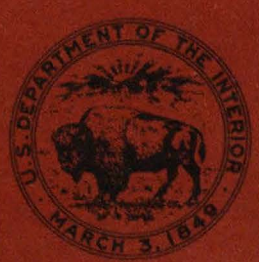
STATISTICAL SUMMARIES OF STREAMFLOW AND WATER-QUALITY DATA FOR STREAMS OF WESTERN NORTH DAKOTA, 1977-80

U.S. GEOLOGICAL SURVEY



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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATISTICAL SUMMARIES OF STREAMFLOW AND WATER-QUALITY DATA FOR STREAMS OF WESTERN NORTH DAKOTA, 1977-80

By Norman D. Haffield

Open-File Report 81-1066

Bismarck, North Dakota

July 1981

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

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CONVERSION FACTORS

For those readers who may prefer to use the International System (SI) of metric units rather than inch-pound units, the conversion factors for the terms used in this report are listed below:

Multiply inch-pound unit	By	To obtain SI unit
cubic foot per second (ft^3/s)	0.02832	cubic meter per second (m^3/s)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
square mile (mi^2)	2.590	square kilometer (km^2)

STATISTICAL SUMMARIES OF STREAMFLOW AND WATER-QUALITY DATA FOR STREAMS OF WESTERN NORTH DAKOTA, 1977-80

By Norman D. Haffield

ABSTRACT

Statistics for the streamflow and water-quality data collected at 67 stations in western North Dakota from October 1977 through September 1980 are presented in a format that will make the data more useful to those who are making water-resources planning and development decisions.

INTRODUCTION

As much as 4.1 billion tons of strippable lignite lies within the 16 defined strippable deposits in western North Dakota (Pollard and others, 1972). Mining and its associated activities have been increasing at a rapid pace in recent years. In an effort to measure the effect that increased coal development might have on the water resources of western North Dakota, the U.S. Geological Survey established a data-collection network to monitor the quality and quantity of streamflow in drainage basins underlain by strippable lignite deposits. The data from this network will provide a data base that will aid in making the various land-use and development impact decisions that will be required in the future.

Purpose and Scope

The purpose of this report is to present a statistical summary of the streamflow and water-quality data that have been collected from October 1977 through September 1980 at 67 streamflow stations located in that part of North Dakota that is likely to be impacted by coal development. The data used to compile this report have been published in the U.S. Geological Survey's Water-Data Reports for 1978, 1979, and 1980; however, summarization of the data in one report puts it in a more useful and manageable form.

Location and Physical Geography of Study Area

The study area consists of the area in North Dakota located southwest of the Missouri River and Burke, Burleigh, Divide, McLean, Mountrail, Renville, Ward and Williams Counties, located north and east of the Missouri River.

All of the study area except the extreme northeastern part is in the Upper Missouri drainage basin. The major tributaries to the Missouri River are the Knife, Heart, Cannonball, North Fork Grand and Little Missouri Rivers. Of these, the Knife, Heart, and Cannonball lie entirely within the State's boundaries and flow in an easterly direction to their respective confluences with the Missouri. The North Fork Grand River, which begins in Bowman County, flows southeasterly into South Dakota. The Little Missouri River has its head waters in northeastern Wyoming and flows through parts of Montana and South Dakota before entering North Dakota near the southeastern corner; it then continues to flow in a northerly direction to its confluence with Lake Sakakawea.

The northern part of the study area is in the Hudson Bay drainage basin and is drained by the Souris River and its tributaries. The Souris which originates in the southeastern part of the Canadian Province of Saskatchewan flows in a southeasterly direction through the northeast corner of the study area before swinging northward and returning to Canada.

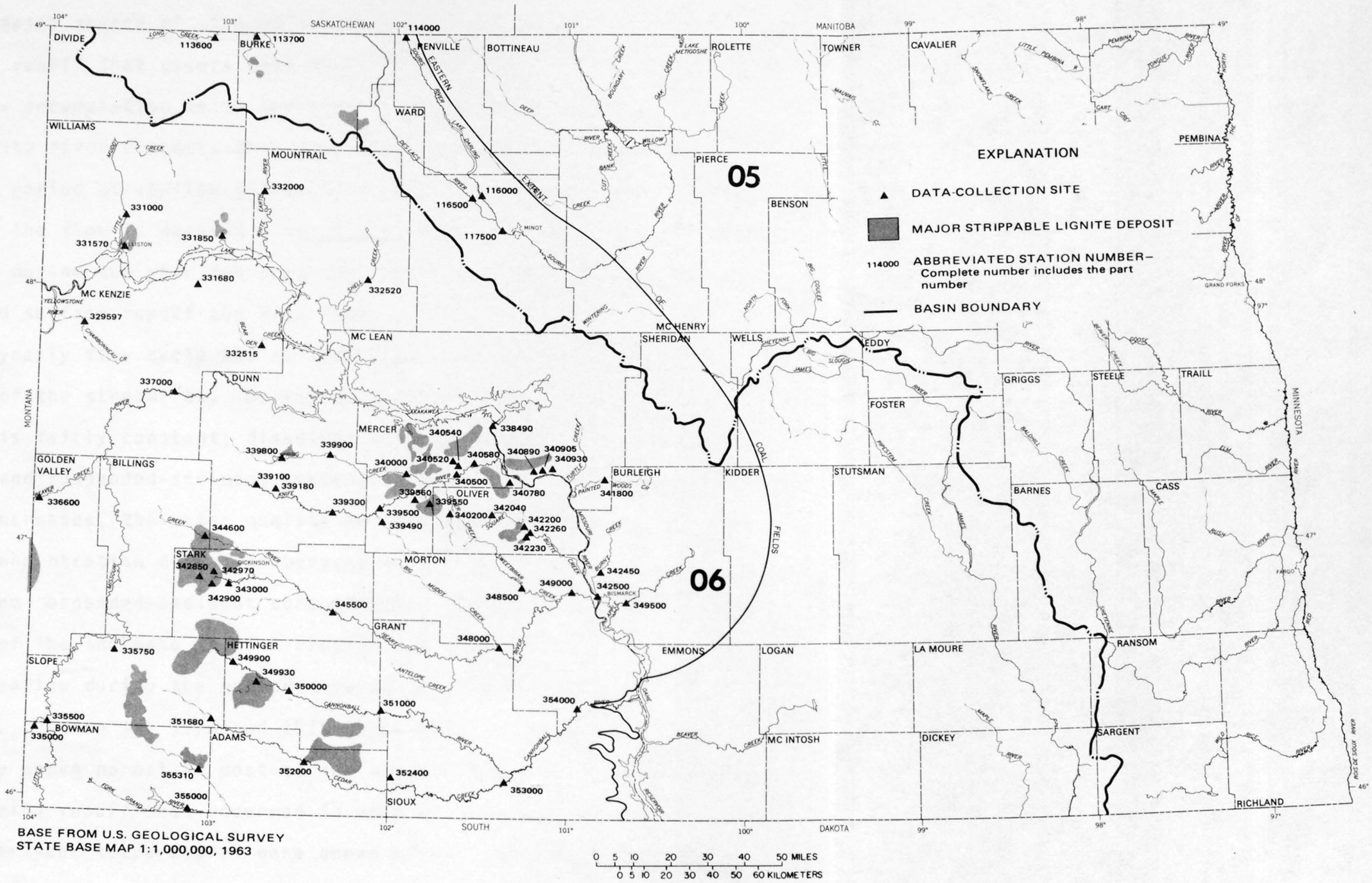

FIGURE 1.—Locations of data-collection sites and major strippable lignite deposits.

Hydrologic Conditions

The major source of streamflow throughout the study area is the snowmelt runoff that occurs each spring. High flows occur as the winters snow accumulation melts and runs overland across mostly frozen ground into river channels that have heavy ice cover. After the snowmelt period streamflow gradually recedes to a base-flow condition in which the flow is derived from ground-water discharge. Rainfall at any time during the year can cause an increase in streamflow through increased surface runoff and base flow.

The yearly flow cycle has an important influence on the water quality of the streamflow. During periods of base flow, the water quality is fairly constant; dissolved-solids concentration generally is high and suspended-sediment concentration is low. When surface runoff increases, the water quality becomes more variable; dissolved-solids concentration decreases because of the dilution by runoff water, and suspended-sediment concentration generally increases because of the increase in bank erosion and channel scour.

Streamflow during the period covered by this report was quite variable. During the 1978 and 1979 water years streamflow was generally above normal in most of the area. This was a result of the heavy spring runoff that occurred in each of these years. During the 1980 water year temperatures were above normal and precipation was below normal during the winter and spring months, therefore snowmelt runoff was much below normal. These dry conditions which continued throughout the summer months resulted in extremely low streamflow for the year. Mean discharges for each water year and the mean for period of record at selected streamflow stations are given in the following table.

Streamflow station	Mean discharge (ft^3/s) (cubic feet per second)			
	Water Year			Period of record
	1978	1979	1980	
Souris River above Minot	85.4	680	26.0	173
Little Missouri River near Watford City	1501	580	72.9	612
Knife River at Hazen	332	191	48.6	181
Heart River near Mandan	702	365	61.3	263
Cannonball River at Breien	719	370	64.8	253

DATA COLLECTION

Prior to October 1977, the U.S. Geological Survey was operating 42 surface-water data collection stations in the area covered by this report. These stations were operated to provide information for various Federal and State planning and action programs. Discharge, water temperature, and specific conductance data, were being collected at each station. Other water-quality data were being collected also, but due to the varying needs of the programs for which the individual stations were being operated, the water-quality parameters varied from station to station.

During 1977 and 1978, 25 new data collection stations were added to the network. The new stations were of special benefit to the overall data collection network as they generally were located on smaller drainage basins, therefore making it possible to begin establishing a data base that would aid in defining the hydrologic properties of these smaller drainage systems.

At present data being collected in the area includes continuous discharge record and various water-quality measurements made at approximately monthly intervals. Measurements of specific conductance, water temperature, pH, dissolved oxygen and bicarbonate were made at the time of sample collection. Values for concentrations of dissolved chemical constituents were determined on sample water filtered through a 0.45-micron filter immediately following collection, and values for total concentrations were determined on unfiltered samples of the water-sediment mixture. Chemical analyses of samples were made by the U.S. Geological Survey Central Laboratory in Arvada, Colo. Sediment analyses were made by the sediment laboratory of the U.S. Geological Survey in Worland, Wyo. The data were collected according to U.S. Geological Survey Water Resources Division procedures (Skougstad and others, 1979; Guy and Norman, 1970; and Carter and Davidian, 1968).

STATISTICAL SUMMARIES

The statistical summaries of hydrologic data collected during the period October 1977 through September 1980 are presented in the following tables. Data are identified by an eight digit station number that has been assigned to that station using the downstream-order numbering system, which is used in all U.S. Geological Survey streamflow data reports, and by the gaging station name. Tables were prepared using the SAS System (SAS Institute Incorporated, 1979). The descriptive statistics include:

(1) Sample size - the number of data values available for computing the descriptive statistics.

(2) Maximum - the largest value in a group of observations .

(3) Minimum - the smallest value in a group of observations.

(4) Mean - the sum of the values of individual observations divided by the total number of observations in the group.

(5) Median - the value of the middle observation of an uneven number of ordered observations or the mean of the two middle observations.

(6) Standard deviation - a measure of the dispersion about the mean. It is the square root of the sum of the squares of deviations from the mean of all observations in a group divided by the number of observations.

(7) Coefficient of variation - a dimensionless measure of the dispersion. It is the percentage the standard deviation is of the mean.

The first table for each station contains the statistics for selected water-quality constituents measured at periodic intervals at that station. The following are given for all constituents that had five or more observations: values for the maximum, minimum, mean, and standard deviations, and values for the 75, 50 (median), and 25 percentiles. When there were less than five observations for any constituent, only maximum and minimum values are given. Because the same sampling schedule was not used at each station, the list of water-quality variables used in the tables and the number of observations of an individual constituent could vary.

The number of observations was also affected by the streamflow conditions. The sampling was done at approximately monthly intervals, however during high flows extra samples were taken, and samples were not collected during periods of no flow. These deviations from a routine sampling schedule cause some bias to exist in the statistics for any individual station, because in order for the data base to be statistically valid, the samples should be collected so as to be representive of the entire streamflow over the period of observation.

The second table for each station contains monthly and annual statistics for daily streamflow data, which are presented in a manner similar to the water-quality data. However, the coefficient of variation, percent of annual runoff, and the 95th and 5th percentiles are also included.

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_____1979, Water-Resources Data for North Dakota, Water Year 1979: U.S. Geological Survey Water-Data Report ND-79-1, 784 p.

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05113600 LONG CREEK NEAR NOONAN, ND

LOCATION.--Lat 48°58'52", long 103°04'34", near north line of NE¼ sec.1, T.163 N., R.96 W., Divide County, Hydrologic Unit 09010001, on right bank 150 ft (46 m) upstream from county highway bridge, 1.5 mi (2.4 km) upstream from international boundary, and 7 mi (11 km) northwest of Noonan.

DRAINAGE AREA.--1,790 mi^2 (4,640 km^2), approximately, of which about 1,160 mi^2 (3,000 km^2) is probably noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	40	25.00	0.00	9.01	8.84	18.75	5.25	1.00
STREAMFLOW, INSTANTANEOUS (CFS)	40	4660.00	0.01	481.41	1110.19	201.00	28.50	0.60
SPECIFIC CONDUCTANCE (MICROMHOS)	40	2000.00	300.00	1133.00	506.52	1482.50	1200.00	687.50
PH (UNITS)	17	9.60	7.60	8.40	0.44	8.55	8.30	8.15
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	16	28.00	0.20	4.35	6.70	4.47	2.00	1.42
BICARBONATE (MG/L AS HCO3)	17	691.00	82.00	325.53	166.71	431.50	326.00	179.00
CARBONATE (MG/L AS CO3)	17	28.00	0.00	1.65	6.79	0.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	17	910.00	90.00	448.24	227.25	560.00	410.00	315.00
HARDNESS, NONCARBONATE (MG/L CACO3)	17	350.00	23.00	178.94	123.35	330.00	140.00	56.50
CALCIUM, DISSOLVED (MG/L AS CA)	17	200.00	18.00	81.88	47.70	90.50	74.00	55.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	17	100.00	11.00	59.35	28.92	85.50	56.00	36.50
SODIUM, DISSOLVED (MG/L AS NA)	17	270.00	23.00	139.41	66.18	195.00	140.00	93.50
SODIUM PERCENT	17	51.00	25.00	39.53	6.78	44.00	42.00	33.50
POTASSIUM, DISSOLVED (MG/L AS K)	17	14.00	7.60	11.15	2.09	13.00	12.00	9.60
CHLORIDE, DISSOLVED (MG/L AS CL)	17	33.00	5.10	19.31	8.39	27.00	19.00	14.50
SULFATE, DISSOLVED (MG/L AS SO4)	17	770.00	76.00	450.35	227.30	685.00	430.00	265.00
FLUORIDE, DISSOLVED (MG/L AS F)	17	0.30	0.00	0.16	0.07	0.20	0.20	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	17	16.00	1.20	6.50	3.42	7.80	6.70	4.70
BORON, DISSOLVED (UG/L AS B)	17	410.00	0.00	126.47	118.32	210.00	90.00	40.00
IRON, DISSOLVED (UG/L AS FE)	17	450.00	10.00	155.29	117.75	200.00	120.00	60.00
MANGANESE, DISSOLVED (UG/L AS MN)	17	1300.00	40.00	247.06	355.03	270.00	100.00	60.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	17	1680.00	179.00	966.29	429.61	1325.00	920.00	672.50
SOLIDS, DISSOLVED (TONS PER AC-FT)	17	2.28	0.24	1.31	0.58	1.80	1.25	0.91

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	109.00	0.01	10.55	21.58	204.57	1.0	69.30	11.50	0.60	0.03	0.01
NOVEMBER	9.30	0.04	2.69	3.23	120.09	0.3	8.09	6.70	0.70	0.26	0.09
DECEMBER	6.80	0.00	1.68	2.04	121.42	0.2	6.50	3.00	0.70	0.18	0.00
JANUARY	1.80	0.00	0.37	0.40	107.48	0.0	1.26	0.55	0.31	0.00	0.00
FEBURARY	0.58	0.00	0.19	0.17	88.19	0.0	0.53	0.30	0.19	0.00	0.00
MARCH	1380.00	0.00	87.48	258.39	295.38	8.5	833.00	5.50	0.30	0.19	0.00
APRIL	4650.00	8.70	552.76	1091.07	197.38	51.8	3724.00	354.50	87.50	38.25	13.55
MAY	1100.00	0.16	181.24	279.32	154.12	17.5	757.50	318.50	26.00	3.80	0.30
JUNE	109.00	0.03	23.03	25.23	109.58	2.2	81.40	30.75	18.00	0.14	0.03
JULY	2090.00	0.00	153.42	380.09	247.74	14.8	1065.30	137.50	7.70	0.03	0.00
AUGUST	85.00	0.00	13.38	21.31	159.22	1.3	63.60	24.00	0.66	0.01	0.00
SEPTEMBER	336.00	0.00	25.88	61.68	238.30	2.4	169.00	10.25	0.36	0.02	0.00
ANNUAL	4650.00	0.00	87.67	380.11	433.58	100.0	421.15	21.00	0.70	0.18	0.00

05113700 WEST BRANCH SHORT CREEK NEAR COLUMBUS, ND

LOCATION.--Lat 48°58'04", long 102°51'04", in SW¼SW¼SW¼ sec.2, T.163 N., R.94 W., Burke County, Hydrologic Unit 09010001, on right bank 1,000 ft (305 m) downstream from bridge on county road, 5.4 mi (8.7 km) northwest of Columbus, 3.1 mi (5.0 km) upstream from international boundary, and 6 mi (9.7 km) upstream from the confluence with East Branch Short Creek.

DRAINAGE AREA.--167 mi^2 (432 km^2), of which 87 mi^2 (225 km^2) is probably noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	18	22.50	0.00	9.00	7.59	16.00	7.25	1.75
STREAMFLOW, INSTANTANEOUS (CFS)	18	474.00	0.05	47.30	111.51	35.50	7.85	0.27
SPECIFIC CONDUCTANCE (MICROMHOS)	17	3850.00	565.00	1809.12	901.63	2445.00	1600.00	1070.00
OXYGEN, DISSOLVED (MG/L)	16	12.20	3.90	9.03	2.33	11.50	8.65	7.60
OXYGEN, DISSOLVED (PERCENT SATURATION)	16	111.00	46.00	82.12	16.62	96.25	83.00	72.00
PH (UNITS)	16	8.80	7.40	8.34	0.41	8.70	8.45	8.10
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	16	9.40	1.10	3.19	2.08	4.18	2.55	1.73
BICARBONATE (MG/L AS HCO3)	16	976.00	137.00	406.69	208.95	495.25	405.00	274.50
CARBONATE (MG/L AS CO3)	16	31.00	0.00	9.06	10.31	16.25	6.50	0.00
NITROGEN, TOTAL (MG/L AS N)	16	4.00	1.20	1.98	0.79	2.48	1.70	1.43
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	16	4.00	1.00	1.84	0.83	2.45	1.55	1.15
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	17	0.45	0.00	0.08	0.11	0.09	0.05	0.02
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	17	0.30	0.00	0.05	0.08	0.08	0.01	0.00
PHOSPHORUS, TOTAL (MG/L AS P)	16	0.68	0.07	0.23	0.19	0.26	0.19	0.11
PHOSPHORUS, DISSOLVED (MG/L AS P)	17	0.67	0.02	0.16	0.19	0.16	0.09	0.06
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	17	46.00	4.60	24.59	9.34	31.50	23.00	19.50
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	14	3.30	0.00	1.20	0.85	1.75	1.15	0.65
HARDNESS (MG/L AS CACO3)	17	450.00	89.00	243.82	119.92	335.00	230.00	130.00
HARDNESS, NONCARBONATE (MG/L CACO3)	16	9.00	0.00	0.56	2.25	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	17	85.00	19.00	44.24	19.56	58.00	43.00	24.50
MAGNESIUM, DISSOLVED (MG/L AS MG)	17	65.00	10.00	32.29	17.47	47.00	30.00	16.50
SODIUM, DISSOLVED (MG/L AS NA)	17	850.00	90.00	345.88	197.17	460.00	310.00	185.00
SODIUM PERCENT	17	92.00	65.00	73.76	5.77	76.00	73.00	70.00
POTASSIUM, DISSOLVED (MG/L AS K)	17	17.00	7.00	11.19	2.96	12.50	11.00	8.95
CHLORIDE, DISSOLVED (MG/L AS CL)	17	32.00	4.40	15.38	7.94	20.00	14.00	8.50
SULFATE, DISSOLVED (MG/L AS SO4)	17	1300.00	160.00	608.24	356.60	885.00	500.00	280.00
FLUORIDE, DISSOLVED (MG/L AS F)	17	0.50	0.10	0.25	0.12	0.35	0.20	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	17	19.00	1.20	11.17	5.46	16.00	11.00	7.45
ARSENIC, DISSOLVED (UG/L AS AS)	7	7.00	1.00	3.86	1.95	5.00	4.00	2.00
ARSENIC, TOTAL (UG/L AS AS)	6	5.00	2.00	3.33	1.21	4.25	3.50	2.00
BARIUM, DISSOLVED (UG/L AS BA)	6	300.00	0.00	98.33	104.20	150.00	70.00	37.50
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	6	200.00	0.00	100.00	63.25	125.00	100.00	75.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	7	1.00	0.00	0.43	0.53	1.00	0.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	6	5.00	0.00	0.83	2.04	1.25	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	17	310.00	70.00	175.29	63.36	220.00	190.00	130.00
CHROMIUM, DISSOLVED (UG/L AS CR)	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	6	20.00	0.00	7.50	7.58	12.50	7.50	0.00
COBALT, DISSOLVED (UG/L AS CO)	7	3.00	0.00	1.43	1.51	3.00	1.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	6	1.00	0.00	0.17	0.41	0.25	0.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	7	15.00	2.00	7.43	4.54	10.00	7.00	4.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	6	18.00	3.00	7.00	5.51	9.00	5.50	3.75
IRON, DISSOLVED (UG/L AS FE)	17	250.00	50.00	137.71	63.62	190.00	130.00	80.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	150.00	30.00	68.33	47.92	112.50	50.00	30.00
MANGANESE, DISSOLVED (UG/L AS MN)	7	68.00	0.00	24.14	22.23	30.00	20.00	10.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	7	10.00	0.00	5.00	4.73	10.00	2.00	1.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	6	5.00	0.00	3.00	2.00	4.25	4.00	0.75
NICKEL, DISSOLVED (UG/L AS NI)	7	8.00	1.00	3.86	2.85	7.00	3.00	1.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	6	13.00	4.00	8.50	3.39	10.75	9.50	4.75
VANADIUM, DISSOLVED (UG/L AS V)	7	6.00	0.00	2.59	2.42	6.00	1.80	1.00
ZINC, DISSOLVED (UG/L AS ZN)	7	30.00	3.00	12.57	9.38	20.00	10.00	5.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	6	120.00	10.00	30.00	44.27	45.00	10.00	10.00
ALUMINUM, DISSOLVED (UG/L AS AL)	7	80.00	0.00	34.29	34.09	80.00	20.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	7	100.00	10.00	46.86	30.70	60.00	50.00	18.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	6	90.00	20.00	40.00	27.57	60.00	30.00	20.00
SELENIUM, DISSOLVED (UG/L AS SE)	7	2.00	0.00	0.29	0.76	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	6	4.00	0.00	1.00	1.55	1.75	0.50	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	17	2860.00	378.00	1301.94	699.99	1785.00	1120.00	723.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	17	3.89	0.51	1.77	0.95	2.43	1.52	0.99
MERCURY, DISSOLVED (UG/L AS HG)	7	0.60	0.00	0.11	0.22	0.10	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	6	0.70	0.00	0.17	0.27	0.33	0.05	0.00
SEDIMENT, SUSPENDED (MG/L)	18	70.00	4.00	26.94	19.31	40.00	23.00	9.50
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	18	42.00	0.00	4.45	10.71	3.27	0.24	0.02

