area Chief, Denver, Colo.  
W. M. Laird

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
MONTHLY REPORT OF APPROPRIATIONS AS OF JANUARY 31, 1959  
1957-1959 APPROPRIATIONS

Fund No.	Available July, 1957	Expended To Dec. 31, 1958	Expended Jan., 1959	Balance Jan. 31, '59
1. Commissioners' Per Diem and Expenses . . . . .	6,000.00	2,915.05	828.05	2,256.90
2. Administration . . . . .	47,000.00	32,383.68	1,616.86	14,917.28
Refunds and Deposits . . . . .	1,917.82			
3. Maintenance of Dams. . . . .	105,000.00	144,233.20	5,004.40	11,485.42
Refunds and Deposits . . . . .	55,723.02			
4. International and Interstate Commissioners' Conference Expenses. . . . .	8,000.00	6,193.10	42.98	1,778.77
Refunds and Deposits . . . . .	14.85			
5. Topographic Surveys, Cooperation With U. S. G. S. . . . .	30,000.00	22,413.70	- -	7,586.30
6. Hydrographic Surveys, Cooperation With U. S. G. S. . . . .	27,500.00	19,747.23	4,202.03	3,550.74
7. Engineering and Geological Surveys and Demonstrations . . . . .	37,500.00	30,250.43	4,573.75	7,982.63
Refunds and Deposits . . . . .	5,306.81			
8. Cooperation with U. S. Departments and for Organizing Conservation and Irrigation Districts. . . . .	50,000.00	31,020.36	1,802.86	17,186.78
Refunds and Deposits . . . . .	10.00			
9. Small Projects, Investigations, Surveys, Etc. . . . .	118,000.00	94,958.08	2,953.92	22,462.98
Refunds and Deposits . . . . .	2,374.98			
10. Administration of Water Laws . . . . .	6,000.00	4,544.18	579.01	876.81
OASIS Refunds. . . . .	3,800.00	5,375.48	995.36	1,970.40
Transfer from Contingency Fund . . . . .	4,541.24			
	<u>\$508,688.72</u>	<u>\$394,034.49</u>	<u>\$22,599.22</u>	<u>\$92,055.01</u>

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
MONTHLY REPORT OF APPROPRIATIONS AS OF JANUARY 31, 1959  
1955-1957 APPROPRIATIONS

Fund No.	Available July, 1955	Expended To Dec. 31, '58	Expended Jan., '59	Balance Jan. 31, '59
1. Commissioners' Per Diem and Expenses . . . . .	6,000.00	5,822.11	176.00	662.92
Collections and Refunds . . . . .	661.03			
2. Administration . . . . .	40,000.00	42,453.03		41.19
Collections, Refunds, Transfers . . . . .	2,494.22			
3. Maintenance of Dams. . . . .	100,000.00	220,556.13		38.53
Collections and Refunds . . . . .	120,594.66			
4. International and Interstate Commissioners' Conference Expenses. . . . .	8,000.00	8,040.42		.18
Collections and Refunds . . . . .	40.60			
5. Topographic and Conservation Cooperation with U.S.G.S. . .	30,000.00	30,000.00		NIL
6. Hydrographic and Conservation Cooperation with U.S.G.S..	25,000.00	25,000.00		NIL
7. Engineering and Geological Surveys and Demonstrations. .	35,000.00	35,223.93		NIL
Transfer from Number 1. . . . .	223.93			
8. Cooperation with U. S. Departments and for Organizing Conservation and Irrigation Districts. . . . .	40,400.00	40,374.92		25.08
9. Small Projects and Investigations and Surveys. . . . .	106,000.00	125,994.37		NIL
Collections and Refunds . . . . .	19,994.37			
10. Water Right Investigations. . . . .	12,000.00	11,994.23		5.77
	<u>\$546,408.81</u>	<u>\$545,459.14</u>	<u>\$176.00</u>	<u>\$773.67</u>



NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
 MONTHLY REPORT OF APPROPRIATIONS AS OF JANUARY 31, 1959  
 (CONTINUING APPROPRIATIONS)

Appropriation Title	Balance July, 1957	Expended To Dec. 31, '58	Expended Jan., 1959	Balance Jan. 31, '59
Construction Bond Guaranty Fund . . . . .	70,541.00	NIL	NIL	75,944.59
Deposit of Income from Investments Income & Retirement	5,403.59			
Multiple Purpose Fund . . . . .	384,892.93	181,109.17	7,298.61	207,029.66
Collections, Refunds, Transfers. . . . .	10,544.51			