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	2.30	0.00	0.25	0.46	187.58	0.3	1.26	0.33	0.00	0.00	0.00
NOVEMBER	3.60	0.00	0.21	0.58	274.46	0.2	1.72	0.16	0.00	0.00	0.00
DECEMBER	0.18	0.00	0.01	0.04	287.43	0.0	0.14	0.00	0.00	0.00	0.00
JANUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
FEBURARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
MARCH	350.00	0.00	15.08	49.80	330.13	15.5	100.00	0.70	0.00	0.00	0.00
APRIL	900.00	0.20	52.01	136.81	263.03	51.6	344.15	27.75	8.70	2.40	0.40
MAY	114.00	0.00	15.90	23.34	146.80	16.3	74.20	24.00	7.00	0.30	0.00
JUNE	82.00	0.00	8.32	17.80	213.90	8.3	58.30	5.83	0.50	0.00	0.00
JULY	64.00	0.00	6.87	15.41	224.30	7.0	49.30	2.45	0.00	0.00	0.00
AUGUST	0.18	0.00	0.01	0.03	427.98	0.0	0.07	0.00	0.00	0.00	0.00
SEPTEMBER	16.00	0.00	0.88	2.96	337.27	0.9	7.85	0.00	0.00	0.00	0.00
ANNUAL	900.00	0.00	8.28	45.01	543.72	100.0	37.15	0.68	0.00	0.00	0.00

05114000 SOURIS (MOUSE) RIVER NEAR SHERWOOD, ND

LOCATION.--Lat 48°59'24", long 101°57'28", in NW¼SE¼NE¼ sec.33, T.164 N., R.87 W., Renville County, Hydrologic Unit 09010001, on right bank 0.8 mi (1.3 km) downstream from international boundary, 16 mi (26 km) northwest of Sherwood, and at mile 511.4 (822.8 km).

DRAINAGE AREA.--8,940 mi^2 (23,150 km^2), approximately, of which about 5,900 mi^2 (15,300 km^2) is probably noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	62	24.00	0.00	9.01	8.98	18.50	6.50	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	50	6710.00	0.47	393.32	1240.46	128.00	15.00	4.15
SPECIFIC CONDUCTANCE (MICROMHOS)	61	2110.00	345.00	1165.66	425.55	1460.00	1120.00	857.50
OXYGEN, DISSOLVED (MG/L)	58	14.80	1.80	7.15	3.16	8.90	7.60	4.37
OXYGEN, DISSOLVED (PERCENT SATURATION)	29	107.00	0.00	60.57	31.24	89.00	76.00	26.50
PH (UNITS)	59	9.00	7.04	8.01	0.36	8.30	8.00	7.70
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	12	88.00	0.30	14.53	25.06	11.75	4.45	2.30
BICARBONATE (MG/L AS HCO3)	12	710.00	200.00	400.00	175.96	562.50	335.00	275.00
CARBONATE (MG/L AS CO3)	11	5.00	0.00	0.64	1.57	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	48	3.50	0.75	1.59	0.61	2.07	1.55	1.10
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	48	3.00	0.40	1.22	0.53	1.48	1.10	0.87
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	48	1.20	0.00	0.20	0.28	0.26	0.07	0.02
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	59	1.50	0.00	0.17	0.25	0.21	0.10	0.03
PHOSPHORUS, TOTAL (MG/L AS P)	59	0.36	0.02	0.14	0.08	0.17	0.12	0.09
PHOSPHORUS, DISSOLVED (MG/L AS P)	35	0.39	0.00	0.09	0.08	0.09	0.07	0.04
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	21	71.00	7.10	14.28	13.25	13.00	11.00	9.95
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	20	6.20	0.10	1.04	1.33	1.40	0.50	0.33
HARDNESS (MG/L AS CACO3)	35	640.00	110.00	365.71	135.22	470.00	350.00	260.00
HARDNESS, NONCARBONATE (MG/L CACO3)	34	140.00	0.00	33.97	31.79	51.50	30.00	5.50
CALCIUM, DISSOLVED (MG/L AS CA)	35	130.00	27.00	76.14	26.78	95.00	75.00	57.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	35	88.00	11.00	42.91	18.11	52.00	40.00	29.00
SODIUM, DISSOLVED (MG/L AS NA)	35	330.00	27.00	136.86	63.52	180.00	120.00	96.00
SODIUM PERCENT	35	62.00	32.00	44.91	7.09	47.00	44.00	40.00
POTASSIUM, DISSOLVED (MG/L AS K)	35	14.00	8.50	11.39	1.59	13.00	12.00	10.00
CHLORIDE, DISSOLVED (MG/L AS CL)	35	110.00	6.60	47.95	28.39	68.00	43.00	21.00
SULFATE, DISSOLVED (MG/L AS SO4)	35	550.00	82.00	264.63	101.60	320.00	240.00	190.00
FLUORIDE, DISSOLVED (MG/L AS F)	35	0.40	0.00	0.23	0.09	0.30	0.20	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	35	22.00	1.00	9.29	4.44	12.00	9.00	6.90
ARSENIC, DISSOLVED (UG/L AS AS)	5	4.00	1.00	2.40	1.14	3.50	2.00	1.50
ARSENIC, TOTAL (UG/L AS AS)	5	4.00	2.00	2.80	0.84	3.50	3.00	2.00
BARIUM, DISSOLVED (UG/L AS BA)	5	200.00	100.00	120.00	44.72	150.00	100.00	100.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	5	300.00	100.00	180.00	83.67	250.00	200.00	100.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	5	1.00	0.00	0.20	0.45	0.50	0.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	36	940.00	80.00	318.89	165.85	407.50	280.00	232.50
CHROMIUM, DISSOLVED (UG/L AS CR)	5	10.00	0.00	2.00	4.47	5.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	5	10.00	0.00	4.00	5.48	10.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	5	1.00	0.00	0.40	0.55	1.00	0.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	5	1.00	0.00	0.20	0.45	0.50	0.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	5	5.00	0.00	2.00	2.35	4.50	1.00	0.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	5	15.00	3.00	6.60	4.98	11.00	5.00	3.00
IRON, TOTAL RECOVERABLE (UG/L AS FE)	5	2300.00	420.00	1370.00	854.81	2150.00	1600.00	475.00
IRON, DISSOLVED (UG/L AS FE)	6	3200.00	10.00	630.00	1271.52	1152.50	45.00	10.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	5	230.00	50.00	116.00	69.86	175.00	110.00	60.00
MANGANESE, DISSOLVED (UG/L AS MN)	6	190.00	10.00	51.67	69.11	77.50	30.00	10.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	6	6.00	0.00	2.83	2.79	5.25	3.00	0.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	5	10.00	0.00	3.60	4.04	7.50	2.00	0.50
NICKEL, DISSOLVED (UG/L AS NI)	5	3.00	0.00	1.40	1.52	3.00	1.00	0.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	15	16.00	4.00	7.07	3.01	8.00	6.00	5.00
VANADIUM, DISSOLVED (UG/L AS V)	4	1.00	0.00					
ZINC, DISSOLVED (UG/L AS ZN)	5	10.00	3.00	8.60	3.13	10.00	10.00	6.50
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	14	40.00	0.00	25.00	11.60	32.50	25.00	20.00
ALUMINUM, DISSOLVED (UG/L AS AL)	6	50.00	0.00	20.00	22.80	42.50	15.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	5	50.00	20.00	38.00	10.95	45.00	40.00	30.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	4	60.00	20.00					
SELENIUM, DISSOLVED (UG/L AS SE)	5	1.00	0.00	0.60	0.55	1.00	1.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	5	1.00	0.00	0.20	0.45	0.50	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	58	1530.00	236.00	812.50	299.35	1047.50	740.50	590.75
SOLIDS, DISSOLVED (TONS PER AC-FT)	58	2.08	0.32	1.10	0.41	1.42	1.01	0.81
MERCURY, DISSOLVED (UG/L AS HG)	5	0.10	0.00	0.04	0.05	0.10	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	5	7.00	0.00	1.40	3.13	3.50	0.00	0.00
SEDIMENT, SUSPENDED (MG/L)	28	162.00	8.00	39.68	42.66	46.50	20.50	11.25
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	28	761.00	0.01	111.09	217.59	49.00	0.75	0.22

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	170.00	1.10	26.27	40.52	154.25	1.0	125.00	30.00	5.70	1.85	1.30
NOVEMBER	21.00	1.50	10.96	5.04	46.03	0.4	20.00	15.00	11.00	8.50	2.26
DECEMBER	15.00	3.40	8.01	3.26	40.68	0.3	13.30	10.00	8.50	4.35	3.60
JANUARY	8.50	1.60	4.12	1.53	37.04	0.2	6.75	5.10	4.30	2.90	1.60
FEBURARY	5.60	0.80	3.43	1.91	55.76	0.1	5.60	5.50	3.80	0.95	0.80
MARCH	800.00	0.90	92.64	172.67	186.39	3.4	545.00	143.50	5.40	3.20	0.90
APRIL	8450.00	70.00	973.70	1796.68	184.52	34.8	5833.50	627.50	270.00	168.50	80.00
MAY	8040.00	9.90	1198.29	1920.38	160.26	44.2	5737.99	2020.00	127.00	61.50	16.40
JUNE	799.00	2.40	150.28	178.00	118.44	5.4	552.55	200.75	90.00	5.35	2.60
JULY	1120.00	1.50	213.69	321.22	150.32	7.9	1063.00	239.50	74.00	3.00	1.67
AUGUST	168.00	0.45	38.53	43.25	112.26	1.4	144.20	54.00	27.00	1.00	0.60
SEPTEMBER	280.00	0.40	27.05	55.77	206.19	1.0	209.00	24.25	13.00	0.80	0.50
ANNUAL	8450.00	0.40	229.88	860.36	374.26	100.0	932.60	97.50	10.00	4.00	0.90

05116000 SOURIS (MOUSE) RIVER NEAR FOXHOLM, ND

LOCATION.--Lat 48°22'20", long 101°30'18", in SW¼SE¼ sec.34, T.157 N., R.84 W., Ward County, Hydrologic Unit 09010001, on left bank 30 ft (9 m) upstream from county highway bridge, 3 mi (5 km) east of Foxholm, 19 mi (31 km) upstream from Des Lacs River, and at mile 414.5 (666.9 km).

DRAINAGE AREA.--9,470 mi^2 (24,530 km^2), approximately, of which about 6,200 mi^2 (16,100 km^2) is probably noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	57	26.50	0.00	10.11	9.05	19.25	8.00	1.50
STREAMFLOW, INSTANTANEOUS (CFS)	56	5310.00	0.18	339.54	1023.50	193.25	51.00	4.60
SPECIFIC CONDUCTANCE (MICROMHOS)	57	1580.00	420.00	887.89	239.57	1045.00	870.00	765.00
OXYGEN, DISSOLVED (MG/L)	35	17.20	0.20	9.15	3.37	11.00	8.80	7.60
OXYGEN, DISSOLVED (PERCENT SATURATION)	19	142.00	0.00	72.52	33.77	87.00	71.00	60.00
PH (UNITS)	37	9.20	7.40	8.30	0.48	8.70	8.10	8.00
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	12	46.00	0.50	8.50	13.29	13.38	2.35	0.72
BICARBONATE (MG/L AS HCO3)	12	720.00	260.00	414.17	153.95	567.50	350.00	290.00
CARBONATE (MG/L AS CO3)	12	25.00	0.00	9.08	11.20	21.25	0.50	0.00
NITROGEN, TOTAL (MG/L AS N)	36	3.70	1.00	1.81	0.70	2.28	1.55	1.30
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	36	3.70	0.54	1.46	0.64	1.80	1.40	0.99
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	37	1.10	0.00	0.25	0.29	0.32	0.13	0.06
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	35	0.35	0.00	0.13	0.12	0.25	0.10	0.02
PHOSPHORUS, TOTAL (MG/L AS P)	37	0.67	0.06	0.22	0.17	0.31	0.15	0.09
PHOSPHORUS, DISSOLVED (MG/L AS P)	1	0.06	0.06					
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	8	71.00	11.00	21.87	20.09	19.25	16.00	12.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	7	1.40	0.10	0.71	0.53	1.30	0.80	0.20
HARDNESS (MG/L AS CACO3)	37	600.00	150.00	299.19	95.03	345.00	290.00	250.00
HARDNESS, NONCARBONATE (MG/L CACO3)	35	150.00	0.00	35.77	35.62	57.00	29.00	3.00
CALCIUM, DISSOLVED (MG/L AS CA)	37	110.00	33.00	59.27	16.57	69.50	55.00	47.50
MAGNESIUM, DISSOLVED (MG/L AS MG)	37	78.00	15.00	36.73	13.39	41.50	35.00	29.00
SODIUM, DISSOLVED (MG/L AS NA)	37	170.00	32.00	91.41	31.42	110.00	90.00	69.00
SODIUM PERCENT	37	48.00	30.00	39.30	4.43	42.00	40.00	36.50
POTASSIUM, DISSOLVED (MG/L AS K)	37	25.00	1.00	13.87	3.91	15.00	14.00	12.50
CHLORIDE, DISSOLVED (MG/L AS CL)	37	53.00	6.50	22.10	10.08	26.00	22.00	14.50
SULFATE, DISSOLVED (MG/L AS SO4)	37	350.00	86.00	208.00	62.08	260.00	190.00	170.00
FLUORIDE, DISSOLVED (MG/L AS F)	37	0.30	0.10	0.22	0.04	0.20	0.20	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	36	18.00	0.40	8.77	4.68	12.75	8.05	5.20
ARSENIC, TOTAL (UG/L AS AS)	11	16.00	2.00	6.55	4.48	10.00	6.00	3.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	12	300.00	0.00	100.00	85.28	100.00	100.00	25.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	12	10.00	0.00	5.83	5.15	10.00	10.00	0.00
BORON, DISSOLVED (UG/L AS B)	25	790.00	90.00	231.60	137.83	285.00	190.00	160.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	12	20.00	0.00	5.00	7.98	10.00	0.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	12	3.00	0.00	1.00	1.28	2.00	0.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	1	33.00	33.00					
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	12	11.00	2.00	4.83	2.55	5.75	4.50	3.00
IRON, TOTAL RECOVERABLE (UG/L AS FE)	12	820.00	50.00	331.67	245.65	455.00	250.00	132.50
IRON, DISSOLVED (UG/L AS FE)	36	520.00	10.00	40.83	85.30	37.50	20.00	10.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	12	1600.00	90.00	340.00	409.92	380.00	190.00	160.00
MANGANESE, DISSOLVED (UG/L AS MN)	36	3200.00	1.00	371.72	660.89	347.50	170.00	62.50
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	12	8.00	1.00	3.83	2.41	5.75	3.50	1.25
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	12	22.00	2.00	7.67	5.40	10.00	6.00	4.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	8	80.00	10.00	28.75	21.67	30.00	20.00	20.00
LITHIUM, DISSOLVED (UG/L AS LI)	1	50.00	50.00					
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	12	80.00	20.00	43.33	16.70	50.00	40.00	32.50
SELENIUM, TOTAL (UG/L AS SE)	12	1.00	0.00	0.67	0.49	1.00	1.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	37	1110.00	269.00	613.54	176.38	719.50	605.00	518.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	37	1.51	0.37	0.83	0.24	0.98	0.82	0.71
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	12	0.40	0.00	0.10	0.10	0.10	0.10	0.02
SEDIMENT, SUSPENDED (MG/L)	35	66.00	2.00	10.11	11.08	12.00	7.00	4.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	34	272.00	0.00	10.57	46.90	2.30	0.62	0.06

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	52.00	0.38	19.18	22.68	118.23	0.7	52.00	50.00	5.40	2.00	0.38
NOVEMBER	51.00	2.30	19.39	22.48	115.91	0.7	51.00	51.00	3.85	2.60	2.30
DECEMBER	76.00	1.10	21.33	25.87	121.29	0.8	69.20	48.00	5.80	2.60	1.40
JANUARY	86.00	0.25	27.52	36.09	131.15	1.1	84.00	72.00	3.00	1.90	0.29
FEBURARY	210.00	0.14	66.85	94.69	141.64	2.4	210.00	205.00	3.20	0.21	0.15
MARCH	350.00	0.21	70.29	93.36	132.82	2.7	229.00	160.00	4.50	3.65	0.25
APRIL	4080.00	0.98	523.51	1059.73	202.43	19.7	3970.00	346.25	46.00	4.20	1.60
MAY	5330.00	0.85	1385.87	2074.35	149.68	53.9	5204.00	4220.00	105.00	4.20	1.27
JUNE	1160.00	3.00	219.92	292.91	133.19	8.3	1081.50	278.50	116.00	4.50	3.20
JULY	330.00	4.80	136.03	120.58	88.65	5.3	330.00	261.00	108.00	11.00	5.01
AUGUST	330.00	2.00	87.42	120.57	137.92	3.4	330.00	174.50	10.00	6.55	4.92
SEPTEMBER	119.00	1.60	23.70	29.47	124.35	0.9	96.60	51.00	7.10	2.00	1.91
ANNUAL	5330.00	0.14	218.07	780.50	357.92	100.0	571.64	108.00	7.80	3.00	0.46

05116500 DES LACS RIVER AT FOXHOLM, ND

LOCATION.--Lat 48°22'14", long 101°34'11", in NW¼NE¼NW¼ sec.2, T.156 N., R.85 W., Ward County, Hydrologic Unit 09010002, on left bank 200 ft (60 m) upstream from county highway bridge in Foxholm, and at mile 23.0 (37.0 km).

DRAINAGE AREA.--939 mi^2 (2,432 km^2), of which about 400 mi^2 (1,040 km^2) is probably noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	48	26.00	0.00	7.24	8.30	14.37	4.25	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	47	2350.00	0.02	110.30	362.47	29.00	6.00	1.40
SPECIFIC CONDUCTANCE (MICROMHOS)	48	3000.00	210.00	1405.83	693.18	1860.00	1325.00	945.00
PH (UNITS)	18	8.90	7.30	8.16	0.43	8.50	8.10	7.87
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	15	52.00	0.70	8.59	14.46	6.70	2.70	2.30
BICARBONATE (MG/L AS HCO3)	16	812.00	115.00	410.63	173.62	509.25	393.00	282.25
CARBONATE (MG/L AS CO3)	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	18	810.00	150.00	436.11	177.04	492.50	405.00	330.00
HARDNESS, NONCARBONATE (MG/L CACO3)	18	400.00	32.00	94.89	84.82	115.00	66.00	48.75
CALCIUM, DISSOLVED (MG/L AS CA)	18	160.00	35.00	82.17	34.75	91.00	68.50	63.75
MAGNESIUM, DISSOLVED (MG/L AS MG)	18	100.00	15.00	56.11	23.14	66.25	56.50	38.75
SODIUM, DISSOLVED (MG/L AS NA)	18	290.00	17.00	166.50	73.82	220.00	170.00	117.50
SODIUM PERCENT	17	53.00	19.00	42.18	8.00	47.00	42.00	39.00
POTASSIUM, DISSOLVED (MG/L AS K)	17	37.00	7.50	15.51	7.74	20.00	12.00	9.75
CHLORIDE, DISSOLVED (MG/L AS CL)	18	46.00	5.30	25.01	11.85	33.50	24.00	15.50
SULFATE, DISSOLVED (MG/L AS SO4)	18	770.00	88.00	422.67	173.93	515.00	430.00	285.00
FLUORIDE, DISSOLVED (MG/L AS F)	18	0.40	0.10	0.23	0.09	0.30	0.20	0.17
SILICA, DISSOLVED (MG/L AS SIO2)	18	28.00	4.60	12.07	6.12	15.00	10.50	7.90
BORON, DISSOLVED (UG/L AS B)	18	640.00	0.00	187.22	150.91	245.00	175.00	92.50
IRON, DISSOLVED (UG/L AS FE)	18	710.00	10.00	113.33	174.83	152.50	40.00	20.00
MANGANESE, DISSOLVED (UG/L AS MN)	18	1200.00	10.00	257.78	352.53	255.00	125.00	87.50
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	18	1900.00	268.00	1030.78	424.52	1255.00	1020.00	745.25
SOLIDS, DISSOLVED (TONS PER AC-FT)	18	2.58	0.36	1.40	0.58	1.70	1.38	1.01

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION	PERCENT OF ANNUAL RUNOFF	95	75	MEDIAN 50	25	5
OCTOBER	50.00	1.00	14.88	18.97	127.46	3.4	44.00	35.00	2.10	1.70	1.40
NOVEMBER	30.00	0.97	9.48	11.13	117.42	2.1	28.45	22.25	2.05	1.80	1.11
DECEMBER	19.00	0.34	5.01	5.96	118.95	1.1	18.00	10.00	1.40	0.68	0.36
JANUARY	8.50	0.03	2.08	2.63	126.30	0.5	6.00	5.40	0.32	0.18	0.10
FEBURARY	3.90	0.01	1.12	1.55	137.76	0.2	3.60	3.10	0.03	0.02	0.01
MARCH	650.00	0.01	31.88	113.42	355.77	7.3	305.90	2.95	1.50	0.15	0.04
APRIL	3100.00	1.80	153.66	442.19	287.76	34.1	639.55	51.25	27.50	13.75	2.00
MAY	611.00	5.50	138.74	181.34	130.70	31.8	452.60	306.00	21.00	10.50	7.00
JUNE	246.00	2.90	55.07	72.43	131.51	12.2	221.60	103.50	8.75	5.35	3.20
JULY	58.00	0.90	13.15	14.61	111.10	3.0	43.90	24.50	5.80	1.60	0.97
AUGUST	18.00	0.69	5.18	5.85	112.87	1.2	16.30	12.00	1.20	0.94	0.80
SEPTEMBER	47.00	0.48	13.49	16.91	125.42	3.0	44.45	33.00	2.80	1.30	0.72
ANNUAL	3100.00	0.01	37.01	151.17	408.43	100.0	219.20	19.00	3.20	1.13	0.04

05117500 SOURIS (MOUSE) RIVER ABOVE MINOT, ND

LOCATION.--Lat 48°14'45", long 101°22'15", in NW¼NW¼SE¼ sec.17, T.155 N., R.83 W., Ward County, Hydrologic Unit 09010001, on right bank 180 ft (55 m) downstream from county highway bridge, 3.5 mi (5.6 km) west of Minot, 7 mi (11 km) downstream from Des Lacs River, and at mile 388.5 (625.1 km).

DRAINAGE AREA.--10,600 mi^2 (27,500 km^2), approximately, of which about 6,700 mi^2 (17,400 km^2) is probably noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	45	26.00	0.00	8.56	8.69	17.00	5.00	0.25
STREAMFLOW, INSTANTANEOUS (CFS)	42	4640.00	0.48	510.69	1283.43	173.25	47.00	6.67
SPECIFIC CONDUCTANCE (MICROMHOS)	45	1800.00	330.00	1041.55	345.48	1200.00	1020.00	835.00
PH (UNITS)	6	8.40	8.10	8.15	0.12	8.18	8.10	8.10
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	5	5.20	2.30	3.46	1.30	4.85	2.80	2.40
BICARBONATE (MG/L AS HCO3)	5	409.00	179.00	298.40	102.05	402.00	286.00	201.00
CARBONATE (MG/L AS CO3)	5	33.00	0.00	6.60	14.76	16.50	0.00	0.00
HARDNESS (MG/L AS CACO3)	6	370.00	180.00	298.33	78.08	362.50	320.00	225.00
HARDNESS, NONCARBONATE (MG/L CACO3)	6	59.00	0.00	27.50	23.19	41.75	35.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	6	74.00	38.00	57.83	15.61	71.75	59.50	43.25
MAGNESIUM, DISSOLVED (MG/L AS MG)	6	45.00	21.00	37.67	10.25	45.00	43.00	27.00
SODIUM, DISSOLVED (MG/L AS NA)	6	140.00	59.00	103.50	36.27	140.00	109.50	62.00
SODIUM PERCENT	6	44.00	35.00	41.00	3.35	44.00	41.50	38.75
POTASSIUM, DISSOLVED (MG/L AS K)	6	16.00	8.90	11.65	2.82	14.50	11.00	8.97
CHLORIDE, DISSOLVED (MG/L AS CL)	6	29.00	10.00	18.67	7.06	26.00	16.50	13.75
SULFATE, DISSOLVED (MG/L AS SO4)	6	310.00	150.00	238.33	76.00	310.00	245.00	165.00
FLUORIDE, DISSOLVED (MG/L AS F)	6	0.20	0.10	0.15	0.05	0.20	0.15	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	6	19.00	5.80	11.72	4.65	15.25	11.45	7.90
BORON, DISSOLVED (UG/L AS B)	6	270.00	30.00	168.33	104.96	262.50	195.00	52.50
IRON, DISSOLVED (UG/L AS FE)	6	80.00	0.00	30.00	32.25	65.00	15.00	7.50
MANGANESE, DISSOLVED (UG/L AS MN)	6	910.00	100.00	431.67	345.16	797.50	360.00	100.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	6	854.00	404.00	666.67	201.90	842.75	715.00	455.75
SOLIDS, DISSOLVED (TONS PER AC-FT)	6	1.16	0.55	0.90	0.27	1.15	0.97	0.62

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	98.00	3.50	35.19	21.75	61.82	1.1	55.00	51.00	48.00	8.75	4.50
NOVEMBER	53.00	3.50	28.21	18.35	65.06	0.9	51.00	44.00	37.00	4.50	4.00
DECEMBER	62.00	2.50	22.69	21.34	94.05	0.7	62.00	44.00	12.00	4.75	2.50
JANUARY	82.00	0.80	27.30	33.97	124.43	0.9	82.00	72.00	5.50	1.90	1.34
FEBURARY	220.00	0.50	66.17	92.43	139.69	1.9	213.50	195.00	6.30	0.80	0.50
MARCH	1050.00	0.90	118.03	204.92	173.62	3.8	639.00	160.00	15.00	6.00	0.90
APRIL	4700.00	20.00	709.57	1375.52	193.85	22.1	4622.50	330.00	141.50	50.00	29.55
MAY	5920.00	7.30	1571.40	2268.33	144.35	50.6	5726.00	4635.00	110.00	27.50	8.49
JUNE	1420.00	2.40	283.26	379.08	133.82	8.8	1323.50	391.50	113.00	7.13	2.82
JULY	568.00	1.30	150.39	136.37	90.67	4.8	328.60	293.00	113.00	8.35	1.80
AUGUST	334.00	7.30	99.01	119.66	120.86	3.2	332.00	182.00	24.00	13.50	8.00
SEPTEMBER	128.00	5.40	36.91	26.27	71.17	1.1	111.35	48.00	38.00	14.75	6.72
ANNUAL	5920.00	0.50	263.75	893.14	338.63	100.0	914.99	116.00	43.00	6.53	1.60

06329597 CHARBONNEAU CREEK NEAR CHARBONNEAU, ND

LOCATION.--Lat 47°51'10", long 103°47'40", in SW¼ sec.31, T.151 N., R.102 W., McKenzie County, Hydrologic Unit 10100004, Little Missouri National Grassland on right bank, 45 ft (14 m) downstream from county highway bridge, and 1.5 mi (2.4 km) west of Charbonneau.

DRAINAGE AREA.--149 mi^2 (386 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	46	28.00	0.00	7.88	8.66	15.87	5.25	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	46	1460.00	0.00	99.74	278.34	16.50	1.00	0.37
SPECIFIC CONDUCTANCE (MICROMHOS)	45	3800.00	200.00	1904.44	1106.84	2825.00	2170.00	735.00
PH (UNITS)	13	8.80	7.50	8.25	0.32	8.40	8.30	8.10
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	12	12.00	1.00	5.52	3.55	7.82	5.75	2.00
BICARBONATE (MG/L AS HCO3)	13	1570.00	89.00	763.77	444.67	1110.00	784.00	358.50
CARBONATE (MG/L AS CO3)	13	50.00	0.00	9.69	14.04	15.50	6.00	0.00
HARDNESS (MG/L AS CACO3)	13	260.00	60.00	165.85	66.03	210.00	190.00	88.00
HARDNESS, NONCARBONATE (MG/L CACO3)	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	13	38.00	12.00	25.92	9.18	33.00	30.00	16.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	13	41.00	5.50	24.48	11.44	33.50	26.00	12.00
SODIUM, DISSOLVED (MG/L AS NA)	13	970.00	18.00	516.38	313.71	780.00	560.00	230.00
SODIUM PERCENT	13	90.00	33.00	79.08	18.16	88.00	86.00	81.50
POTASSIUM, DISSOLVED (MG/L AS K)	13	10.00	5.30	7.82	1.49	9.15	8.00	6.70
CHLORIDE, DISSOLVED (MG/L AS CL)	13	15.00	0.70	7.08	3.33	7.50	6.90	5.80
SULFATE, DISSOLVED (MG/L AS SO4)	13	1100.00	42.00	636.23	359.13	940.00	760.00	300.00
FLUORIDE, DISSOLVED (MG/L AS F)	13	1.10	0.10	0.58	0.32	0.85	0.60	0.25
SILICA, DISSOLVED (MG/L AS SIO2)	13	16.00	4.40	8.08	3.30	9.75	8.80	5.20
BORON, DISSOLVED (UG/L AS B)	13	440.00	0.00	206.15	117.30	290.00	210.00	110.00
IRON, DISSOLVED (UG/L AS FE)	13	890.00	20.00	182.31	225.10	210.00	120.00	60.00
MANGANESE, DISSOLVED (UG/L AS MN)	13	120.00	0.00	63.08	27.50	80.00	60.00	50.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	13	3010.00	147.00	1628.77	909.43	2365.00	1820.00	803.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	13	4.09	0.20	2.21	1.24	3.21	2.48	1.09

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION	PERCENT OF ANNUAL RUNOFF	95	75	MEDIAN 50	25	5
OCTOBER	1.20	0.09	0.53	0.29	53.62	0.2	1.13	0.64	0.48	0.42	0.11
NOVEMBER	1.40	0.50	0.74	0.20	26.75	0.3	1.04	0.90	0.70	0.60	0.50
DECEMBER	1.50	0.30	0.70	0.22	30.82	0.3	1.03	0.80	0.75	0.55	0.39
JANUARY	0.70	0.00	0.42	0.23	53.91	0.2	0.70	0.60	0.50	0.18	0.00
FEBURARY	1.50	0.05	0.44	0.31	70.28	0.2	1.27	0.55	0.45	0.35	0.05
MARCH	1600.00	0.40	103.34	270.21	261.48	45.5	892.10	37.50	4.90	0.83	0.49
APRIL	4170.00	0.20	111.04	486.13	437.80	47.4	689.25	20.75	5.95	1.90	0.24
MAY	50.00	0.00	3.33	6.22	186.87	1.5	11.80	3.65	1.90	0.24	0.01
JUNE	210.00	0.00	5.79	24.45	422.39	2.5	19.85	2.10	1.00	0.56	0.02
JULY	70.00	0.00	3.59	10.20	283.85	1.6	29.00	1.60	0.39	0.02	0.00
AUGUST	3.70	0.00	0.41	0.51	123.67	0.2	1.30	0.45	0.26	0.15	0.00
SEPTEMBER	5.80	0.00	0.39	0.80	206.67	0.2	1.71	0.31	0.15	0.09	0.03
ANNUAL	4170.00	0.00	19.25	164.19	852.83	100.0	26.15	1.30	0.59	0.28	0.02

06331000 LITTLE MUDDY RIVER BELOW COW CREEK NEAR WILLISTON, ND

LOCATION.--Lat 48°17'04", long 103°34'21", in NE¼NW¼ sec.5, T.155 N., R.100 W., Williams County, Hydrologic Unit 10110102, on left bank 37 ft (11 m) downstream from centerline of highway, 1 mi (2 km) downstream from Cow Creek, 4 mi (6 km) upstream from Camp Creek, 10 mi (16 km) northeast of Williston, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--875 mi^2 (2,266 km^2), approximately, of which about 100 mi^2 (260 km^2) is probably noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	41	24.00	0.00	7.91	8.04	16.00	5.00	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	41	5900.00	4.10	223.72	927.78	33.50	12.00	7.80
SPECIFIC CONDUCTANCE (MICROMHOS)	41	2400.00	235.00	1741.22	605.22	2130.00	1950.00	1555.00
PH (UNITS)	17	10.60	7.60	8.36	0.66	8.50	8.30	7.90
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	17	38.00	0.00	8.43	9.87	12.50	4.50	2.65
BICARBONATE (MG/L AS HCO3)	17	939.00	115.00	624.41	230.59	751.50	683.00	507.00
CARBONATE (MG/L AS CO3)	17	19.00	0.00	2.47	5.71	0.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	17	560.00	86.00	393.88	129.58	480.00	420.00	345.00
HARDNESS, NONCARBONATE (MG/L CACO3)	17	7.00	0.00	0.41	1.70	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	17	120.00	13.00	68.59	28.64	91.00	65.00	49.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	17	69.00	13.00	54.06	16.95	63.00	63.00	49.50
SODIUM, DISSOLVED (MG/L AS NA)	17	420.00	14.00	290.82	119.39	375.00	330.00	235.00
SODIUM PERCENT	17	70.00	24.00	57.76	10.52	64.00	60.00	56.00
POTASSIUM, DISSOLVED (MG/L AS K)	17	13.00	6.80	9.59	1.59	11.00	10.00	8.45
CHLORIDE, DISSOLVED (MG/L AS CL)	17	14.00	2.10	7.78	3.36	9.45	8.20	5.30
SULFATE, DISSOLVED (MG/L AS SO4)	17	680.00	23.00	494.29	183.47	600.00	560.00	455.00
FLUORIDE, DISSOLVED (MG/L AS F)	17	0.40	0.10	0.25	0.11	0.30	0.30	0.15
SILICA, DISSOLVED (MG/L AS SIO2)	17	29.00	7.20	14.64	6.29	19.50	14.00	9.70
BORON, DISSOLVED (UG/L AS B)	17	640.00	0.00	317.06	216.50	545.00	290.00	175.00
IRON, DISSOLVED (UG/L AS FE)	17	530.00	0.00	153.53	126.14	190.00	120.00	80.00
MANGANESE, DISSOLVED (UG/L AS MN)	17	220.00	0.00	69.41	78.22	135.00	30.00	10.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	17	1800.00	132.00	1263.53	458.62	1540.00	1400.00	1110.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	17	2.45	0.18	1.72	0.62	2.09	1.90	1.51

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	14.00	8.30	11.04	1.79	16.22	1.7	13.00	13.00	11.00	9.30	8.50
NOVEMBER	16.00	10.00	13.27	1.52	11.46	2.0	16.00	14.00	13.00	13.00	10.00
DECEMBER	13.00	8.50	10.52	1.08	10.31	1.7	13.00	11.00	10.00	10.00	9.00
JANUARY	10.00	4.40	7.17	1.33	18.52	1.1	9.66	7.60	7.20	6.50	4.74
FEBURARY	8.00	4.20	6.61	1.18	17.89	1.0	7.80	7.50	7.00	5.75	4.40
MARCH	1090.00	6.00	94.72	226.48	239.09	14.9	739.50	28.00	11.00	7.70	6.50
APRIL	6610.00	13.00	355.79	1117.84	314.19	54.2	2250.49	140.25	34.00	28.00	15.00
MAY	183.00	8.00	45.00	43.11	95.79	7.1	151.50	61.50	28.00	12.00	8.50
JUNE	221.00	6.70	23.19	28.89	124.62	3.5	62.55	24.00	19.00	7.60	6.70
JULY	1950.00	5.10	62.51	235.42	376.63	9.8	365.00	20.00	11.00	5.90	5.30
AUGUST	13.00	5.00	8.36	1.68	20.07	1.3	12.00	9.30	8.20	7.45	5.47
SEPTEMBER	22.00	7.00	10.08	3.12	30.91	1.5	16.90	11.00	8.90	8.00	7.46
ANNUAL	6610.00	4.20	53.86	345.87	642.18	100.0	106.00	16.00	10.00	7.80	5.59

06331570 STONY CREEK NEAR WILLISTON, ND

LOCATION.--Lat 48°09'16", long 103°34'27", in SE¼SE¼SW¼ sec.17, T.154 N., R.100 W., Williams County, Hydrologic Unit 10110101, on left bank at the Hardy Salt Company plant, 1.2 mi (1.9 km) upstream from bridge on State Highway 1804, 3.1 mi (5.0 km) upstream from mouth, and 1.4 mi (2.3 km) east of Williston.

DRAINAGE AREA.--146 mi^2 (378 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	29	26.50	0.00	8.76	9.84	20.00	4.00	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	29	2820.00	0.02	111.79	524.56	5.65	0.80	0.44
SPECIFIC CONDUCTANCE (MICROMHOS)	25	2800.00	240.00	1873.00	716.00	2530.00	2120.00	1250.00
OXYGEN, DISSOLVED (MG/L)	25	12.70	5.30	10.60	2.12	12.15	11.30	9.70
OXYGEN, DISSOLVED (PERCENT SATURATION)	25	147.00	64.00	93.12	16.94	98.00	91.00	85.00
PH (UNITS)	25	8.70	8.00	8.36	0.17	8.45	8.40	8.25
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	23	18.00	2.20	5.11	3.43	6.40	4.30	3.00
BICARBONATE (MG/L AS HCO3)	23	1140.00	270.00	686.52	264.04	954.00	695.00	458.00
CARBONATE (MG/L AS CO3)	23	33.00	0.00	8.74	11.22	19.00	4.00	0.00
NITROGEN, TOTAL (MG/L AS N)	25	3.80	0.79	1.31	0.72	1.35	1.10	0.95
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	25	2.80	0.60	1.01	0.49	1.10	0.89	0.76
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	25	0.50	0.00	0.11	0.13	0.13	0.08	0.02
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	25	0.86	0.00	0.19	0.23	0.28	0.10	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	25	0.45	0.02	0.10	0.10	0.12	0.07	0.05
PHOSPHORUS, DISSOLVED (MG/L AS P)	25	0.82	0.00	0.07	0.16	0.05	0.02	0.02
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	25	97.00	8.30	18.44	18.05	17.50	13.00	10.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	24	13.00	0.30	1.68	2.46	1.55	1.15	0.80
HARDNESS (MG/L AS CACO3)	25	390.00	75.00	277.00	81.47	340.00	290.00	215.00
HARDNESS, NONCARBONATE (MG/L CACO3)	23	26.00	0.00	1.13	5.42	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	25	63.00	16.00	44.80	11.64	55.00	46.00	38.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	25	63.00	8.50	39.90	13.43	50.50	41.00	29.00
SODIUM, DISSOLVED (MG/L AS NA)	25	590.00	20.00	359.20	168.03	520.00	420.00	225.00
SODIUM PERCENT	25	89.00	34.00	70.08	12.65	77.50	75.00	65.00
POTASSIUM, DISSOLVED (MG/L AS K)	25	17.00	5.80	10.18	2.26	11.00	10.00	9.20
CHLORIDE, DISSOLVED (MG/L AS CL)	25	13.00	1.90	7.38	2.84	9.20	7.70	5.20
SULFATE, DISSOLVED (MG/L AS SO4)	25	800.00	47.00	487.88	194.90	650.00	550.00	325.00
FLUORIDE, DISSOLVED (MG/L AS F)	25	0.70	0.10	0.37	0.17	0.50	0.40	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	25	18.00	5.40	10.84	3.23	12.00	11.00	8.75
ARSENIC, DISSOLVED (UG/L AS AS)	9	5.00	1.00	2.89	1.54	4.50	3.00	1.50
ARSENIC, TOTAL (UG/L AS AS)	7	5.00	2.00	3.71	1.11	5.00	4.00	3.00
BARIUM, DISSOLVED (UG/L AS BA)	9	200.00	0.00	114.44	72.30	200.00	100.00	65.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	7	300.00	0.00	157.14	113.39	300.00	100.00	100.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	9	3.00	0.00	0.44	1.01	0.50	0.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	7	5.00	0.00	0.71	1.89	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	24	400.00	60.00	271.67	94.90	350.00	315.00	190.00
CHROMIUM, DISSOLVED (UG/L AS CR)	9	10.00	0.00	1.56	3.43	2.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	7	20.00	0.00	9.29	6.07	10.00	10.00	5.00
COBALT, DISSOLVED (UG/L AS CO)	9	8.00	0.00	1.44	2.70	2.50	0.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	7	7.00	0.00	2.43	2.70	4.00	2.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	9	25.00	1.00	8.22	7.12	10.00	8.00	3.50
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	7	58.00	3.00	14.86	19.50	16.00	8.00	4.00
IRON, DISSOLVED (UG/L AS FE)	25	270.00	10.00	78.80	64.31	90.00	60.00	40.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	7	630.00	120.00	220.00	182.76	190.00	160.00	130.00
MANGANESE, DISSOLVED (UG/L AS MN)	9	140.00	20.00	53.33	34.64	55.00	50.00	35.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	9	25.00	0.00	4.89	8.13	6.50	2.00	0.50
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	7	76.00	1.00	14.29	27.29	7.00	4.00	3.00
NICKEL, DISSOLVED (UG/L AS NI)	9	5.00	0.00	3.11	1.76	5.00	3.00	2.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	7	26.00	4.00	9.71	7.41	10.00	7.00	6.00
VANADIUM, DISSOLVED (UG/L AS V)	9	8.00	0.00	2.40	2.40	3.35	1.90	1.00
ZINC, DISSOLVED (UG/L AS ZN)	9	20.00	0.00	13.56	8.03	20.00	19.00	6.50
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	7	120.00	10.00	34.29	39.52	40.00	20.00	10.00
ALUMINUM, DISSOLVED (UG/L AS AL)	9	60.00	0.00	20.00	23.98	45.00	10.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	9	80.00	0.00	50.89	27.42	70.00	60.00	25.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	7	80.00	20.00	48.57	20.35	60.00	50.00	30.00
SELENIUM, DISSOLVED (UG/L AS SE)	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	7	1.00	0.00	0.14	0.38	0.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	25	1930.00	156.00	1282.64	510.97	1770.00	1470.00	798.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	25	2.62	0.21	1.74	0.70	2.41	2.00	1.09
MERCURY, DISSOLVED (UG/L AS HG)	9	0.30	0.00	0.07	0.10	0.10	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	7	0.30	0.00	0.09	0.11	0.10	0.10	0.00
SEDIMENT, SUSPENDED (MG/L)	29	1370.00	16.00	149.59	273.43	105.00	72.00	51.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	29	10400.00	0.00	583.34	1930.74	1.09	0.16	0.08

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	0.70	0.00	0.21	0.21	101.42	0.2	0.60	0.41	0.10	0.00	0.00
NOVEMBER	0.53	0.07	0.28	0.12	43.29	0.2	0.48	0.38	0.29	0.20	0.07
DECEMBER	0.60	0.02	0.26	0.17	63.96	0.2	0.56	0.40	0.25	0.10	0.05
JANUARY	0.20	0.00	0.05	0.07	145.21	0.0	0.19	0.10	0.00	0.00	0.00
FEBURARY	0.50	0.00	0.03	0.09	335.15	0.0	0.27	0.00	0.00	0.00	0.00
MARCH	400.00	0.00	26.22	79.89	304.73	22.3	265.00	1.65	0.90	0.04	0.00
APRIL	2810.00	0.17	81.80	347.67	425.02	67.5	313.65	20.25	7.25	2.28	0.36
MAY	36.00	0.00	4.60	6.61	143.71	3.9	19.00	6.75	1.70	0.01	0.00
JUNE	8.40	0.00	1.33	1.58	118.91	1.1	4.89	1.83	1.10	0.00	0.00
JULY	109.00	0.00	5.08	18.31	360.64	4.3	39.60	0.67	0.24	0.00	0.00
AUGUST	0.24	0.00	0.05	0.07	126.49	0.0	0.18	0.12	0.00	0.00	0.00
SEPTEMBER	0.77	0.00	0.11	0.21	186.07	0.1	0.60	0.10	0.00	0.00	0.00
ANNUAL	2810.00	0.00	9.95	104.43	1049.11	100.0	16.00	0.60	0.15	0.00	0.00

06331680 TOBACCO GARDEN CREEK NEAR WATFORD CITY, ND

LOCATION.--Lat 47°59'33", long 103°09'57", McKenzie County, Hydrologic Unit 10110101, in SE¼SW¼ sec. 12, T.152 N., R.98 W., on left bank at downstream side of bridge on county highway, 14 mi (22 km) northeast of Watford City.