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
 DEPOSITS IN THE BANK OF NORTH DAKOTA  
 JANUARY 31, 1959

Source of Deposits	Transit Number	Amount Deposited	Expended To Jan. 31, '59	Balance Jan. 31, '59
Collections on Yellowstone Pumping Irrigation District \$3,500 Warrant. Tax collections for partial payment of interest and principal to April, 1958.	501-118	2,451.22		2,451.22
Contributions to January 1, 1957: \$35,600.10				
Contributions for Ground Water Surveys:				
Drake		\$ 750.00		
Ellendale		500.00		
Hatton		1,000.00		
Hillsboro		1,000.00		
Jamestown		1,500.00		
Lehr		1,000.00		
Leeds		1,000.00		
Linton		1,500.00		
Max		1,500.00		
Michigan		1,500.00		
Minot		1,500.00		
Strasburg		1,000.00		
Stutsman County	501-128	1,500.00		
		55,651.66	45,190.14	<u>10,461.52</u>
TOTAL OF ALL BANK OF NORTH DAKOTA DEPOSITS AS OF JANUARY 31, 1959 . . . . .				<u>\$12,912.74</u>

PAYROLL  
NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
JANUARY 31, 1959

PERMANENT EMPLOYEES

Name	Position	Pay Grade	Salary January	With. Tax	Social Security	Hosp. Ins.	Savings Bonds	Net Pay	Remarks
Holsveen, Milo W.	State Engineer	N-6	824.17	117.60	17.18	12.60	18.75	658.04	Inc April, 1958
Baesler, Gordon	Draftsman	E-7	314.67	46.90	7.87	- -	- -	259.90	Inc September '58
Cooper, Vernon S.	Ass't Secretary	1/2M-3	353.84	71.00	8.85	12.60	- -	261.39	Inc April, 1958
Fredrickson, Fred	Coordinator	F-5	350.00	32.60	8.75	- -	- -	308.65	Inc February, '58
Gehring, Edna	File Clerk	B-10	211.67	37.80	5.29	5.45	- -	163.13	Inc January, 1959
Grindberg, Alan	Engineer	H-5	466.67	74.60	11.67	- -	- -	380.40	Inc December, '58
Johnson, Lloyd	Const. Foreman	F-9	392.67	51.30	9.82	12.60	- -	318.95	Inc August, 1958
Krebsbach, Joseph	Instrumentman	F-6	364.17	25.50	9.10	12.60	- -	316.97	Inc April, 1958
Putz, Roy	Material Expert	A-9	185.00	13.50	4.63	5.45	- -	161.42	Inc December, '57
Reimers, Ernest	Rodman	C-10	243.42	13.90	6.09	- -	- -	223.43	Inc December, '58
Reiter, Daniel	Operator	G-1	366.67	25.50	9.57	- -	18.75	312.85	Inc August, 1958
Sackman, Eugene	Instrumentman	F-3	335.67	9.80	8.40	12.60	- -	304.87	Inc February, '58
Sandwick, Hazen	Engineer	K-4	617.67	61.60	15.44	12.60	37.50	490.53	Start July, 1958
Schulz, Jim	Bookkeeper	E-5	298.67	44.00	7.47	- -	- -	247.20	Inc January, 1959
Schweigert, Luella	Chief Steno	F-5	354.67	64.10	8.87	- -	- -	281.70	Inc January, 1959
Timm, Robert J.	Asst. St. Engr.	K-6	651.67	68.80	16.30	12.60	- -	553.97	Inc July, 1958
Walterson, Jean	Clerk-Typist	D-3	238.50	12.80	5.96	- -	- -	219.74	Inc January, 1959
Ziegler, Victor	Engineer	J-3	547.67	79.00	13.69	12.60	- -	442.38	Inc December, '58

PAYROLL  
 NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
 JANUARY 31, 1959

TEMPORARY EMPLOYEES

Name	Position	Salary January	With. Tax	Social Security	Hosp. Ins.	Net Pay	Remarks
Burkhardtmeier, Albert	Operator	152.00	25.90	4.55	- -	151.55	Working by the hour
Gouin, Marlyn	Operator	145.25	12.50	3.63	- -	129.12	" " " "
McMaster, George	Driller	357.50	49.70	- -	- -	307.80	" " " "
Randall, Robert	Operator	192.40	28.10	4.81	- -	159.49	" " " "
Renville, Harry	Operator	145.25	21.70	3.63	- -	119.92	" " " "
Urness, Joseph G.	Operator	146.13	22.10	3.65	- -	120.38	" " " "
Walterson, Howard W.	Operator	154.48	23.50	3.86	12.60	114.52	" " " "