DRAINAGE AREA.--135 mi^2 (350 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	45	26.00	0.00	8.82	8.44	17.75	7.00	1.25
STREAMFLOW, INSTANTANEOUS (CFS)	45	2370.00	0.29	95.95	375.49	12.70	1.10	0.51
SPECIFIC CONDUCTANCE (MICROMHOS)	45	4200.00	210.00	2217.44	1179.68	3045.00	2800.00	1185.00
PH (UNITS)	25	11.20	7.50	8.47	0.66	8.60	8.40	8.20
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	25	62.00	0.00	9.12	12.75	10.20	5.70	2.25
BICARBONATE (MG/L AS HCO3)	25	1350.00	115.00	890.68	341.40	1120.00	1030.00	574.00
CARBONATE (MG/L AS CO3)	25	43.00	0.00	8.72	12.79	17.50	0.00	0.00
HARDNESS (MG/L AS CACO3)	25	340.00	52.00	214.48	74.10	265.00	250.00	160.00
HARDNESS, NONCARBONATE (MG/L CACO3)	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	25	55.00	12.00	36.04	11.87	44.50	39.00	27.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	25	49.00	5.40	30.28	12.35	40.50	32.00	19.50
SODIUM, DISSOLVED (MG/L AS NA)	25	780.00	26.00	554.24	234.04	720.00	690.00	335.00
SODIUM PERCENT	25	90.00	49.00	81.52	9.18	85.50	84.00	81.00
POTASSIUM, DISSOLVED (MG/L AS K)	25	12.00	5.70	8.72	1.65	9.80	8.60	7.60
CHLORIDE, DISSOLVED (MG/L AS CL)	25	20.00	1.50	5.99	3.60	6.95	5.80	3.75
SULFATE, DISSOLVED (MG/L AS SO4)	25	1000.00	21.00	650.04	273.83	835.00	750.00	440.00
FLUORIDE, DISSOLVED (MG/L AS F)	25	1.00	0.00	0.43	0.22	0.60	0.40	0.30
SILICA, DISSOLVED (MG/L AS SIO2)	25	30.00	5.70	13.28	6.08	16.00	14.00	8.75
BORON, DISSOLVED (UG/L AS B)	25	1200.00	10.00	378.40	240.32	485.00	360.00	225.00
IRON, DISSOLVED (UG/L AS FE)	25	1300.00	0.00	277.20	323.66	310.00	160.00	50.00
MANGANESE, DISSOLVED (UG/L AS MN)	25	600.00	0.00	100.40	139.57	115.00	50.00	30.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	25	2550.00	119.00	1770.48	694.59	2260.00	2130.00	1160.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	25	3.47	0.16	2.41	0.95	3.07	2.90	1.57

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	13.00	0.27	1.18	1.53	129.98	0.8	2.64	1.20	0.95	0.63	0.32
NOVEMBER	1.70	0.60	1.05	0.22	20.65	0.7	1.30	1.20	1.10	0.87	0.68
DECEMBER	1.10	0.54	0.74	0.12	15.93	0.5	0.92	0.80	0.75	0.65	0.57
JANUARY	0.70	0.00	0.47	0.19	40.34	0.3	0.70	0.60	0.55	0.45	0.01
FEBURARY	0.45	0.00	0.24	0.18	73.23	0.2	0.45	0.40	0.32	0.00	0.00
MARCH	1300.00	0.00	65.73	217.50	330.92	46.4	582.00	3.25	0.65	0.34	0.00
APRIL	1930.00	0.87	57.59	232.99	404.58	39.3	206.00	13.25	6.80	3.28	1.15
MAY	53.00	0.22	4.39	8.44	192.24	3.1	13.34	5.00	2.10	0.95	0.27
JUNE	110.00	0.22	4.07	13.89	341.30	2.8	22.70	1.50	0.62	0.48	0.31
JULY	245.00	0.27	7.46	36.16	484.93	5.3	28.50	0.55	0.46	0.40	0.31
AUGUST	2.70	0.02	0.39	0.38	98.29	0.3	1.12	0.38	0.32	0.25	0.14
SEPTEMBER	3.20	0.09	0.55	0.49	87.93	0.4	1.60	0.70	0.45	0.27	0.15
ANNUAL	1930.00	0.00	12.03	94.98	789.40	100.0	11.15	1.20	0.03	0.38	0.15

06331850 BEAVER CREEK NEAR RAY, ND

LOCATION.--Lat 48°10'52", long 103°11'26", in SW¼SE¼SE¼ sec.33, T.155 N., R.96 W., Williams County, Hydrologic Unit 10110101, on left bank 40 ft (12 m) upstream from bridge on North Dakota State Highway 1804, 12 mi (19 km) southeast of Ray, and 1.4 mi (2.3 km) upstream from mouth.

DRAINAGE AREA.--102 mi^2 (264 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	35	28.00	0.00	10.67	9.59	19.00	8.50	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	35	127.00	0.13	7.93	24.63	2.40	1.10	0.57
SPECIFIC CONDUCTANCE (MICROMHOS)	33	2400.00	505.00	1883.42	439.73	2115.00	2050.00	1815.00
OXYGEN, DISSOLVED (MG/L)	33	13.80	7.60	10.62	1.65	11.80	10.70	9.55
OXYGEN, DISSOLVED (PERCENT SATURATION)	33	182.00	14.30	95.22	24.63	105.50	97.00	88.50
PH (UNITS)	33	8.60	7.90	8.27	0.21	8.45	8.30	8.05
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	33	15.00	2.40	5.82	3.48	7.15	4.30	3.15
BICARBONATE (MG/L AS HCO3)	33	770.00	183.00	595.45	134.85	683.00	610.00	557.50
CARBONATE (MG/L AS CO3)	33	31.00	0.00	4.10	7.29	7.50	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	33	2.80	0.36	0.88	0.55	0.96	0.79	0.55
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	33	2.60	0.29	0.72	0.41	0.88	0.64	0.49
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	33	0.20	0.00	0.05	0.05	0.07	0.04	0.01
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	33	1.50	0.00	0.11	0.27	0.09	0.02	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	33	0.24	0.00	0.05	0.05	0.06	0.04	0.02
PHOSPHORUS, DISSOLVED (MG/L AS P)	33	0.14	0.00	0.03	0.03	0.03	0.02	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	33	40.00	5.20	12.84	7.02	16.00	11.00	8.05
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	28	52.00	0.10	2.85	9.72	1.25	0.50	0.40
HARDNESS (MG/L AS CACO3)	33	590.00	140.00	426.06	94.01	485.00	440.00	400.00
HARDNESS, NONCARBONATE (MG/L CACO3)	33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	33	90.00	28.00	66.12	13.82	75.00	67.00	59.50
MAGNESIUM, DISSOLVED (MG/L AS MG)	33	92.00	17.00	63.27	15.55	72.50	67.00	59.00
SODIUM, DISSOLVED (MG/L AS NA)	33	390.00	53.00	306.03	84.31	350.00	340.00	290.00
SODIUM PERCENT	33	83.00	42.00	61.61	8.94	63.50	60.00	58.50
POTASSIUM, DISSOLVED (MG/L AS K)	33	12.00	7.90	10.05	0.99	11.00	10.00	9.35
CHLORIDE, DISSOLVED (MG/L AS CL)	33	23.00	5.40	12.65	4.25	15.50	12.00	9.75
SULFATE, DISSOLVED (MG/L AS SO4)	33	730.00	100.00	560.91	150.69	640.00	610.00	535.00
FLUORIDE, DISSOLVED (MG/L AS F)	33	0.50	0.10	0.30	0.10	0.30	0.30	0.30
SILICA, DISSOLVED (MG/L AS SIO2)	33	20.00	4.60	13.17	4.02	16.00	14.00	10.25
ARSENIC, DISSOLVED (UG/L AS AS)	10	5.00	1.00	2.30	1.16	3.00	2.00	1.75
ARSENIC, TOTAL (UG/L AS AS)	6	3.00	2.00	2.67	0.52	3.00	3.00	2.00
BARIUM, DISSOLVED (UG/L AS BA)	10	300.00	0.00	82.00	98.30	125.00	40.00	7.50
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	6	300.00	0.00	100.00	126.49	225.00	50.00	0.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	10	10.00	0.00	2.60	4.01	4.75	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	6	10.00	0.00	1.67	4.08	2.50	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	33	370.00	100.00	275.45	60.99	320.00	290.00	250.00
CHROMIUM, DISSOLVED (UG/L AS CR)	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	6	10.00	0.00	2.50	4.18	6.25	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	10	8.00	0.00	1.90	2.56	3.00	1.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	6	5.00	0.00	0.83	2.04	1.25	0.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	10	25.00	0.00	7.50	7.14	10.00	6.00	3.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	6	14.00	2.00	7.17	4.71	11.75	6.50	2.75
IRON, DISSOLVED (UG/L AS FE)	33	97.00	0.00	38.33	22.41	45.00	34.00	25.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	190.00	30.00	100.00	57.62	152.50	90.00	52.50
MANGANESE, DISSOLVED (UG/L AS MN)	10	110.00	20.00	53.40	35.78	100.00	37.00	27.50
MOLYBDENUM, DISSOLVED (UG/L AS MO)	10	25.00	0.00	5.70	8.18	10.00	1.00	0.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	6	5.00	0.00	2.00	1.90	3.50	2.00	0.00
NICKEL, DISSOLVED (UG/L AS NI)	10	6.00	0.00	2.40	1.65	3.00	2.50	1.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	6	11.00	1.00	6.50	4.68	11.00	7.00	1.75
VANADIUM, DISSOLVED (UG/L AS V)	10	8.00	0.00	2.10	2.77	3.75	1.00	0.00
ZINC, DISSOLVED (UG/L AS ZN)	10	22.00	0.00	11.30	7.15	20.00	10.00	7.25
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	6	50.00	10.00	25.00	15.17	35.00	25.00	10.00
ALUMINUM, DISSOLVED (UG/L AS AL)	10	50.00	0.00	12.00	16.87	22.50	5.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	10	100.00	10.00	68.20	28.54	90.00	80.00	46.50
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	6	90.00	20.00	65.00	25.88	82.50	75.00	42.50
SELENIUM, DISSOLVED (UG/L AS SE)	10	1.00	0.00	0.10	0.32	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	6	1.00	0.00	0.17	0.41	0.25	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	32	1690.00	326.00	1317.47	325.22	1490.00	1425.00	1245.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	33	2.33	0.44	1.81	0.45	2.03	1.94	1.75
MERCURY, DISSOLVED (UG/L AS HG)	10	0.40	0.00	0.11	0.17	0.25	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	6	0.20	0.00	0.07	0.08	0.13	0.05	0.00
SEDIMENT, SUSPENDED (MG/L)	35	180.00	7.00	44.09	39.06	61.00	25.00	15.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	35	28.00	0.01	1.55	5.80	0.21	0.11	0.04

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	2.10	0.65	1.24	0.49	39.13	1.6	2.00	1.80	0.99	0.86	0.72
NOVEMBER	2.40	0.40	1.12	0.49	43.86	1.4	2.10	1.40	0.98	0.80	0.49
DECEMBER	3.40	0.14	1.01	0.57	56.50	1.3	2.06	1.20	0.90	0.60	0.40
JANUARY	1.80	0.30	0.86	0.49	56.82	1.1	1.80	1.35	0.60	0.50	0.34
FEBURARY	1.20	0.20	0.59	0.36	61.87	0.7	1.20	1.00	0.50	0.20	0.20
MARCH	200.00	0.00	12.49	33.78	270.58	15.9	90.00	1.70	1.10	0.28	0.00
APRIL	1200.00	1.20	50.24	180.74	359.76	61.9	156.75	19.75	8.80	5.15	1.46
MAY	30.00	0.60	5.64	5.82	103.10	7.2	19.00	7.10	3.70	1.30	0.65
JUNE	19.00	0.15	2.16	2.59	120.00	2.7	4.60	2.45	1.60	0.75	0.40
JULY	130.00	0.09	3.70	16.22	438.16	4.7	11.20	1.20	0.65	0.44	0.15
AUGUST	2.50	0.25	0.64	0.29	45.04	0.8	1.03	0.72	0.61	0.48	0.35
SEPTEMBER	1.60	0.12	0.60	0.27	44.69	0.7	1.10	0.72	0.60	0.41	0.18
ANNUAL	1200.00	0.00	6.66	54.38	816.51	100.0	15.00	1.80	0.92	0.59	0.20

06332000 WHITE EARTH RIVER AT WHITE EARTH, ND

LOCATION.--Lat 48°22'35", long 102°46'00", in SE¼SW¼ sec.36, T.157 N., R.94 W., Mountrail County, Hydrologic Unit 10110101, 35 ft (11 m) upstream from bridge on county highway, and 0.2 mi (0.3 km) east of White Earth.

DRAINAGE AREA.--780 mi^2 (2,020 km^2), approximately, of which about 290 mi^2 (750 km^2) is probably noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	46	23.00	0.00	6.97	7.72	14.25	3.50	0.38
STREAMFLOW, INSTANTANEOUS (CFS)	46	3540.00	1.20	196.83	605.65	69.50	6.20	2.65
SPECIFIC CONDUCTANCE (MICROMHOS)	46	2550.00	360.00	1635.54	626.22	2062.50	1887.50	1237.50
PH (UNITS)	15	9.00	8.00	8.39	0.25	8.50	8.40	8.30
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	14	9.60	0.40	5.00	2.98	7.37	5.30	1.47
BICARBONATE (MG/L AS HCO3)	15	1040.00	132.00	765.13	292.95	969.00	881.00	618.00
CARBONATE (MG/L AS CO3)	15	20.00	0.00	3.93	6.28	10.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	15	340.00	110.00	251.33	67.91	310.00	260.00	220.00
HARDNESS, NONCARBONATE (MG/L CACO3)	15	2.00	0.00	0.13	0.52	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	15	48.00	16.00	36.00	9.31	45.00	38.00	28.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	15	67.00	17.00	39.20	13.05	48.00	40.00	31.00
SODIUM, DISSOLVED (MG/L AS NA)	15	550.00	31.00	375.47	162.18	500.00	420.00	280.00
SODIUM PERCENT	15	85.00	36.00	71.33	14.00	80.00	77.00	63.00
POTASSIUM, DISSOLVED (MG/L AS K)	15	8.90	4.30	6.77	1.30	8.20	6.80	5.90
CHLORIDE, DISSOLVED (MG/L AS CL)	15	64.00	9.60	38.17	17.30	56.00	41.00	23.00
SULFATE, DISSOLVED (MG/L AS SO4)	15	530.00	70.00	381.33	131.14	460.00	420.00	360.00
FLUORIDE, DISSOLVED (MG/L AS F)	15	0.90	0.00	0.37	0.22	0.50	0.40	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	15	26.00	6.30	15.39	5.67	20.00	15.00	12.00
BORON, DISSOLVED (UG/L AS B)	15	680.00	120.00	414.67	174.88	530.00	460.00	260.00
IRON, DISSOLVED (UG/L AS FE)	15	1700.00	20.00	242.00	416.79	180.00	130.00	60.00
MANGANESE, DISSOLVED (UG/L AS MN)	15	260.00	20.00	104.00	81.40	150.00	80.00	30.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	15	1740.00	197.00	1293.40	459.64	1640.00	1430.00	1170.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	15	2.37	0.27	1.76	0.62	2.23	1.94	1.59

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	12.00	2.20	4.66	1.74	37.31	1.1	7.80	5.40	4.30	3.50	2.30
NOVEMBER	12.00	2.00	5.13	2.80	54.49	1.2	9.89	8.00	4.00	2.60	2.20
DECEMBER	7.00	1.50	4.11	1.47	35.78	1.0	6.50	5.50	4.00	2.50	2.00
JANUARY	4.00	0.37	2.56	0.72	28.31	0.6	3.86	3.00	2.50	2.00	1.40
FEBURARY	3.50	1.20	1.98	0.61	30.88	0.4	3.00	2.50	2.20	1.30	1.20
MARCH	800.00	1.20	65.94	169.18	256.58	15.9	493.50	15.50	5.50	2.80	1.20
APRIL	3620.00	6.00	232.70	577.75	248.28	54.2	1579.50	87.75	42.50	21.75	6.67
MAY	429.00	1.40	70.40	95.12	135.12	17.0	283.00	107.00	27.00	6.00	1.80
JUNE	66.00	1.30	18.55	16.08	86.71	4.3	54.90	26.25	16.00	3.08	1.46
JULY	87.00	0.24	9.81	14.90	151.95	2.4	34.60	15.00	3.50	1.60	0.57
AUGUST	9.20	0.13	2.86	2.18	76.32	0.7	7.49	4.25	2.30	1.25	0.35
SEPTEMBER	65.00	1.20	5.05	7.36	145.67	1.2	13.80	5.20	3.55	2.18	1.50
ANNUAL	3620.00	0.13	35.23	185.43	526.41	100.0	105.60	9.73	4.00	2.33	1.20

06332515 BEAR DEN CREEK NEAR MANDAREE, ND

LOCATION.--Lat 47°47'14", long 102°46'05", in NW¼ sec.30, T.150 N., R.94 W., McKenzie County, Hydrologic Unit 10110101, on right bank 0.5 mi (0.8 km) upstream from county highway culvert, and 5.5 mi (8.8 km) northwest of Mandaree.

DRAINAGE AREA.--74 mi^2 (192 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	41	25.00	0.00	9.40	8.68	18.25	7.00	0.75
STREAMFLOW, INSTANTANEOUS (CFS)	41	1100.00	0.01	49.53	181.82	15.00	0.46	0.25
SPECIFIC CONDUCTANCE (MICROMHOS)	41	3650.00	240.00	2052.56	1027.53	2900.00	2420.00	1020.00
OXYGEN, DISSOLVED (MG/L)	29	11.40	6.40	9.27	1.41	10.30	9.60	8.20
OXYGEN, DISSOLVED (PERCENT SATURATION)	18	112.00	65.00	90.89	14.72	103.25	92.50	82.50
PH (UNITS)	30	8.80	7.80	8.40	0.25	8.60	8.45	8.20
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	6	24.00	1.60	7.58	8.60	13.50	4.00	1.82
BICARBONATE (MG/L AS HCO3)	6	1010.00	300.00	731.67	265.21	957.50	770.00	525.00
CARBONATE (MG/L AS CO3)	6	19.00	0.00	5.50	7.69	12.25	2.00	0.00
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	30	1.20	0.00	0.11	0.26	0.08	0.03	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	29	0.80	0.01	0.12	0.19	0.13	0.04	0.03
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	1	24.00	24.00					
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	1	1.00	1.00					
HARDNESS (MG/L AS CACO3)	30	980.00	49.00	238.30	150.77	257.50	215.00	180.00
HARDNESS, NONCARBONATE (MG/L CACO3)	28	230.00	0.00	8.21	43.47	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	30	67.00	12.00	39.67	15.25	50.75	40.50	23.50
MAGNESIUM, DISSOLVED (MG/L AS MG)	30	230.00	4.60	33.89	37.57	31.25	27.00	25.50
SODIUM, DISSOLVED (MG/L AS NA)	30	880.00	32.00	541.40	216.87	692.50	600.00	357.50
SODIUM PERCENT	30	96.00	55.00	81.63	11.00	90.00	85.00	75.00
POTASSIUM, DISSOLVED (MG/L AS K)	30	11.00	5.50	8.29	1.57	9.35	8.50	6.98
CHLORIDE, DISSOLVED (MG/L AS CL)	30	48.00	3.00	9.74	11.00	10.18	5.10	4.18
SULFATE, DISSOLVED (MG/L AS SO4)	30	1100.00	49.00	718.63	211.42	837.50	760.00	637.50
FLUORIDE, DISSOLVED (MG/L AS F)	30	0.80	0.10	0.40	0.14	0.50	0.40	0.30
SILICA, DISSOLVED (MG/L AS SIO2)	30	18.00	1.90	9.65	4.39	12.25	8.85	6.10
ARSENIC, DISSOLVED (UG/L AS AS)	2	2.00	2.00					
ARSENIC, TOTAL (UG/L AS AS)	6	2.00	1.00	1.83	0.41	2.00	2.00	1.75
BARIUM, DISSOLVED (UG/L AS BA)	2	30.00	30.00					
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	6	500.00	100.00	200.00	167.33	350.00	100.00	100.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	2	3.00	1.00					
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00	0.00					
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	6	10.00	0.00	3.00	3.95	5.50	2.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	2	8.00	3.00					
COPPER, DISSOLVED (UG/L AS CU)	2	25.00	10.00					
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	6	31.00	0.00	8.50	11.52	15.25	4.00	1.50
IRON, TOTAL RECOVERABLE (UG/L AS FE)	6	3900.00	550.00	1423.33	1240.69	1950.00	1010.00	715.00
IRON, DISSOLVED (UG/L AS FE)	2	57.00	48.00					
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	800.00	70.00	226.67	282.04	312.50	115.00	100.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	60.00	26.00					
MOLYBDENUM, DISSOLVED (UG/L AS MO)	2	25.00	10.00					
VANADIUM, DISSOLVED (UG/L AS V)	2	8.00	6.00					
ZINC, DISSOLVED (UG/L AS ZN)	2	20.00	8.00					
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	6	40.00	10.00	20.00	12.65	32.50	15.00	10.00
LITHIUM, DISSOLVED (UG/L AS LI)	2	100.00	83.00					
SELENIUM, DISSOLVED (UG/L AS SE)	2	0.00	0.00					
SELENIUM, TOTAL (UG/L AS SE)	6	1.00	0.00	0.17	0.41	0.25	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	30	2600.00	175.00	1826.93	554.29	2162.50	1970.00	1432.50
SOLIDS, DISSOLVED (TONS PER AC-FT)	30	3.54	0.24	2.48	0.75	2.94	2.68	1.95
MERCURY DISSOLVED (UG/L AS HG)	2	0.10	0.10					
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	6	0.40	0.00	0.10	0.15	0.18	0.05	0.00
SEDIMENT, SUSPENDED (MG/L)	20	177.00	8.00	74.05	48.41	110.75	72.50	27.50
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	20	2.40	0.00	0.33	0.67	0.14	0.05	0.01

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	0.61	0.22	0.28	0.06	22.11	0.3	0.41	0.30	0.26	0.24	0.24
NOVEMBER	0.40	0.18	0.26	0.04	16.04	0.3	0.33	0.30	0.25	0.22	0.20
DECEMBER	0.40	0.15	0.25	0.07	29.43	0.3	0.40	0.34	0.22	0.20	0.16
JANUARY	0.30	0.00	0.09	0.10	106.80	0.1	0.30	0.15	0.05	0.01	0.00
FEBURARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
MARCH	1000.00	0.00	35.27	130.21	369.20	43.8	178.20	10.00	0.50	0.00	0.00
APRIL	1080.00	0.20	38.16	141.44	370.69	45.8	139.00	17.25	4.00	1.80	0.33
MAY	140.00	0.15	4.01	15.22	379.97	5.0	9.83	2.90	1.00	0.24	0.17
JUNE	70.00	0.20	1.61	7.41	460.03	1.9	2.30	0.91	0.48	0.30	0.22
JULY	27.00	0.12	1.33	3.03	228.06	1.6	4.13	2.50	0.34	0.18	0.14
AUGUST	0.50	0.08	0.18	0.07	39.71	0.2	0.33	0.20	0.17	0.15	0.10
SEPTEMBER	6.30	0.07	0.42	0.78	187.47	0.5	1.63	0.33	0.23	0.16	0.10
ANNUAL	1080.00	0.00	6.83	57.06	834.84	100.0	10.00	0.50	0.24	0.16	0.00

06332520 SHELL CREEK NEAR PARSHALL, ND

LOCATION.--Lat 48°03'11", long 102°08'10", in SE¼NE¼ sec.29, T.153 N., R.89 W., Mountrail County, Hydrologic Unit 10110101, on left bank 800 ft (240 m) downstream from bridge on county highway, and 6 mi (10 km) northwest of Parshall.

DRAINAGE AREA.--465 mi^2 (1,204 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	38	26.00	0.00	10.34	9.06	18.87	8.00	1.00
STREAMFLOW, INSTANTANEOUS (CFS)	38	1570.00	0.02	83.98	268.67	17.75	1.80	0.50
SPECIFIC CONDUCTANCE (MICROMHOS)	36	3020.00	350.00	2180.42	792.38	2742.50	2450.00	1692.50
PH (UNITS)	12	8.90	7.40	8.33	0.39	8.67	8.25	8.20
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	11	19.00	1.10	6.82	5.18	8.30	4.80	2.90
BICARBONATE (MG/L AS HCO3)	12	1030.00	268.00	691.00	260.41	899.75	786.00	446.75
CARBONATE (MG/L AS CO3)	12	93.00	0.00	12.67	27.12	20.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	12	350.00	140.00	255.00	70.90	320.00	255.00	195.00
HARDNESS, NONCARBONATE (MG/L CACO3)	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	12	59.00	21.00	38.50	12.53	49.50	39.50	24.75
MAGNESIUM, DISSOLVED (MG/L AS MG)	12	49.00	20.00	38.42	10.60	46.75	43.00	28.50
SODIUM, DISSOLVED (MG/L AS NA)	12	710.00	160.00	455.00	184.37	617.50	485.00	270.00
SODIUM PERCENT	12	86.00	68.00	77.50	5.14	79.00	79.00	74.25
POTASSIUM, DISSOLVED (MG/L AS K)	12	9.10	7.30	8.27	0.59	8.80	8.35	7.67
CHLORIDE, DISSOLVED (MG/L AS CL)	12	14.00	5.60	9.30	3.10	11.75	8.90	6.27
SULFATE, DISSOLVED (MG/L AS SO4)	12	930.00	250.00	639.17	220.60	820.00	675.00	455.00
FLUORIDE, DISSOLVED (MG/L AS F)	12	0.40	0.10	0.27	0.11	0.30	0.30	0.15
SILICA, DISSOLVED (MG/L AS SIO2)	12	16.00	2.50	9.70	4.94	14.25	10.50	4.50
BORON, DISSOLVED (UG/L AS B)	12	640.00	80.00	309.17	167.74	445.00	275.00	190.00
IRON, DISSOLVED (UG/L AS FE)	12	970.00	30.00	255.00	243.96	290.00	190.00	130.00
MANGANESE, DISSOLVED (UG/L AS MN)	12	110.00	20.00	59.17	29.99	80.00	60.00	32.50
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	12	2210.00	608.00	1564.92	558.82	2035.00	1725.00	1072.50
SOLIDS, DISSOLVED (TONS PER AC-FT)	12	3.01	0.83	2.13	0.76	2.77	2.34	1.46

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS						PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION	PERCENT OF ANNUAL RUNOFF	95	75	50 MEDIAN	25	5
OCTOBER	2.40	0.54	1.41	0.47	33.15	1.0	2.10	1.80	1.40	1.10	0.63
NOVEMBER	1.90	0.50	1.34	0.31	23.28	0.9	1.70	1.50	1.40	1.20	0.58
DECEMBER	1.30	0.02	0.55	0.37	68.33	0.4	1.10	0.80	0.70	0.08	0.02
JANUARY	0.65	0.00	0.05	0.12	249.79	0.0	0.33	0.02	0.02	0.00	0.00
FEBURARY	0.02	0.00	0.00	0.00	412.80	0.0	0.02	0.00	0.00	0.00	0.00
MARCH	310.00	0.00	28.07	71.26	253.86	20.4	246.50	2.25	0.00	0.00	0.00
APRIL	1560.00	0.00	83.97	254.53	303.13	58.9	439.30	28.75	12.00	6.50	0.00
MAY	54.00	1.40	14.59	12.19	83.54	10.6	42.30	20.50	12.00	4.75	1.50
JUNE	40.00	0.20	5.05	5.14	101.77	3.5	12.00	6.65	4.25	1.48	0.57
JULY	98.00	0.06	3.47	10.35	298.58	2.5	10.30	4.80	0.82	0.41	0.15
AUGUST	4.80	0.02	0.87	0.64	73.40	0.6	1.96	0.99	0.70	0.50	0.32
SEPTEMBER	16.00	0.18	1.50	2.36	157.84	1.0	4.32	1.73	0.77	0.50	0.23
ANNUAL	1560.00	0.00	11.70	79.04	675.55	100.0	26.00	3.00	0.98	0.17	0.00

06335000 LITTLE BEAVER CREEK NEAR MARMARTH, ND

LOCATION.--Lat 46°16'29", long 103°58'33", in NE¼ sec.7, T.132 N., R.106 W., Bowman County, Hydrologic Unit 10110201, on right bank 150 ft (46 m) downstream from concreted ford, 0.8 mi (1.3 km) downstream from Corral Creek, 3 mi (5 km) southwest of Marmarth, and 5 mi (8 km) upstream from mouth.

DRAINAGE AREA.--587 mi^2 (1,520 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1979

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	34	24.00	0.00	7.75	8.41	12.50	5.00	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	34	5289.99	1.20	352.71	961.51	240.75	8.80	3.50
SPECIFIC CONDUCTANCE (MICROMHOS)	34	2420.00	261.00	1338.38	585.48	1727.50	1495.00	816.25
PH (UNITS)	7	8.60	8.00	8.34	0.25	8.60	8.20	8.20
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	6	4.40	1.60	2.33	1.06	2.97	1.95	1.60
BICARBONATE (MG/L AS HCO3)	6	432.00	136.00	288.33	121.09	387.00	311.00	160.00
CARBONATE (MG/L AS CO3)	6	9.00	0.00	2.67	4.18	7.50	0.00	0.00
HARDNESS (MG/L AS CACO3)	7	280.00	130.00	217.14	47.51	250.00	230.00	200.00
HARDNESS, NONCARBONATE (MG/L CACO3)	7	63.00	0.00	18.00	25.98	45.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	7	60.00	27.00	44.43	10.85	53.00	46.00	36.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	7	32.00	15.00	26.00	5.42	29.00	27.00	24.00
SODIUM, DISSOLVED (MG/L AS NA)	7	300.00	66.00	203.71	93.86	270.00	260.00	100.00
SODIUM PERCENT	7	75.00	51.00	63.43	9.69	71.00	69.00	52.00
POTASSIUM, DISSOLVED (MG/L AS K)	7	7.20	3.30	5.51	1.35	6.80	5.50	4.70
CHLORIDE, DISSOLVED (MG/L AS CL)	7	10.00	3.20	6.80	2.64	8.70	8.10	3.60
SULFATE, DISSOLVED (MG/L AS SO4)	7	570.00	160.00	407.14	145.68	520.00	470.00	270.00
FLUORIDE, DISSOLVED (MG/L AS F)	7	0.40	0.10	0.27	0.16	0.40	0.40	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	7	9.30	5.10	8.27	1.44	9.10	8.50	8.40
BORON, DISSOLVED (UG/L AS B)	7	400.00	120.00	281.43	114.66	390.00	330.00	150.00
IRON, DISSOLVED (UG/L AS FE)	7	360.00	0.00	114.29	135.51	240.00	60.00	20.00
MANGANESE, DISSOLVED (UG/L AS MN)	7	80.00	9.00	55.57	29.05	80.00	70.00	20.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	7	1180.00	545.00	862.00	307.55	1100.00	1020.00	563.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	7	1.60	0.47	1.17	0.42	1.50	1.39	0.77

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1979

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION	PERCENT OF ANNUAL RUNOFF	95	75	50 MEDIAN	25	5
OCTOBER	334.00	2.00	23.40	59.48	254.19	2.5	194.70	7.35	5.20	4.30	2.22
NOVEMBER	5.20	0.90	3.12	0.99	31.75	0.3	4.90	3.60	3.25	2.50	1.00
DECEMBER	5.00	1.00	2.84	1.05	37.07	0.3	4.50	3.50	3.00	2.00	1.00
JANUARY	2.50	1.40	1.75	0.38	21.93	0.2	2.50	2.08	1.50	1.50	1.50
FEBURARY	2.50	1.00	1.56	0.55	35.13	0.1	2.50	2.00	1.50	1.00	1.00
MARCH	5870.00	1.50	513.28	1102.10	214.72	53.3	3585.99	420.00	20.00	3.00	1.50
APRIL	927.00	48.00	215.58	202.07	93.73	21.7	673.25	294.25	116.00	70.00	50.05
MAY	2660.00	21.00	128.92	339.71	263.51	13.4	427.60	108.75	53.00	33.75	22.15
JUNE	248.00	7.50	42.96	49.65	115.58	4.3	151.20	45.75	25.00	18.00	9.01
JULY	56.00	1.90	18.29	14.62	79.92	1.9	52.10	29.00	13.50	6.63	2.29
AUGUST	29.00	3.40	5.93	3.47	58.47	0.6	11.00	6.40	4.90	4.30	3.83
SEPTEMBER	134.00	2.10	13.02	23.99	184.29	1.3	78.50	9.70	4.20	2.90	2.30
ANNUAL	5870.00	0.90	81.44	368.56	452.58	100.0	340.20	31.00	5.00	2.50	1.50

06335500 LITTLE MISSOURI RIVER AT MARMARTH, ND

LOCATION.--Lat 46°17'44", long 103°55'06", in SW¼ sec.30, T.133 N., R.105 W., Slope County, Hydrologic Unit 10110203, on left bank 90 ft (27 m) downstream from bridge on U.S. Highway 12 in Marmarth, and 1.5 mi (2.4 km) downstream from Little Beaver Creek.

DRAINAGE AREA.--4,640 mi^2 (12,020 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	42	28.00	0.00	8.33	8.84	11.50	7.00	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	42	23999.95	0.55	1669.87	4734.60	606.75	58.50	10.00
SPECIFIC CONDUCTANCE (MICROMHOS)	42	3290.00	262.00	1672.95	836.65	2275.00	1620.00	1145.00
PH (UNITS)	7	8.90	7.30	8.19	0.49	8.40	8.20	8.00
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	6	13.00	1.20	4.42	4.37	6.47	3.30	1.35
BICARBONATE (MG/L AS HCO3)	7	673.00	118.00	350.86	205.44	528.00	271.00	161.00
CARBONATE (MG/L AS CO3)	7	20.00	0.00	4.14	7.31	5.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	7	330.00	110.00	198.57	83.35	260.00	170.00	110.00
HARDNESS, NONCARBONATE (MG/L CACO3)	7	110.00	0.00	22.71	40.83	37.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	7	82.00	23.00	41.00	20.07	45.00	40.00	27.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	7	39.00	10.00	23.29	11.09	33.00	23.00	13.00
SODIUM, DISSOLVED (MG/L AS NA)	7	650.00	72.00	327.00	234.98	610.00	250.00	97.00
SODIUM PERCENT	7	89.00	55.00	71.57	14.64	83.00	78.00	56.00
POTASSIUM, DISSOLVED (MG/L AS K)	7	12.00	3.30	7.26	3.04	10.00	7.10	4.80
CHLORIDE, DISSOLVED (MG/L AS CL)	7	29.00	3.40	15.06	10.12	24.00	14.00	4.40
SULFATE, DISSOLVED (MG/L AS SO4)	7	1100.00	160.00	591.43	359.05	970.00	540.00	230.00
FLUORIDE, DISSOLVED (MG/L AS F)	7	0.50	0.10	0.34	0.14	0.40	0.40	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	7	10.00	4.10	6.29	2.11	7.60	5.80	4.20
BORON, DISSOLVED (UG/L AS B)	7	610.00	120.00	345.71	175.49	550.00	260.00	260.00
IRON, DISSOLVED (UG/L AS FE)	7	340.00	50.00	150.00	110.91	260.00	100.00	60.00
MANGANESE, DISSOLVED (UG/L AS MN)	7	30.00	0.00	14.29	9.76	20.00	10.00	10.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	7	2110.00	353.00	1184.14	681.05	1920.00	1040.00	495.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	7	2.87	0.48	1.61	0.93	2.61	1.41	0.67

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	4050.00	9.20	324.58	742.05	228.61	6.5	2048.00	112.00	34.00	29.00	10.70
NOVEMBER	60.00	9.00	32.71	13.11	40.07	0.6	54.45	43.50	30.00	23.00	9.87
DECEMBER	27.00	6.00	17.42	4.89	28.10	0.3	25.00	22.00	18.00	15.00	8.73
JANUARY	20.00	0.50	5.87	5.61	95.51	0.1	16.60	9.10	3.50	0.90	0.80
FEBURARY	6.00	0.50	2.20	1.43	64.91	0.0	5.00	3.00	1.50	1.15	0.50
MARCH	21900.00	1.30	2006.25	4823.44	240.42	40.2	16739.99	1300.00	165.00	4.50	1.30
APRIL	8530.00	14.00	1212.60	1564.06	128.98	23.5	3886.00	2220.00	519.00	77.75	15.55
MAY	5290.00	0.33	890.36	1476.50	165.83	17.8	4866.00	1064.00	174.00	6.35	0.67
JUNE	3180.00	1.10	344.18	669.34	194.47	6.7	2369.50	315.25	96.50	27.25	2.26
JULY	558.00	0.00	111.60	122.66	109.90	2.2	335.00	188.00	80.00	0.00	0.00
AUGUST	273.00	0.00	56.15	62.10	110.60	1.1	208.10	66.00	41.00	12.00	0.00
SEPTEMBER	390.00	2.30	38.64	61.24	158.48	0.7	182.40	38.25	19.00	5.88	2.86
ANNUAL	21900.00	0.00	423.41	1670.98	394.65	100.0	2501.50	127.75	29.00	5.93	0.50

06335750 DEEP CREEK NEAR AMIDON, ND

LOCATION.--Lat 46°34'37", long 103°33'26", in SE¼SW¼NE¼ sec.24, T.136 N., R.103 W., Slope County, Hydrologic Unit 10110203, on left bank 100 ft (30 m) downstream from county bridge, 3.0 mi (4.8 km) above mouth, and 13 mi (21 km) northwest of Amidon.

DRAINAGE AREA.--250 mi^2 (648 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PE 10D OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	40	27.00	0.00	9.31	9.44	18.75	6.75	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	40	1460.00	0.04	53.64	232.52	9.12	1.46	0.54
SPECIFIC CONDUCTANCE (MICROMHOS)	35	5250.00	1220.00	3887.71	803.58	4400.00	3970.00	3380.00
OXYGEN, DISSOLVED (MG/L)	34	17.90	5.50	10.86	2.73	12.40	11.15	8.85
OXYGEN, DISSOLVED (PERCENT SATURATION)	34	729.00	62.00	120.62	112.74	109.25	96.50	84.75
PH (UNITS)	35	8.70	6.90	8.23	0.36	8.50	8.30	8.10
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	35	86.00	2.00	9.27	15.18	9.20	5.10	3.00
BICARBONATE (MG/L AS HCO3)	35	912.00	200.00	625.54	153.59	730.00	624.00	532.00
CARBONATE (MG/L AS CO3)	35	41.00	0.00	5.69	9.45	8.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	34	2.70	0.46	1.04	0.44	1.20	0.94	0.79
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	34	1.50	0.40	0.86	0.26	1.03	0.84	0.66
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	35	0.18	0.00	0.05	0.05	0.07	0.03	0.01
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	35	1.40	0.00	0.14	0.28	0.15	0.03	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	34	0.24	0.00	0.04	0.05	0.05	0.03	0.02
PHOSPHORUS, DISSOLVED (MG/L AS P)	35	0.05	0.00	0.01	0.01	0.02	0.01	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	35	33.00	10.00	19.63	5.92	23.00	19.00	15.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	34	3.80	0.10	0.76	0.87	0.70	0.50	0.38
HARDNESS (MG/L AS CACO3)	35	1100.00	310.00	780.86	157.69	890.00	790.00	670.00
HARDNESS, NONCARBONATE (MG/L CACO3)	35	440.00	41.00	256.77	124.99	360.00	230.00	160.00
CALCIUM, DISSOLVED (MG/L AS CA)	35	140.00	50.00	103.00	20.94	110.00	110.00	93.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	35	170.00	46.00	126.83	27.75	150.00	130.00	110.00
SODIUM, DISSOLVED (MG/L AS NA)	35	1000.00	160.00	715.71	185.02	850.00	730.00	600.00
SODIUM PERCENT	35	90.00	51.00	66.51	7.17	69.00	67.00	63.00
POTASSIUM, DISSOLVED (MG/L AS K)	35	19.00	6.40	14.35	2.64	16.00	14.00	13.00
CHLORIDE, DISSOLVED (MG/L AS CL)	35	24.00	1.20	9.86	4.33	12.00	9.30	7.60
SULFATE, DISSOLVED (MG/L AS SO4)	35	2500.00	500.00	1673.71	460.15	2000.00	1700.00	1500.00
FLUORIDE, DISSOLVED (MG/L AS F)	35	0.80	0.10	0.41	0.15	0.50	0.40	0.30
SILICA, DISSOLVED (MG/L AS SIO2)	35	16.00	3.80	8.05	3.28	11.00	7.00	5.70
ARSENIC, DISSOLVED (UG/L AS AS)	10	4.00	1.00	2.20	0.92	3.00	2.00	1.75
ARSENIC, TOTAL (UG/L AS AS)	6	5.00	2.00	3.00	1.26	4.25	2.50	2.00
BARIUM, DISSOLVED (UG/L AS BA)	10	200.00	0.00	46.80	62.33	62.50	30.00	0.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	6	300.00	0.00	100.00	109.54	150.00	100.00	0.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	10	3.00	0.00	0.80	1.23	1.50	0.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	35	2800.00	380.00	1405.71	388.75	1600.00	1500.00	1200.00
CHROMIUM, DISSOLVED (UG/L AS CR)	10	10.00	0.00	2.80	4.54	6.50	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	6	20.00	0.00	6.67	8.16	12.50	5.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	10	8.00	0.00	2.80	3.01	4.25	2.50	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	6	9.00	0.00	3.50	3.02	5.25	3.00	1.50
COPPER, DISSOLVED (UG/L AS CU)	12	28.00	0.00	12.00	10.05	24.00	9.50	2.75
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	6	12.00	4.00	8.17	3.19	11.25	8.50	4.75
IRON, DISSOLVED (UG/L AS FE)	34	180.00	10.00	45.29	40.47	42.50	30.00	30.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	280.00	40.00	146.67	77.89	190.00	140.00	100.00
MANGANESE, DISSOLVED (UG/L AS MN)	10	140.00	5.00	76.50	49.11	112.50	100.00	17.50
MOLYBDENUM, DISSOLVED (UG/L AS MO)	10	25.00	0.00	8.10	9.33	13.75	5.00	1.75
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	6	6.00	2.00	4.17	1.47	5.25	4.50	2.75
NICKEL, DISSOLVED (UG/L AS NI)	10	8.00	0.00	3.20	2.30	4.00	3.50	1.50
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	6	14.00	3.00	7.00	4.24	10.25	6.50	3.00
VANADIUM, DISSOLVED (UG/L AS V)	10	8.00	0.00	2.20	3.22	4.25	0.50	0.00
ZINC, DISSOLVED (UG/L AS ZN)	10	30.00	3.00	10.70	7.50	10.75	10.00	6.75
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	6	50.00	20.00	26.67	12.11	35.00	20.00	20.00
ALUMINUM, DISSOLVED (UG/L AS AL)	10	50.00	0.00	9.00	15.95	12.50	0.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	10	100.00	20.00	63.80	27.48	80.50	80.00	36.50
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	6	90.00	20.00	65.00	28.11	82.50	80.00	35.00
SELENIUM, DISSOLVED (UG/L AS SE)	10	1.00	0.00	0.50	0.53	1.00	0.50	0.00
SELENIUM, TOTAL (UG/L AS SE)	6	1.00	0.00	0.67	0.52	1.00	1.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	35	4360.00	898.00	3063.94	694.58	3560.00	3160.00	2580.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	35	5.93	1.22	4.17	0.94	4.84	4.30	3.51
MERCURY, DISSOLVED (UG/L AS HG)	10	0.50	0.00	0.10	0.16	0.13	0.05	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	6	0.40	0.00	0.12	0.18	0.33	0.00	0.00
SEDIMENT, SUSPENDED (MG/L)	40	978.00	11.00	151.30	201.52	148.25	85.00	42.25
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	40	3860.00	0.00	117.38	611.05	5.10	0.22	0.09