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
MONTHLY REPORT OF APPROPRIATIONS AS OF FEBRUARY 28, 1959  
1957-1959 APPROPRIATIONS

Fund No.	Available July, 1957	Expended To Jan. 31, 1959	Expended Feb., 1959	Balance Feb. 28, '59
1. Commissioners' Per Diem and Expenses . . . . .	6,000.00	3,743.10	70.45	2,186.45
2. Administration . . . . .	47,000.00	34,000.54	2,113.36	12,815.42
Refunds and Deposits . . . . .	1,929.32			
3. Maintenance of Dams. . . . .	105,000.00	149,237.60	8,174.11	3,311.31
Refunds and Deposits . . . . .	55,723.02			
4. International and Interstate Commissioners' Conference Expenses. . . . .	8,000.00	6,236.08	560.57	1,218.20
Refunds and Deposits . . . . .	14.85			
5. Topographic Surveys, Cooperation With U. S. G. S.. . . .	30,000.00	22,413.70	2,547.97	5,038.33
6. Hydrographic Surveys, Cooperation With U. S. G. S. . . .	27,500.00	23,949.26	- -	3,550.74
7. Engineering and Geological Surveys and Demonstrations. .	37,500.00	34,824.18	708.09	7,274.54
Refunds and Deposits . . . . .	5,306.81			
8. Cooperation with U. S. Departments and for Organizing Conservation and Irrigation Districts. . . . .	50,000.00	32,823.22	1,713.30	15,473.48
Refunds and Deposits . . . . .	10.00			
9. Small Projects, Investigations, Surveys, Etc.. . . . .	118,000.00	97,912.00	2,453.69	20,009.29
Refunds and Deposits . . . . .	2,374.98			
10. Administration of Water Laws . . . . .	6,000.00	5,123.19	563.40	313.41
OASIS Refunds. . . . .	3,800.00	6,370.84	- -	1,970.40
Transfer from Contingency Fund . . . . .	4,541.24			
	<u>\$508,700.22</u>	<u>\$416,633.71</u>	<u>\$18,904.94</u>	<u>\$73,161.57</u>

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
MONTHLY REPORT OF APPROPRIATIONS AS OF FEBRUARY 28, 1959  
1955-1957 APPROPRIATIONS

Fund No.	Available July, 1955	Expended To Jan. 31, '59	Expended Feb., '59	Balance Feb. 28, '59
1. Commissioners' Per Diem and Expenses . . . . .	6,000.00	5,998.11	392.52	270.40
Collections and Refunds . . . . .	661.03			
2. Administration . . . . .	40,000.00	42,453.03		41.19
Collections, Refunds, Transfers . . . . .	2,494.22			
3. Maintenance of Dams. . . . .	100,000.00	220,556.13		38.53
Collections and Refunds . . . . .	120,594.66			
4. International and Interstate Commissioners' Conference Expenses. . . . .	8,000.00	8,040.42		.18
Collections and Refunds . . . . .	40.60			
5. Topographic and Conservation Cooperation with U.S.G.S. .	30,000.00	30,000.00		NIL
6. Hydrographic and Conservation Cooperation with U.S.G.S..	25,000.00	25,000.00		NIL
7. Engineering and Geological Surveys and Demonstrations. .	35,000.00	35,223.93		NIL
Transfer from Number 1. . . . .	223.93			
8. Cooperation with U. S. Departments and for Organizing Conservation and Irrigation Districts. . . . .	40,400.00	40,374.92		25.08
9. Small Projects and Investigations and Surveys. . . . .	106,000.00	125,994.37		NIL
Collections and Refunds . . . . .	19,994.37			
10. Water Right Investigations. . . . .	12,000.00	11,994.23		5.77
	<u>\$546,408.81</u>	<u>\$545,635.14</u>	<u>\$392.52</u>	<u>\$381.15</u>

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
 MONTHLY REPORT OF APPROPRIATIONS AS OF FEBRUARY 28, 1959  
 (CONTINUING APPROPRIATIONS)

Appropriation Title	Balance July, 1957	Expended To Jan. 31, '59	Expended Feb., 1959	Balance Feb. 28, '59
Construction Bond Guaranty Fund . . . . .	70,541.00	NIL	NIL	75,969.59
Deposit of Income from Investments and Retirement .	5,428.59			
Multiple Purpose Fund . . . . .	384,892.93	188,407.78	2,058.89	204,970.77
Collections, Refunds, Transfers . . . . .	10,544.51			