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	25.00	0.10	2.31	4.56	197.41	1.2	12.30	0.97	0.70	0.22	0.10
NOVEMBER	2.60	0.35	1.21	0.63	51.62	0.6	2.30	1.68	0.99	0.76	0.42
DECEMBER	1.90	0.70	1.28	0.33	26.16	0.7	1.80	1.60	1.30	1.00	0.75
JANUARY	1.20	0.01	0.66	0.37	55.50	0.4	1.20	1.00	0.60	0.38	0.05
FEBURARY	1.50	0.00	0.49	0.40	80.90	0.2	1.20	0.70	0.60	0.01	0.00
MARCH	1560.00	0.08	98.61	263.31	267.02	52.6	671.00	62.50	3.80	1.20	0.14
APRIL	435.00	0.97	59.78	71.46	119.55	30.9	197.15	76.75	38.50	12.50	1.40
MAY	117.00	0.18	14.73	19.57	132.91	7.9	54.20	19.50	9.20	0.69	0.24
JUNE	63.00	0.10	6.93	11.56	166.93	3.6	34.95	6.68	3.00	0.32	0.12
JULY	9.60	0.03	2.10	2.37	113.10	1.1	7.29	3.10	1.40	0.07	0.04
AUGUST	5.80	0.03	0.81	1.10	135.84	0.4	3.49	1.20	0.36	0.07	0.04
SEPTEMBER	6.90	0.04	0.85	1.12	131.82	0.4	3.18	1.13	0.44	0.06	0.05
ANNUAL	1560.00	0.00	15.91	84.71	532.48	100.0	63.00	3.40	1.00	0.40	0.05

06336600 BEAVER CREEK NEAR TROTTERS, ND

LOCATION.--Lat 47°09'47", long 103°59'32", in SW¼SW¼NE¼ sec.33, T.143 N., R.105 W., Golden Valley County, Hydrologic Unit 10110204, on left bank 100 ft (30 m) upstream from bridge on county road, 2.4 mi (3.9 km) east of Montana-North Dakota State line, 13 mi (21 km) southwest of Trotters, 17 mi (27 km) north of Beach, 20 mi (32 km) upstream from Elk Creek, and 27 mi (43 km) above mouth.

DRAINAGE AREA.--485 mi^2 (1,260 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	42	24.50	0.00	8.73	8.26	15.75	7.50	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	43	2350.00	0.03	123.72	398.01	33.10	4.40	1.50
SPECIFIC CONDUCTANCE (MICROMHOS)	36	3530.00	695.00	2344.17	639.09	2830.00	2460.00	1935.00
OXYGEN, DISSOLVED (MG/L)	34	14.00	6.20	10.37	1.93	11.93	10.05	9.08
OXYGEN, DISSOLVED (PERCENT SATURATION)	34	126.00	74.00	94.24	10.22	97.25	92.50	88.75
PH (UNITS)	35	8.50	7.80	8.19	0.19	8.30	8.20	8.10
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	35	18.00	1.90	5.85	3.90	7.40	4.80	2.90
BICARBONATE (MG/L AS HCO3)	35	727.00	188.00	492.69	134.90	586.00	520.00	422.00
CARBONATE (MG/L AS CO3)	35	12.00	0.00	1.54	3.27	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	36	2.70	0.36	0.93	0.52	0.95	0.77	0.61
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	36	2.20	0.18	0.74	0.45	0.84	0.63	0.51
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	36	0.28	0.00	0.07	0.08	0.11	0.05	0.02
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	36	0.62	0.00	0.12	0.18	0.15	0.03	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	36	0.43	0.00	0.06	0.08	0.07	0.03	0.02
PHOSPHORUS, DISSOLVED (MG/L AS P)	36	0.08	0.00	0.01	0.02	0.02	0.01	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	36	30.00	5.10	12.29	5.66	13.75	11.50	8.03
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	35	8.10	0.10	1.11	1.48	1.05	0.70	0.40
HARDNESS (MG/L AS CACO3)	36	950.00	240.00	637.50	178.48	772.50	675.00	530.00
HARDNESS, NONCARBONATE (MG/L CACO3)	35	350.00	0.00	229.23	87.21	300.00	230.00	170.00
CALCIUM, DISSOLVED (MG/L AS CA)	36	160.00	51.00	107.00	27.78	120.00	110.00	90.25
MAGNESIUM, DISSOLVED (MG/L AS MG)	36	140.00	26.00	89.97	28.52	110.00	99.50	69.25
SODIUM, DISSOLVED (MG/L AS NA)	36	520.00	64.00	346.50	111.38	427.50	360.00	277.50
SODIUM PERCENT	36	74.00	36.00	54.61	7.64	56.00	54.00	52.00
POTASSIUM, DISSOLVED (MG/L AS K)	36	14.00	7.10	10.85	1.62	12.00	11.00	10.00
CHLORIDE, DISSOLVED (MG/L AS CL)	36	22.00	2.60	9.11	3.83	10.75	8.55	6.73
SULFATE, DISSOLVED (MG/L AS SO4)	36	1400.00	240.00	920.28	283.96	1100.00	1000.00	705.00
FLUORIDE, DISSOLVED (MG/L AS F)	36	0.40	0.00	0.24	0.09	0.30	0.20	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	36	13.00	2.90	7.70	2.48	9.18	7.70	5.90
ARSENIC, DISSOLVED (UG/L AS AS)	10	3.00	1.00	1.70	0.67	2.00	2.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	6	5.00	2.00	3.00	1.10	3.50	3.00	2.00
BARIUM, DISSOLVED (UG/L AS BA)	11	480.00	0.00	170.00	173.90	300.00	70.00	30.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	6	400.00	0.00	166.67	136.63	250.00	150.00	75.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	10	5.00	0.00	1.10	1.66	1.50	0.50	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	6	10.00	0.00	1.67	4.08	2.50	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	36	1100.00	190.00	638.89	195.34	737.50	675.00	552.50
CHROMIUM, DISSOLVED (UG/L AS CR)	10	20.00	0.00	4.00	6.99	10.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	6	20.00	0.00	8.33	7.53	12.50	10.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	10	8.00	0.00	1.80	2.57	3.00	0.50	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	6	20.00	0.00	4.17	7.91	8.00	0.50	0.00
COPPER, DISSOLVED (UG/L AS CU)	10	25.00	2.00	9.30	6.99	11.75	9.50	2.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	6	50.00	6.00	16.00	16.85	22.25	10.00	6.75
IRON, DISSOLVED (UG/L AS FE)	36	140.00	0.00	34.00	33.40	40.00	20.00	12.50
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	820.00	80.00	301.67	269.70	452.50	230.00	110.00
MANGANESE, DISSOLVED (UG/L AS MN)	10	80.00	10.00	35.40	22.88	51.00	30.00	17.50
MOLYBDENUM, DISSOLVED (UG/L AS MO)	10	25.00	0.00	6.70	7.50	10.00	3.00	2.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	5	5.00	0.00	1.60	1.34	3.00	1.00	0.50
NICKEL, DISSOLVED (UG/L AS NI)	10	4.00	0.00	2.50	1.51	4.00	3.00	1.50
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	6	27.00	4.00	9.83	8.93	15.75	6.00	4.00
VANADIUM, DISSOLVED (UG/L AS V)	10	8.00	0.00	2.37	2.60	3.75	1.20	0.93
ZINC, DISSOLVED (UG/L AS ZN)	10	30.00	0.00	12.30	9.03	20.00	10.00	6.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	6	110.00	20.00	41.67	34.88	57.50	30.00	20.00
ALUMINUM, DISSOLVED (UG/L AS AL)	10	80.00	0.00	21.00	28.07	42.50	5.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	10	70.00	5.00	44.40	21.90	61.25	50.00	26.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	6	70.00	20.00	40.00	17.89	55.00	35.00	27.50
SELENIUM, DISSOLVED (UG/L AS SE)	10	3.00	0.00	0.30	0.95	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	6	1.00	0.00	0.33	0.52	1.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	36	2760.00	462.00	1773.58	522.09	2165.00	1855.00	1470.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	36	3.75	0.63	2.41	0.71	2.94	2.52	2.00
MERCURY, DISSOLVED (UG/L AS HG)	10	0.60	0.00	0.14	0.22	0.20	0.05	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	6	0.80	0.00	0.25	0.29	0.43	0.20	0.00
SEDIMENT, SUSPENDED (MG/L)	42	2560.00	14.00	201.43	444.41	141.00	79.50	51.75
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	42	16200.00	0.00	573.00	2556.46	7.85	0.80	0.15

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION	PERCENT OF ANNUAL RUNOFF	95	75	MEDIAN 50	25	5
OCTOBER	6.00	0.04	0.99	1.40	140.93	0.2	5.50	1.40	0.34	0.19	0.04
NOVEMBER	6.50	0.28	2.87	2.05	71.52	0.5	5.50	5.40	2.65	0.80	0.36
DECEMBER	6.50	1.40	3.93	1.56	39.67	0.8	6.00	5.05	4.50	2.00	1.87
JANUARY	5.30	1.00	2.98	1.24	41.74	0.6	5.00	3.80	3.50	1.90	1.10
FEBRUARY	8.00	1.00	3.26	1.69	51.74	0.6	5.50	5.00	2.70	1.85	1.13
MARCH	2500.00	1.70	229.36	554.86	241.92	44.8	1772.00	47.50	20.00	6.00	1.77
APRIL	1220.00	4.50	197.22	269.99	136.90	37.3	905.65	255.75	85.50	14.75	4.90
MAY	87.00	0.54	29.98	23.53	78.50	5.9	75.30	46.00	31.00	3.20	0.72
JUNE	212.00	0.34	23.44	35.10	149.76	4.4	112.60	25.50	12.50	1.10	0.49
JULY	120.00	0.02	21.37	28.86	135.06	4.2	90.00	29.50	9.00	0.15	0.03
AUGUST	11.00	0.02	3.63	3.85	106.07	0.7	11.00	6.95	2.30	0.04	0.02
SEPTEMBER	6.00	0.02	0.68	1.05	155.00	0.1	3.46	0.82	0.32	0.07	0.03
ANNUAL	2500.00	0.02	43.46	194.81	448.22	100.0	139.35	12.00	3.80	1.10	0.04

06337000 LITTLE MISSOURI RIVER NEAR WATFORD CITY, ND

LOCATION.--Lat 47°35'25", long 103°15'05", in NW¼SE¼SE¼ sec.35, T.148 N., R.99 W., McKenzie County, Hydrologic Unit 10110205, at bridge on U.S. Highway 85, 17 mi (27 km) upstream from Cherry Creek, and 17.5 mi (28.2 km) south of Watford City.

DRAINAGE AREA.--8,310 mi^2 (21,520 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	38	24.00	0.00	9.45	7.84	14.88	7.75	2.00
STREAMFLOW, INSTANTANEOUS (CFS)	38	27899.95	5.50	2384.81	5392.30	2042.50	244.00	29.00
SPECIFIC CONDUCTANCE (MICROMHOS)	38	3500.00	400.00	1636.97	821.64	2197.50	1600.00	880.00
OXYGEN, DISSOLVED (MG/L)	29	12.00	3.80	8.95	2.08	10.60	9.40	7.55
OXYGEN, DISSOLVED (PERCENT SATURATION)	17	108.00	29.00	85.65	17.58	96.50	87.00	78.50
PH (UNITS)	29	8.80	7.80	8.34	0.26	8.55	8.30	8.15
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	5	4.70	0.80	1.98	1.62	3.45	1.30	0.85
BICARBONATE (MG/L AS HCO3)	5	470.00	130.00	272.00	137.19	400.00	270.00	145.00
CARBONATE (MG/L AS CO3)	5	4.00	0.00	0.80	1.79	2.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	26	20.00	0.68	3.21	4.35	4.68	1.25	0.87
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	26	19.00	0.57	2.83	4.01	4.15	1.25	0.69
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	29	0.21	0.00	0.06	0.06	0.10	0.04	0.01
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	29	2.40	0.00	0.32	0.53	0.46	0.10	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	29	10.00	0.01	1.12	2.07	1.50	0.16	0.06
PHOSPHORUS, DISSOLVED (MG/L AS P)	29	0.04	0.00	0.01	0.01	0.02	0.01	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	24	28.00	5.40	11.85	5.49	15.00	9.85	8.20
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	19	12.00	0.20	2.96	3.70	3.00	1.30	0.30
HARDNESS (MG/L AS CACO3)	29	680.00	85.00	358.24	167.14	450.00	380.00	215.00
HARDNESS, NONCARBONATE (MG/L CACO3)	29	190.00	0.00	68.24	59.03	110.00	56.00	19.00
CALCIUM, DISSOLVED (MG/L AS CA)	29	150.00	21.00	75.69	32.85	93.50	84.00	41.50
MAGNESIUM, DISSOLVED (MG/L AS MG)	29	95.00	3.70	40.94	22.00	56.50	39.00	24.50
SODIUM, DISSOLVED (MG/L AS NA)	29	630.00	92.00	329.03	146.84	435.00	340.00	240.00
SODIUM PERCENT	29	87.00	51.00	67.48	9.73	75.50	66.00	59.50
POTASSIUM, DISSOLVED (MG/L AS K)	29	20.00	4.80	10.99	3.56	13.00	11.00	8.35
CHLORIDE, DISSOLVED (MG/L AS CL)	29	24.00	4.40	11.19	5.01	16.00	10.00	7.70
SULFATE, DISSOLVED (MG/L AS SO4)	29	1500.00	180.00	749.66	338.75	955.00	780.00	475.00
FLUORIDE, DISSOLVED (MG/L AS F)	29	0.60	0.00	0.33	0.13	0.40	0.30	0.30
SILICA, DISSOLVED (MG/L AS SIO2)	29	13.00	2.70	8.84	2.45	11.00	8.90	7.35
ARSENIC, DISSOLVED (UG/L AS AS)	10	2.00	1.00	1.50	0.53	2.00	1.50	1.00
ARSENIC, TOTAL (UG/L AS AS)	24	100.00	1.00	16.88	23.59	29.50	4.50	2.00
BARIUM, DISSOLVED (UG/L AS BA)	10	300.00	0.00	120.00	122.93	225.00	100.00	0.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	24	3000.00	0.00	483.33	647.85	600.00	350.00	25.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	21	20.00	0.00	4.29	5.98	10.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	1	420.00	420.00					
CHROMIUM, DISSOLVED (UG/L AS CR)	10	10.00	0.00	2.00	4.22	2.50	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	24	440.00	0.00	66.79	101.81	82.50	25.00	10.00
COBALT, DISSOLVED (UG/L AS CO)	10	2.00	0.00	0.50	0.71	1.00	0.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	24	240.00	0.00	37.25	61.81	48.25	10.50	2.00
COPPER, DISSOLVED (UG/L AS CU)	10	50.00	2.00	9.30	14.65	9.50	3.50	2.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	24	1000.00	1.00	124.08	218.68	180.00	18.50	10.00
IRON, TOTAL RECOVERABLE (UG/L AS FE)	24	570000.00	230.00	69053.75	125675.71	88250.00	12800.00	1650.00
IRON, DISSOLVED (UG/L AS FE)	10	230.00	10.00	71.00	77.38	140.00	30.00	20.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	23	17000.00	10.00	1808.70	3562.98	2700.00	350.00	80.00
MANGANESE, DISSOLVED (UG/L AS MN)	10	80.00	0.00	17.80	24.93	25.00	10.00	0.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	22	10.00	0.00	4.77	3.04	7.25	4.50	2.75
NICKEL, DISSOLVED (UG/L AS NI)	4	10.00	5.00					
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	22	830.00	2.00	122.36	195.81	142.50	25.50	10.75
ZINC, DISSOLVED (UG/L AS ZN)	10	90.00	0.00	25.00	27.99	30.00	15.00	10.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	24	2600.00	20.00	525.83	563.55	375.00	70.00	30.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	22	390.00	10.00	109.55	78.77	132.50	85.00	70.00
SELENIUM, DISSOLVED (UG/L AS SE)	10	4.00	0.00	1.30	1.34	2.25	1.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	24	9.00	0.00	2.08	2.36	2.75	1.00	1.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	29	2830.00	441.00	1420.79	616.07	1835.00	1380.00	1003.50
SOLIDS, DISSOLVED (TONS PER AC-FT)	29	3.85	0.60	1.93	0.84	2.50	1.88	1.37
MERCURY, DISSOLVED (UG/L AS HG)	10	1.00	0.00	0.20	0.34	0.43	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	24	2.40	0.00	0.43	0.66	0.40	0.20	0.10
SEDIMENT, SUSPENDED (MG/L)	28	29500.00	27.00	3050.21	6067.88	3430.00	308.50	77.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	27	182000.00	1.10	13352.21	40124.00	3120.00	124.00	5.10

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	2460.00	21.00	353.54	567.60	160.55	4.2	1768.00	412.50	64.00	28.50	24.00
NOVEMBER	181.00	14.00	48.28	34.56	71.58	0.6	134.60	62.50	41.00	20.00	16.00
DECEMBER	35.00	4.00	16.20	6.35	39.22	0.2	32.00	20.00	16.00	13.00	5.70
JANUARY	14.00	0.00	2.55	4.43	173.61	0.0	12.60	3.00	0.00	0.00	0.00
FEBUARY	2.00	0.00	0.08	0.38	466.99	0.0	0.70	0.00	0.00	0.00	0.00
MARCH	30900.00	0.00	2910.61	6359.21	218.48	34.5	19919.95	2350.00	450.00	45.00	0.00
APRIL	21600.00	53.00	2625.63	3534.04	134.60	30.1	9174.00	3457.50	1405.00	217.25	69.30
MAY	6660.00	12.00	1199.82	1734.14	144.53	14.2	6012.00	1515.00	375.00	33.00	13.70
JUNE	3820.00	14.00	659.31	1000.22	151.71	7.6	3447.00	795.00	175.00	88.50	16.00
JULY	3280.00	1.50	363.71	504.89	138.82	4.3	1453.00	540.00	178.00	11.50	2.85
AUGUST	528.00	1.50	142.27	126.19	88.70	1.7	439.40	211.50	106.00	58.00	1.85
SEPTEMBER	3210.00	15.00	233.01	463.30	198.83	2.7	1074.80	186.50	79.50	42.75	16.55
ANNUAL	30900.00	0.00	716.17	2402.74	335.50	100.0	3424.50	368.75	62.00	14.00	0.00

06338490 MISSOURI RIVER AT GARRISON DAM, ND

LOCATION.--Lat 47°30'08", long 101°25'50", in S½ sec.31, T.147 N., R.84 W., Mercer County, Hydrologic Unit 10130101, downstream from dam at National Fish Hatchery's supply line from penstocks 4 and 5, in control structure of Garrison Dam, 2.5 mi (4.0 km) west of Riverdale, 14 mi (23 km) upstream from Knife River, and at mile 1,389.9 (2,236.3 km).

DRAINAGE AREA.--181,400 mi² (469,800 km²), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	35	16.00	1.50	7.00	4.71	11.00	6.00	2.00
STREAMFLOW, INSTANTANEOUS (CFS)	12	29000.00	14000.00	21333.33	4423.35	24650.00	21150.00	18250.00
SPECIFIC CONDUCTANCE (MICROMHOS)	35	810.00	645.00	728.49	41.91	755.00	730.00	700.00
OXYGEN, DISSOLVED (MG/L)	34	12.90	6.60	10.52	1.82	12.10	11.00	9.17
OXYGEN, DISSOLVED (PERCENT SATURATION)	17	101.00	72.00	88.41	8.02	95.00	88.00	83.50
PH (UNITS)	35	8.50	8.00	8.24	0.15	8.40	8.20	8.10
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	10	2.90	1.00	1.71	0.62	2.12	1.55	1.20
BICARBONATE (MG/L AS HCO3)	11	201.00	180.00	193.73	6.84	200.00	190.00	190.00
CARBONATE (MG/L AS CO3)	11	5.00	0.00	0.73	1.56	1.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	35	1.30	0.14	0.56	0.27	0.72	0.54	0.38
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	35	1.10	0.03	0.40	0.26	0.51	0.36	0.23
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	35	0.06	0.00	0.02	0.02	0.02	0.01	0.00
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	35	0.26	0.02	0.15	0.07	0.21	0.14	0.11
PHOSPHORUS, TOTAL (MG/L AS P)	35	0.19	0.00	0.02	0.03	0.02	0.01	0.01
PHOSPHORUS, DISSOLVED (MG/L AS P)	35	0.04	0.00	0.01	0.01	0.01	0.01	0.00
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	27	12.00	2.20	4.61	2.33	5.80	3.80	3.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	20	0.20	0.10	0.13	0.05	0.20	0.10	0.10
HARDNESS (MG/L AS CACO3)	36	260.00	220.00	235.83	10.52	240.00	230.00	230.00
HARDNESS, NONCARBONATE (MG/L CACO3)	36	100.00	56.00	82.19	9.42	88.00	80.00	77.00
CALCIUM, DISSOLVED (MG/L AS CA)	36	62.00	50.00	55.97	2.66	58.00	56.00	54.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	36	27.00	20.00	23.33	1.43	24.00	23.00	22.00
SODIUM, DISSOLVED (MG/L AS NA)	36	82.00	59.00	69.28	6.38	74.00	68.00	63.25
SODIUM PERCENT	36	54.00	34.00	39.75	4.85	40.00	38.00	37.00
POTASSIUM, DISSOLVED (MG/L AS K)	36	5.10	3.10	4.35	0.36	4.60	4.30	4.13
CHLORIDE, DISSOLVED (MG/L AS CL)	36	19.00	3.80	10.19	2.07	11.00	9.90	9.60
SULFATE, DISSOLVED (MG/L AS SO4)	36	250.00	180.00	214.17	22.09	230.00	215.00	192.50
FLUORIDE, DISSOLVED (MG/L AS F)	36	0.70	0.30	0.50	0.08	0.58	0.50	0.42
SILICA, DISSOLVED (MG/L AS SIO2)	36	14.00	6.30	7.59	1.33	8.00	7.50	6.55
ARSENIC, DISSOLVED (UG/L AS AS)	11	3.00	1.00	1.82	0.75	2.00	2.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	25	3.00	1.00	2.08	0.76	3.00	2.00	1.50
BARIUM, DISSOLVED (UG/L AS BA)	11	100.00	0.00	52.73	31.97	60.00	50.00	50.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	24	400.00	0.00	120.83	114.13	200.00	100.00	0.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	10	10.00	0.00	2.10	3.11	2.00	1.00	0.75
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	24	10.00	0.00	2.50	4.42	7.50	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	11	130.00	0.00	113.64	38.02	130.00	120.00	120.00
CHROMIUM, DISSOLVED (UG/L AS CR)	11	20.00	0.00	3.64	7.10	5.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	25	20.00	0.00	5.88	6.47	10.00	5.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	12	3.00	0.00	1.75	1.54	3.00	3.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	24	50.00	0.00	2.58	10.13	1.00	0.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	12	5.00	0.00	1.17	1.34	1.00	1.00	0.25
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	25	10.00	0.00	4.28	2.54	6.00	5.00	2.00
IRON, TOTAL RECOVERABLE (UG/L AS FE)	25	300.00	0.00	86.40	66.07	120.00	80.00	30.00
IRON, DISSOLVED (UG/L AS FE)	19	160.00	0.00	28.42	41.80	20.00	10.00	10.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	25	50.00	0.00	10.52	10.05	10.00	10.00	9.00
MANGANESE, DISSOLVED (UG/L AS MN)	13	10.00	0.00	2.08	3.55	1.00	1.00	0.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	10	10.00	0.00	6.50	4.55	10.00	10.00	1.75
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	23	10.00	0.00	3.30	2.72	5.00	3.00	1.00
NICKEL, DISSOLVED (UG/L AS NI)	10	21.00	0.00	4.60	6.47	7.25	3.00	0.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	24	50.00	0.00	8.04	10.96	8.75	5.00	3.00
VANADIUM, DISSOLVED (UG/L AS V)	10	6.00	0.00	0.90	1.85	1.00	0.00	0.00
ZINC, DISSOLVED (UG/L AS ZN)	12	10.00	0.00	4.75	3.36	8.75	3.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	25	100.00	0.00	22.40	21.07	30.00	20.00	10.00
ALUMINUM, DISSOLVED (UG/L AS AL)	11	20.00	0.00	4.55	6.88	10.00	0.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	10	60.00	40.00	50.00	4.71	50.00	50.00	50.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	24	60.00	3.00	48.46	11.52	50.00	50.00	50.00
SELENIUM, DISSOLVED (UG/L AS SE)	11	1.00	0.00	0.82	0.40	1.00	1.00	1.00
SELENIUM, TOTAL (UG/L AS SE)	25	2.00	0.00	0.96	0.45	1.00	1.00	1.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	35	641.00	421.00	483.91	41.08	503.00	477.00	452.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	36	0.87	0.57	0.66	0.05	0.68	0.66	0.61
MERCURY, DISSOLVED (UG/L AS HG)	11	0.20	0.00	0.03	0.06	0.00	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	25	0.20	0.00	0.06	0.08	0.10	0.00	0.00

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	35500	11600	19784	8576	43.35	6.7	32330	31400	14900	12800	11970
NOVEMBER	39600	11600	21217	9204	43.38	7.0	34945	32500	14900	13800	11855
DECEMBER	33000	13100	21229	3937	18.55	7.2	29100	24350	21000	17550	15840
JANUARY	33100	17700	26806	4323	16.13	9.1	32230	29950	27500	25200	18070
FEBRUARY	32500	25400	29485	1531	5.19	9.2	32200	29950	29300	28700	26570
MARCH	30100	6300	24565	5584	22.73	8.4	29900	29150	25200	21100	10470
APRIL	31300	8700	21662	5165	23.84	7.1	30445	26425	20100	19200	14955
MAY	39600	9100	23599	9800	41.53	8.0	39500	31250	18700	17550	12100
JUNE	39600	19000	29292	7856	26.82	9.7	39500	38100	29650	21100	19355
JULY	38700	21900	30171	6225	20.63	10.3	38600	38450	28300	24750	22540
AUGUST	39300	18600	27606	7680	27.82	9.4	39100	38450	23500	21950	20100
SEPTEMBER	39300	16800	23864	6857	28.73	7.9	38315	28275	21650	17800	16900
ANNUAL	39600	6300	24917	7623	30.60	100.0	38900	29900	24500	19525	12585

06339100 KNIFE RIVER AT MANNING, ND

LOCATION.--Lat 47°14'10", long 102°46'10", in SE¼NW¼ sec.6, T.143 N., R.95 W., Dunn County, Hydrologic Unit 10130201, on left bank 50 ft (15 m) downstream from bridge on State Highway 22, and 0.4 mi (0.6 km) north of Manning.

DRAINAGE AREA.--205 mi^2 (531 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	86	24.50	0.00	8.48	8.02	16.00	6.50	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	86	1840.00	0.02	82.98	284.03	17.25	2.30	1.30
SPECIFIC CONDUCTANCE (MICROMHOS)	85	3600.00	250.00	1659.41	782.06	2155.00	1740.00	1040.00
OXYGEN, DISSOLVED (MG/L)	36	12.40	2.60	8.96	2.31	11.08	9.10	7.53
OXYGEN, DISSOLVED (PERCENT SATURATION)	36	106.00	25.00	79.58	16.72	93.00	81.00	70.00
PH (UNITS)	41	8.60	7.20	8.14	0.29	8.40	8.20	8.00
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	40	19.00	1.80	7.38	4.67	11.00	5.45	3.77
BICARBONATE (MG/L AS HCO3)	40	1180.00	93.00	580.90	248.85	765.75	579.00	448.25
CARBONATE (MG/L AS CO3)	40	11.00	0.00	1.30	2.72	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	36	2.30	0.69	1.21	0.38	1.40	1.10	0.98
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	36	2.30	0.32	0.96	0.41	1.10	0.89	0.71
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	36	0.31	0.00	0.09	0.08	0.12	0.06	0.04
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	36	0.62	0.00	0.16	0.21	0.35	0.04	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	36	0.25	0.03	0.09	0.04	0.10	0.08	0.06
PHOSPHORUS, DISSOLVED (MG/L AS P)	36	0.17	0.00	0.04	0.04	0.05	0.02	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	35	110.00	8.40	20.51	18.04	24.00	14.00	11.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	30	2.70	0.20	1.15	0.53	1.40	1.10	0.90
HARDNESS (MG/L AS CACO3)	41	420.00	55.00	253.76	87.47	315.00	260.00	205.00
HARDNESS, NONCARBONATE (MG/L CACO3)	40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	41	84.00	12.00	53.46	17.91	63.00	57.00	42.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	41	54.00	6.10	29.39	10.97	36.50	29.00	23.50
SODIUM, DISSOLVED (MG/L AS NA)	41	650.00	40.00	330.44	145.36	425.00	320.00	235.00
SODIUM PERCENT	41	89.00	54.00	72.12	7.18	76.00	73.00	68.00
POTASSIUM, DISSOLVED (MG/L AS K)	41	13.00	4.60	8.25	1.81	9.40	8.00	7.10
CHLORIDE, DISSOLVED (MG/L AS CL)	41	20.00	2.70	7.18	2.76	8.20	6.60	5.55
SULFATE, DISSOLVED (MG/L AS SO4)	41	2400.00	61.00	531.83	357.91	635.00	530.00	350.00
FLUORIDE, DISSOLVED (MG/L AS F)	41	0.90	0.10	0.55	0.21	0.70	0.60	0.40
SILICA, DISSOLVED (MG/L AS SIO2)	41	13.00	2.00	7.63	2.48	9.40	7.50	5.75
ARSENIC, DISSOLVED (UG/L AS AS)	10	3.00	1.00	1.70	0.82	2.25	1.50	1.00
ARSENIC, TOTAL (UG/L AS AS)	6	5.00	1.00	2.67	1.37	3.50	2.50	1.75
BARIUM, DISSOLVED (UG/L AS BA)	9	200.00	0.00	100.00	82.61	200.00	90.00	20.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	6	400.00	0.00	166.67	150.55	325.00	100.00	75.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	10	1.00	0.00	0.40	0.52	1.00	0.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	6	10.00	0.00	1.67	4.08	2.50	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	40	830.00	90.00	409.50	164.80	520.00	425.00	285.50
CHROMIUM, DISSOLVED (UG/L AS CR)	10	4.00	0.00	0.40	1.26	0.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	6	20.00	0.00	8.33	9.83	20.00	5.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	10	3.00	0.00	1.30	1.49	3.00	0.50	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	6	4.00	0.00	1.67	1.37	2.50	1.50	0.75
COPPER, DISSOLVED (UG/L AS CU)	10	12.00	2.00	6.50	3.63	10.00	5.00	3.75
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	6	10.00	5.00	7.17	2.04	9.25	7.00	5.00
IRON, DISSOLVED (UG/L AS FE)	40	470.00	0.00	101.90	98.30	107.50	75.00	40.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	290.00	60.00	163.33	80.42	230.00	155.00	97.50
MANGANESE, DISSOLVED (UG/L AS MN)	15	180.00	6.00	71.80	57.44	120.00	50.00	30.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	10	10.00	0.00	4.80	4.61	10.00	3.00	0.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	6	5.00	0.00	2.33	2.25	4.25	2.50	0.00
NICKEL, DISSOLVED (UG/L AS NI)	10	6.00	0.00	3.80	1.62	5.00	4.00	3.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	6	8.00	5.00	6.50	1.38	8.00	6.50	5.00
VANADIUM, DISSOLVED (UG/L AS V)	10	6.00	0.00	2.29	2.66	6.00	1.00	0.00
ZINC, DISSOLVED (UG/L AS ZN)	10	30.00	0.00	9.10	9.30	12.50	6.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	6	50.00	10.00	26.67	16.33	42.50	25.00	10.00
ALUMINUM, DISSOLVED (UG/L AS AL)	10	90.00	0.00	30.00	30.91	42.50	20.00	7.50
LITHIUM, DISSOLVED (UG/L AS LI)	10	50.00	9.00	31.00	13.76	40.00	38.00	18.50
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	6	40.00	7.00	26.17	11.32	32.50	30.00	16.75
SELENIUM, DISSOLVED (UG/L AS SE)	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	41	2400.00	183.00	1237.95	505.20	1590.00	1290.00	909.50
SOLIDS, DISSOLVED (TONS PER AC-FT)	41	3.26	0.25	1.68	0.69	2.17	1.75	1.24
MERCURY, DISSOLVED (UG/L AS HG)	10	0.50	0.00	0.14	0.21	0.35	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	6	0.80	0.00	0.18	0.31	0.35	0.05	0.00
SEDIMENT, SUSPENDED (MG/L)	37	173.00	11.00	68.73	36.04	86.50	62.00	43.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	37	71.00	0.00	2.96	11.72	0.78	0.34	0.15

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	7.40	0.64	2.19	1.28	58.77	0.7	4.50	2.90	2.10	1.10	0.90
NOVEMBER	2.90	0.91	1.79	0.73	40.61	0.6	2.90	2.68	1.40	1.20	1.00
DECEMBER	4.00	1.00	1.96	0.68	34.44	0.6	3.50	2.20	2.00	1.55	1.00
JANUARY	2.80	1.10	1.72	0.39	22.65	0.6	2.50	2.00	1.60	1.50	1.10
FEBURARY	3.00	1.00	1.47	0.57	38.68	0.4	2.50	2.00	1.20	1.00	1.00
MARCH	1630.00	1.10	137.52	297.04	216.00	44.2	906.00	100.00	5.60	1.55	1.17
APRIL	1300.00	1.30	106.51	234.52	220.19	33.1	889.45	74.25	27.00	11.00	2.01
MAY	584.00	0.15	23.90	68.96	288.50	7.7	120.60	16.50	6.30	0.77	0.22
JUNE	194.00	0.25	10.28	23.90	232.59	3.2	44.80	5.23	3.75	2.38	0.37
JULY	49.00	0.02	3.47	7.30	210.55	1.1	11.60	3.30	1.40	0.17	0.03
AUGUST	52.00	0.02	1.97	7.19	365.21	0.6	5.05	1.10	0.42	0.31	0.05
SEPTEMBER	885.00	0.05	23.06	123.40	535.23	7.2	39.20	1.73	0.39	0.26	0.13
ANNUAL	1630.00	0.02	26.40	124.58	471.89	100.0	81.50	4.08	2.00	1.10	0.17

06339180 STRAY CREEK NEAR MANNING, ND

LOCATION.--Lat 47°12'47", long 102°37'22", in SW¼SE¼SW¼ sec.8, T.143 N., R.94 W., Dunn County, Hydrologic Unit 10130201, on left bank 200 ft (61 m) upstream from bridge on county road, 6.9 mi (11.1 km) east of Manning and 3.0 mi (4.8 km) above mouth.

DRAINAGE AREA.--30.3 mi^2 (78.4 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1978 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	14	20.00	0.00	8.86	7.57	17.25	8.75	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	14	20.10	0.01	4.06	6.47	9.64	0.43	0.06
SPECIFIC CONDUCTANCE (MICROMHOS)	13	5430.00	550.00	2379.23	1374.78	3355.00	2190.00	1305.00
OXYGEN, DISSOLVED (MG/L)	12	14.80	2.60	10.02	3.44	13.08	10.45	8.23
OXYGEN, DISSOLVED (PERCENT SATURATION)	12	140.00	31.00	91.33	31.51	119.50	92.50	68.00
PH (UNITS)	12	9.60	7.50	8.40	0.51	8.58	8.40	8.08
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	12	7.70	0.20	3.39	2.05	4.75	3.30	2.13
BICARBONATE (MG/L AS HCO3)	12	832.00	98.00	437.42	226.25	516.50	468.50	261.25
CARBONATE (MG/L AS CO3)	12	156.00	0.00	19.08	44.76	9.25	3.00	0.00
NITROGEN, TOTAL (MG/L AS N)	11	8.70	0.80	2.31	2.27	3.10	1.40	0.98
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11	7.60	0.79	2.04	1.94	2.30	1.30	0.95
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11	0.65	0.01	0.19	0.23	0.41	0.07	0.02
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	11	0.60	0.00	0.10	0.19	0.10	0.01	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	11	0.84	0.05	0.21	0.26	0.16	0.11	0.05
PHOSPHORUS, DISSOLVED (MG/L AS P)	11	0.47	0.02	0.09	0.13	0.09	0.05	0.02
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	11	46.00	15.00	25.73	10.53	34.00	22.00	16.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	8	15.00	0.50	2.69	4.99	1.42	1.00	0.63
HARDNESS (MG/L AS CACO3)	11	920.00	210.00	456.36	195.97	570.00	400.00	330.00
HARDNESS, NONCARBONATE (MG/L CACO3)	11	170.00	0.00	65.00	67.52	120.00	52.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	11	93.00	32.00	59.36	19.40	77.00	53.00	46.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	11	180.00	30.00	75.27	43.35	90.00	61.00	49.00
SODIUM, DISSOLVED (MG/L AS NA)	11	1100.00	140.00	499.09	276.71	670.00	450.00	300.00
SODIUM PERCENT	11	83.00	57.00	67.27	8.47	73.00	71.00	59.00
POTASSIUM, DISSOLVED (MG/L AS K)	11	19.00	8.70	13.79	3.20	15.00	15.00	11.00
CHLORIDE, DISSOLVED (MG/L AS CL)	11	14.00	3.90	7.97	3.14	9.20	7.10	5.90
SULFATE, DISSOLVED (MG/L AS SO4)	11	2500.00	440.00	1113.64	597.97	1400.00	1000.00	700.00
FLUORIDE, DISSOLVED (MG/L AS F)	11	0.60	0.10	0.34	0.14	0.40	0.30	0.30
SILICA, DISSOLVED (MG/L AS SIO2)	11	9.80	0.70	3.66	2.94	5.60	2.50	1.30
ARSENIC, DISSOLVED (UG/L AS AS)	4	9.00	3.00					
ARSENIC, TOTAL (UG/L AS AS)	4	10.00	3.00					
BARIUM, DISSOLVED (UG/L AS BA)	4	130.00	0.00					
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	4	400.00	0.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	4	3.00	0.00					
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	4	0.00	0.00					
BORON, DISSOLVED (UG/L AS B)	11	1100.00	380.00	630.00	252.31	870.00	520.00	410.00
CHROMIUM, DISSOLVED (UG/L AS CR)	4	0.00	0.00					
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	4	20.00	0.00					
COBALT, DISSOLVED (UG/L AS CO)	4	8.00	0.00					
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	4	15.00	0.00					
COPPER, DISSOLVED (UG/L AS CU)	4	30.00	9.00					
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	31.00	4.00					
IRON, DISSOLVED (UG/L AS FE)	11	330.00	10.00	84.27	92.35	110.00	47.00	30.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	4	670.00	50.00					
MANGANESE, DISSOLVED (UG/L AS MN)	4	400.00	40.00					
MOLYBDENUM, DISSOLVED (UG/L AS MO)	4	25.00	0.00					
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	4	3.00	0.00					
NICKEL, DISSOLVED (UG/L AS NI)	4	5.00	2.00					
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	4	37.00	7.00					
VANADIUM, DISSOLVED (UG/L AS V)	4	9.00	1.00					
ZINC, DISSOLVED (UG/L AS ZN)	4	33.00	4.00					
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	4	310.00	20.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	4	100.00	0.00					
LITHIUM, DISSOLVED (UG/L AS LI)	4	87.00	14.00					
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	4	90.00	40.00					
SELENIUM, DISSOLVED (UG/L AS SE)	4	1.00	0.00					
SELENIUM, TOTAL (UG/L AS SE)	4	2.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	11	4360.00	755.00	2078.64	1019.52	2650.00	1930.00	1410.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	11	5.93	1.03	2.83	1.39	3.60	2.62	1.92
MERCURY, DISSOLVED (UG/L AS HG)	4	0.30	0.00					
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	4	0.50	0.10					
SEDIMENT, SUSPENDED (MG/L)	14	1030.00	3.00	157.86	317.30	64.75	33.00	19.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	14	56.00	0.00	5.95	15.85	0.82	0.02	0.00

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1978 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	0.04	0.00	0.01	0.01	122.80	0.1	0.03	0.02	0.01	0.00	0.00
NOVEMBER	0.15	0.00	0.06	0.04	76.49	0.5	0.14	0.09	0.05	0.02	0.00
DECEMBER	0.10	0.00	0.02	0.02	139.21	0.2	0.07	0.03	0.00	0.00	0.00
JANUARY	0.01	0.00	0.00	0.00	552.19	0.0	0.00	0.00	0.00	0.00	0.00
FEBRUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
MARCH	20.00	0.00	2.64	4.91	186.25	26.2	17.10	2.00	0.45	0.00	0.00
APRIL	70.00	0.07	6.24	12.97	207.71	59.9	41.50	2.50	1.25	0.40	0.08
MAY	0.94	0.00	0.19	0.26	135.27	1.9	0.76	0.33	0.07	0.00	0.00
JUNE	46.00	0.00	1.16	6.06	523.11	11.1	4.11	0.10	0.04	0.00	0.00
JULY	0.02	0.00	0.00	0.00	357.33	0.0	0.02	0.00	0.00	0.00	0.00
AUGUST	0.09	0.00	0.01	0.02	304.67	0.1	0.06	0.00	0.00	0.00	0.00
SEPTEMBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
ANNUAL	70.00	0.00	0.85	4.66	545.45	100.0	2.00	0.06	0.00	0.00	0.00

06339300 KNIFE RIVER AT MARSHALL, ND

LOCATION.--Lat 47°08'17", long 102°20'00", NW¼ sec.10, T.142 N., R.92 W., Dunn County, Hydrologic Unit 10130201, and on right bank 250 ft (75 m) downstream from bridge on State Highway 8 in Marshall.