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
DEPOSITS IN THE BANK OF NORTH DAKOTA  
FEBRUARY 28, 1959

Source of Deposits	Transit Number	Amount Deposited	Expended To Feb. 28, '59	Balance Feb. 28, '59
Collections on Yellowstone Pumping Irrigation District \$3,500 Warrant. Tax collections for partial payment of interest and principal to April, 1958.	501-118	2,451.22		2,451.22
Contributions to January 1, 1957: \$35,600.10				
Contributions for Ground Water Surveys:				
Drake		\$ 750.00		
Ellendale		500.00		
Hatton		1,000.00		
Hillsboro		1,000.00		
Jamestown		1,500.00		
Lehr		1,000.00		
Leeds		1,000.00		
Linton		1,500.00		
Max		1,500.00		
Michigan		1,500.00		
Minot		1,500.00		
Strasburg		1,000.00		
Stutsman County	501-128	55,651.66	52,133.53	<u>3,518.13</u>
TOTAL OF ALL BANK OF NORTH DAKOTA DEPOSITS AS OF FEBRUARY 28, 1959 . . . . .				<u><u>\$5,969.35</u></u>



PAYROLL  
NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
FEBRUARY 28, 1959

PERMANENT EMPLOYEES

Name	Position	Pay Grade	Salary February	With. Tax	Social Security	Hosp. Ins.	Savings Bonds	Net Pay	Remarks
Hoisveen, Milo W.	State Engineer	N-6	824.17	117.60	20.60	12.60	18.75	654.62	Inc April, 1958
Baesler, Gordon	Draftsman	E-7	314.67	46.90	7.87	- -	- -	259.90	Inc September '58
Cooper, Vernon S.	Ass't Secretary	YM-3	353.84	71.00	8.85	12.60	- -	261.39	Inc April, 1958
Fredrickson, Fred	Coordinator	F-5	350.00	32.60	8.75	- -	- -	308.65	Inc February, '58
Gehring, Edna	File Clerk	B-10	211.67	37.80	5.29	5.45	- -	163.13	Inc January, 1959
Grindberg, Alan	Engineer	E-5	466.67	74.60	11.67	- -	- -	380.40	Inc December, '58
Johnson, Lloyd	Const. Foreman	F-9	392.67	51.30	9.82	12.60	- -	318.95	Inc August, 1958
Krebsbach, Joseph	Instrumentman	F-6	364.17	25.50	9.10	12.60	- -	316.97	Inc April, 1958
Putz, Roy	Material Expert	A-9	185.00	13.50	4.63	5.45	- -	161.42	Inc December, '57
Reimers, Ernest	Rodman	C-10	243.42	13.90	6.09	- -	- -	223.43	Inc December, '58
Reiter, Daniel	Const. Foreman	G-1	366.67	25.50	9.57	- -	18.75	312.85	Inc August, 1958
Sackman, Eugene	Instrumentman	F-3	335.67	9.80	8.40	12.60	- -	304.87	Inc February, '58
Sandwick, Hazen	Engineer	K-4	617.67	61.60	15.44	12.60	37.50	490.53	Start July, 1958
Schulz, Jim	Bookkeeper	E-5	298.67	44.00	7.47	- -	- -	247.20	Inc January, 1959
Schweigert, Luella	Chief Steno	F-5	354.67	64.10	8.87	- -	- -	281.70	Inc January, 1959
Timm, Robert J.	Asst. St. Engr.	K-6	651.67	68.80	16.30	12.60	- -	553.97	Inc July, 1958
Walterson, Jean	Clerk-Typist	D-3	238.50	12.80	5.96	- -	- -	219.74	Inc January, 1959
Ziegler, Victor	Engineer	J-3	547.67	79.00	13.69	12.60	- -	442.38	Inc December, '58

PAYROLL  
 NORTH DAKOTA STATE WATER CONSERVATION COMMISSION  
 FEBRUARY 28, 1959

TEMPORARY EMPLOYEES

Name	Position	Salary February	With. Tax	Social Security	Hosp. Ins.	Net Pay	Remarks
Burkhardsmeyer, Albert	Operator	350.00	52.50	8.75	- -	288.75	Working by the hour
Gouin, Marlyn	Operator	70.00	5.90	1.75	- -	62.35	" " " "
McMaster, George	Driller	445.00	58.40	10.22	- -	376.38	" " " "
Randall, Robert	Operator	373.70	56.40	9.34	- -	307.96	" " " "
Renville, Harry	Operator	84.00	10.50	2.10	- -	71.40	" " " "
Urness, Joseph G.	Operator	349.00	51.60	8.73	- -	288.67	" " " "
Walterson, Howard W.	Operator	370.00	56.00	9.25	12.60	292.15	" " " "