DRAINAGE AREA.--722 mi^2 (1,870 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	85	28.00	0.00	8.52	8.56	16.75	6.50	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	86	3369.99	0.34	198.85	528.71	63.25	10.00	5.15
SPECIFIC CONDUCTANCE (MICROMHOS)	86	3680.00	290.00	1840.23	868.34	2462.50	1880.00	1058.75
OXYGEN, DISSOLVED (MG/L)	34	16.20	6.00	9.67	2.22	11.13	9.15	8.28
OXYGEN, DISSOLVED (PERCENT SATURATION)	34	129.00	63.00	87.85	15.80	97.75	89.50	73.50
PH (UNITS)	41	8.80	7.50	8.24	0.33	8.50	8.40	7.95
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	41	39.00	0.90	7.41	8.17	8.70	3.80	2.70
BICARBONATE (MG/L AS HCO3)	41	1230.00	124.00	595.56	253.00	802.50	604.00	421.50
CARBONATE (MG/L AS CO3)	41	29.00	0.00	6.10	8.32	10.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	36	7.10	0.65	1.37	1.07	1.50	1.10	0.94
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	36	6.20	0.24	1.10	0.96	1.10	0.85	0.66
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	36	0.61	0.00	0.09	0.11	0.12	0.06	0.03
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	36	0.70	0.00	0.19	0.23	0.34	0.06	0.00
PHOSPHORUS, TOTAL (MG/L AS P)	36	0.22	0.02	0.09	0.05	0.13	0.07	0.04
PHOSPHORUS, DISSOLVED (MG/L AS P)	36	0.14	0.00	0.03	0.03	0.03	0.02	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	36	42.00	7.50	16.21	9.31	16.00	12.50	11.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	31	3.30	0.30	1.27	0.75	1.70	1.20	0.60
HARDNESS (MG/L AS CACO3)	41	710.00	82.00	294.44	117.77	370.00	280.00	215.00
HARDNESS, NONCARBONATE (MG/L CACO3)	41	220.00	0.00	5.37	34.36	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	41	120.00	18.00	57.71	21.72	71.50	57.00	44.50
MAGNESIUM, DISSOLVED (MG/L AS MG)	41	100.00	8.90	36.29	16.17	46.00	35.00	26.50
SODIUM, DISSOLVED (MG/L AS NA)	41	700.00	59.00	365.49	160.20	510.00	360.00	270.00
SODIUM PERCENT	41	88.00	51.00	71.76	8.50	77.00	74.00	65.00
POTASSIUM, DISSOLVED (MG/L AS K)	41	13.00	5.20	9.19	1.50	10.00	9.30	8.25
CHLORIDE, DISSOLVED (MG/L AS CL)	41	18.00	2.90	6.08	2.42	6.90	5.60	4.80
SULFATE, DISSOLVED (MG/L AS SO4)	41	1000.00	100.00	572.44	225.90	775.00	560.00	435.00
FLUORIDE, DISSOLVED (MG/L AS F)	41	1.00	0.10	0.50	0.20	0.60	0.50	0.40
SILICA, DISSOLVED (MG/L AS SIO2)	41	16.00	4.20	9.05	3.25	11.00	8.30	6.20
ARSENIC, DISSOLVED (UG/L AS AS)	10	3.00	1.00	2.20	0.79	3.00	2.00	1.75
ARSENIC, TOTAL (UG/L AS AS)	7	10.00	2.00	3.43	2.94	3.00	2.00	2.00
BARIUM, DISSOLVED (UG/L AS BA)	9	200.00	0.00	75.56	61.46	105.00	80.00	25.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	7	500.00	0.00	185.71	167.62	300.00	100.00	100.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	10	3.00	0.00	0.80	0.92	1.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	40	740.00	30.00	341.50	146.12	440.00	345.00	265.00
CHROMIUM, DISSOLVED (UG/L AS CR)	10	10.00	0.00	2.40	4.20	5.50	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	7	60.00	0.00	15.71	20.70	20.00	10.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	10	8.00	0.00	2.30	2.50	3.00	3.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	7	19.00	0.00	4.43	6.55	4.00	2.00	1.00
COPPER, DISSOLVED (UG/L AS CU)	10	25.00	1.00	10.00	7.89	14.50	8.50	4.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	7	83.00	5.00	22.57	27.80	25.00	9.00	6.00
IRON, DISSOLVED (UG/L AS FE)	41	180.00	0.00	54.24	38.19	70.00	50.00	30.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	7	1200.00	120.00	307.14	394.37	190.00	160.00	150.00
MANGANESE, DISSOLVED (UG/L AS MN)	15	160.00	1.00	38.80	49.83	50.00	20.00	5.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	10	25.00	0.00	7.70	7.26	10.00	7.50	2.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	7	6.00	0.00	2.71	1.98	4.00	3.00	1.00
NICKEL, DISSOLVED (UG/L AS NI)	10	7.00	0.00	3.80	2.15	6.00	4.00	2.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	7	76.00	3.00	17.43	26.05	13.00	8.00	4.00
VANADIUM, DISSOLVED (UG/L AS V)	10	8.00	0.00	2.64	2.98	6.00	1.10	0.00
ZINC, DISSOLVED (UG/L AS ZN)	10	24.00	3.00	10.20	7.02	12.50	10.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	7	210.00	20.00	50.00	70.95	40.00	20.00	20.00
ALUMINUM, DISSOLVED (UG/L AS AL)	10	180.00	0.00	38.00	53.91	52.50	20.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	10	60.00	10.00	34.40	15.14	42.50	35.00	26.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	7	60.00	10.00	34.29	16.18	40.00	40.00	20.00
SELENIUM, DISSOLVED (UG/L AS SE)	10	1.00	0.00	0.10	0.32	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	7	2.00	0.00	0.43	0.79	1.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	41	2560.00	304.00	1373.05	542.78	1815.00	1370.00	1025.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	41	3.48	0.41	1.87	0.74	2.47	1.86	1.40
MERCURY, DISSOLVED (UG/L AS HG)	10	0.50	0.00	0.09	0.17	0.15	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	7	0.20	0.00	0.10	0.10	0.20	0.10	0.00
SEDIMENT, SUSPENDED (MG/L)	35	1510.00	23.00	130.06	245.58	124.00	83.00	49.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	35	477.00	0.05	32.44	100.14	5.80	1.50	0.62

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	36.00	4.70	11.35	6.91	60.85	1.3	29.30	15.00	10.00	6.00	5.00
NOVEMBER	12.00	4.50	7.28	2.24	30.70	0.8	11.00	9.50	6.10	5.60	4.50
DECEMBER	9.50	4.00	6.42	1.85	28.81	0.8	9.50	8.50	5.80	4.80	4.00
JANUARY	7.50	2.80	4.73	0.94	19.84	0.6	6.50	5.50	4.50	4.50	2.80
FEBRUARY	6.00	1.50	4.06	1.01	24.88	0.4	5.00	4.50	4.50	4.00	1.65
MARCH	3280.00	3.50	417.17	785.79	188.36	49.0	2330.99	420.00	14.00	5.00	3.50
APRIL	1530.00	8.60	228.05	349.21	153.13	25.9	1179.00	236.75	83.50	30.75	9.56
MAY	566.00	3.30	53.47	85.21	159.37	6.3	205.20	51.00	32.00	6.00	3.44
JUNE	1500.00	3.70	71.81	215.80	300.52	8.2	417.25	38.25	16.00	9.45	4.31
JULY	80.00	1.20	14.97	15.39	102.78	1.8	49.00	18.00	13.00	3.60	1.40
AUGUST	86.00	1.10	8.36	11.88	142.09	1.0	22.60	8.30	6.40	3.40	1.30
SEPTEMBER	925.00	0.34	34.69	127.39	367.21	3.9	131.70	18.25	4.70	1.90	0.42
ANNUAL	3280.00	0.34	72.21	286.69	397.02	100.0	292.30	19.00	6.95	4.50	2.00

06339490 ELM CREEK NEAR GOLDEN VALLEY, ND

LOCATION.--Lat 47°06'25", long 102°03'05", in SE¼NW¼ sec.23, T.142 N., R.90 W., Mercer County, Hydrologic Unit 10130201, on right bank 60 ft (18 m) upstream from highway bridge, and 13.5 mi (21.7 km) south of Golden Valley.

DRAINAGE AREA.--82 mi^2 (212 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	39	20.00	0.00	6.77	6.61	11.00	5.00	1.50
STREAMFLOW, INSTANTANEOUS (CFS)	39	460.00	0.01	55.58	122.98	14.00	3.10	0.09
SPECIFIC CONDUCTANCE (MICROMHOS)	39	2999.99	250.00	1351.20	784.07	2040.00	1160.00	760.00
OXYGEN, DISSOLVED (MG/L)	13	12.70	3.60	8.75	3.08	10.90	9.40	5.75
OXYGEN, DISSOLVED (PERCENT SATURATION)	13	99.00	38.00	75.85	21.60	93.00	86.00	56.00
PH (UNITS)	15	8.70	7.20	8.06	0.38	8.30	8.10	7.80
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	15	36.00	1.30	6.89	9.50	6.30	3.50	2.20
BICARBONATE (MG/L AS HCO3)	16	886.00	86.00	355.44	241.62	558.50	289.50	155.00
CARBONATE (MG/L AS CO3)	16	14.00	0.00	1.13	3.58	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	13	2.60	0.80	1.38	0.48	1.70	1.20	1.05
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	13	1.40	0.72	1.09	0.23	1.25	1.10	0.88
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	13	0.68	0.00	0.15	0.20	0.25	0.05	0.03
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	13	0.96	0.00	0.15	0.27	0.26	0.02	0.00
PHOSPHORUS, TOTAL (MG/L AS P)	13	0.44	0.07	0.20	0.13	0.31	0.16	0.10
PHOSPHORUS, DISSOLVED (MG/L AS P)	13	0.34	0.03	0.11	0.09	0.16	0.07	0.05
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	13	23.00	9.60	16.20	3.82	19.50	16.00	13.50
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	13	3.90	0.60	1.76	1.03	2.85	1.30	1.10
HARDNESS (MG/L AS CACO3)	16	450.00	71.00	211.94	137.34	305.00	165.00	88.25
HARDNESS, NONCARBONATE (MG/L CACO3)	16	130.00	0.00	12.63	33.91	3.50	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	16	82.00	15.00	40.44	23.42	58.25	34.00	18.25
MAGNESIUM, DISSOLVED (MG/L AS MG)	16	62.00	8.20	27.19	19.30	41.00	19.50	10.25
SODIUM, DISSOLVED (MG/L AS NA)	16	530.00	46.00	249.31	172.01	442.50	190.00	107.50
SODIUM PERCENT	16	78.00	54.00	68.38	7.95	76.75	69.00	60.75
POTASSIUM, DISSOLVED (MG/L AS K)	16	16.00	5.20	9.46	3.01	11.75	9.00	7.20
CHLORIDE, DISSOLVED (MG/L AS CL)	16	25.00	1.90	7.31	7.00	9.93	4.20	2.80
SULFATE, DISSOLVED (MG/L AS SO4)	16	940.00	100.00	432.50	309.96	790.00	310.00	182.50
FLUORIDE, DISSOLVED (MG/L AS F)	16	0.50	0.10	0.21	0.12	0.28	0.20	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	16	18.00	1.30	8.18	4.79	11.75	7.30	5.00
ARSENIC, DISSOLVED (UG/L AS AS)	5	3.00	1.00	2.00	1.00	3.00	2.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	3	3.00	2.00					
BARIUM, DISSOLVED (UG/L AS BA)	5	200.00	0.00	78.00	76.94	150.00	50.00	20.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	3	300.00	0.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	5	1.00	0.00	0.40	0.55	1.00	0.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	3	10.00	0.00					
BORON, DISSOLVED (UG/L AS B)	16	510.00	0.00	238.12	140.58	370.00	215.00	130.00
CHROMIUM, DISSOLVED (UG/L AS CR)	5	4.00	0.00	0.80	1.79	2.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	3	5.00	0.00					
COBALT, DISSOLVED (UG/L AS CO)	5	3.00	0.00	1.20	1.64	3.00	0.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	3	4.00	0.00					
COPPER, DISSOLVED (UG/L AS CU)	5	9.00	2.00	5.40	2.70	8.00	5.00	3.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	3	11.00	3.00					
IRON, DISSOLVED (UG/L AS FE)	15	450.00	10.00	174.67	134.16	250.00	120.00	80.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	3	270.00	80.00					
MANGANESE, DISSOLVED (UG/L AS MN)	8	120.00	9.00	69.87	36.88	100.00	70.00	42.50
MOLYBDENUM, DISSOLVED (UG/L AS MO)	5	10.00	1.00	4.80	4.76	10.00	2.00	1.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	3	6.00	1.00					
NICKEL, DISSOLVED (UG/L AS NI)	5	5.00	3.00	3.80	0.84	4.50	4.00	3.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	3	9.00	5.00					
VANADIUM, DISSOLVED (UG/L AS V)	5	4.30	0.20	1.98	1.77	3.85	1.00	0.60
ZINC, DISSOLVED (UG/L AS ZN)	5	30.00	7.00	17.40	9.15	25.00	20.00	8.50
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	3	30.00	10.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	5	170.00	0.00	54.00	68.41	115.00	20.00	10.00
LITHIUM, DISSOLVED (UG/L AS LI)	5	50.00	10.00	26.00	15.17	40.00	20.00	15.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	3	50.00	20.00					
SELENIUM, DISSOLVED (UG/L AS SE)	5	1.00	0.00	0.20	0.45	0.50	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	3	1.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	16	1900.00	227.00	966.25	624.39	1707.50	742.50	444.75
SOLIDS, DISSOLVED (TONS PER AC-FT)	16	2.58	0.31	1.31	0.85	2.32	1.01	0.61
MERCURY, DISSOLVED (UG/L AS HG)	5	0.50	0.00	0.10	0.22	0.25	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	3	0.00	0.00					
SEDIMENT, SUSPENDED (MG/L)	13	864.00	15.00	131.31	222.31	93.00	74.00	50.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	13	826.00	0.00	63.92	228.98	0.79	0.07	0.01

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	15.00	0.00	0.48	2.06	425.95	0.5	2.83	0.05	0.00	0.00	0.00
NOVEMBER	0.13	0.00	0.01	0.03	256.33	0.0	0.12	0.00	0.00	0.00	0.00
DECEMBER	0.25	0.00	0.03	0.06	215.06	0.0	0.20	0.00	0.00	0.00	0.00
JANUARY	0.05	0.00	0.01	0.01	248.69	0.0	0.05	0.00	0.00	0.00	0.00
FEBURARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
MARCH	982.00	0.00	51.93	166.86	321.30	58.9	451.30	3.65	0.00	0.00	0.00
APRIL	302.00	0.17	32.85	64.91	197.60	36.1	206.50	20.00	4.20	1.80	0.32
MAY	32.00	0.00	3.42	6.24	182.41	3.9	18.30	3.55	1.10	0.04	0.00
JUNE	10.00	0.00	0.36	1.28	355.54	0.4	2.22	0.13	0.01	0.00	0.00
JULY	4.20	0.00	0.14	0.54	388.60	0.2	0.79	0.01	0.00	0.00	0.00
AUGUST	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
SEPTEMBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
ANNUAL	982.00	0.00	7.48	54.30	725.81	100.0	11.00	0.06	0.00	0.00	0.00

06339500 KNIFE RIVER NEAR GOLDEN VALLEY, ND

LOCATION.--Lat 47°09'40", long 102°03'39", in SE¼ sec.34, T.143 N., R.90 W., Mercer County, Hydrologic Unit 10130201, on left bank 6 ft (2 m) downstream from highway bridge, 4.5 mi (7.2 km) downstream from Elm Creek, and 9 mi (14 km) south of Golden Valley.

DRAINAGE AREA.--1,230 mi^2 (3,190 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	49	24.50	0.00	8.82	8.85	18.50	6.50	1.00
STREAMFLOW, INSTANTANEOUS (CFS)	49	6395.99	1.10	529.97	1231.09	456.00	19.00	6.63
SPECIFIC CONDUCTANCE (MICROMHOS)	49	4380.00	275.00	1771.33	1000.94	2510.00	1850.00	810.00
PH (UNITS)	6	8.30	7.50	7.93	0.31	8.22	7.95	7.65
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	6	6.90	2.50	5.22	1.94	6.75	6.05	2.95
BICARBONATE (MG/L AS HCO3)	6	667.00	98.00	328.50	231.04	576.25	265.00	122.00
CARBONATE (MG/L AS CO3)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	6	310.00	76.00	184.50	103.94	310.00	160.00	87.25
HARDNESS, NONCARBONATE (MG/L CACO3)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	6	54.00	18.00	34.33	16.22	54.00	30.00	19.50
MAGNESIUM, DISSOLVED (MG/L AS MG)	6	43.00	7.50	24.08	15.67	43.00	20.50	9.38
SODIUM, DISSOLVED (MG/L AS NA)	6	420.00	36.00	198.00	155.06	352.50	170.00	55.50
SODIUM PERCENT	6	74.00	49.00	64.00	9.53	72.50	65.50	55.75
POTASSIUM, DISSOLVED (MG/L AS K)	6	9.40	5.60	7.67	1.48	9.10	7.70	6.35
CHLORIDE, DISSOLVED (MG/L AS CL)	6	9.00	2.70	5.23	2.53	8.02	4.30	3.22
SULFATE, DISSOLVED (MG/L AS SO4)	6	660.00	72.00	340.33	245.57	592.50	310.00	108.00
FLUORIDE, DISSOLVED (MG/L AS F)	6	0.60	0.10	0.35	0.19	0.52	0.35	0.17
SILICA, DISSOLVED (MG/L AS SIO2)	6	9.40	3.60	5.73	2.32	7.52	5.30	3.82
BORON, DISSOLVED (UG/L AS B)	6	260.00	0.00	98.33	89.76	162.50	75.00	37.50
IRON, DISSOLVED (UG/L AS FE)	6	570.00	40.00	221.67	206.44	412.50	155.00	47.50
MANGANESE, DISSOLVED (UG/L AS MN)	6	80.00	10.00	43.33	31.41	80.00	35.00	17.50
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	6	1560.00	259.00	794.83	548.37	1357.50	689.00	276.25
SOLIDS, DISSOLVED (TONS PER AC-FT)	6	2.12	0.35	1.08	0.75	1.84	0.93	0.37

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION	PERCENT OF ANNUAL RUNOFF	95	75	50 MEDIAN	25	5
OCTOBER	70.00	5.10	17.77	14.31	80.55	1.4	53.30	17.00	13.00	8.00	5.82
NOVEMBER	16.00	5.00	9.49	3.52	37.07	0.7	16.00	12.25	8.00	6.95	5.50
DECEMBER	15.00	6.00	9.80	3.06	31.23	0.7	15.00	12.50	8.50	7.50	6.00
JANUARY	10.00	1.50	5.51	1.78	32.40	0.4	8.00	6.50	5.50	5.00	2.00
FEBRUARY	6.50	1.00	4.36	2.26	51.90	0.3	6.50	6.00	5.50	1.50	1.00
MARCH	7520.00	1.00	666.63	1474.04	221.12	50.8	4361.99	616.00	10.00	6.00	1.00
APRIL	2050.00	15.00	363.12	478.26	131.71	26.8	1600.50	450.00	164.00	71.50	15.55
MAY	390.00	2.40	73.32	85.73	116.93	5.6	314.80	89.00	55.00	8.25	2.77
JUNE	2180.00	2.60	104.50	284.68	272.42	7.7	511.05	78.25	27.00	17.75	6.11
JULY	99.00	1.20	29.35	27.07	92.24	2.2	88.00	41.00	24.00	4.50	1.94
AUGUST	67.00	1.10	9.97	11.64	116.81	0.8	38.40	12.00	6.00	4.00	1.20
SEPTEMBER	811.00	2.30	36.62	114.72	313.24	2.7	173.30	20.25	6.75	4.98	2.60
ANNUAL	7520.00	1.00	111.45	497.24	446.14	100.0	421.95	33.00	10.00	6.00	2.00

06339550 COYOTE CREEK NEAR ZAP, ND

LOCATION.--Lat 47°11'57", long 101°54'42", in NW¼SW¼SW¼ sec.13, T.143 N., R.89 W., Mercer County, Hydrologic Unit 10130201, on right bank 40 ft (12 m) upstream from bridge on county road 6.0 mi (9.6 km) south of Zap, and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--65.2 mi^2 (169 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	34	30.00	0.00	10.37	9.88	19.25	9.00	0.38
STREAMFLOW, INSTANTANEOUS (CFS)	34	204.00	0.02	11.60	35.99	3.23	0.93	0.48
SPECIFIC CONDUCTANCE (MICROMHOS)	30	3300.00	375.00	1871.33	621.05	2115.00	2000.00	1465.00
OXYGEN, DISSOLVED (MG/L)	29	12.80	6.60	10.47	1.90	12.10	11.20	9.00
OXYGEN, DISSOLVED (PERCENT SATURATION)	29	130.00	72.00	98.21	15.18	110.00	95.00	86.50
PH (UNITS)	30	8.50	7.70	8.25	0.24	8.40	8.30	8.00
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	30	27.00	1.50	5.67	5.11	6.75	3.50	2.77
BICARBONATE (MG/L AS HCO3)	30	1050.00	106.00	541.87	227.55	623.50	540.00	405.75
CARBONATE (MG/L AS CO3)	30	26.00	0.00	4.19	6.14	6.25	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	30	3.20	0.42	1.10	0.63	1.20	0.97	0.70
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	30	2.20	0.29	0.85	0.40	0.95	0.73	0.64
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	30	0.48	0.00	0.10	0.12	0.12	0.04	0.03
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	30	1.60	0.00	0.15	0.33	0.13	0.02	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	30	0.47	0.02	0.07	0.10	0.07	0.04	0.03
PHOSPHORUS, DISSOLVED (MG/L AS P)	30	0.34	0.00	0.04	0.07	0.04	0.02	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	30	43.00	0.80	14.83	7.93	15.25	12.50	11.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	26	4.00	0.10	0.90	0.82	0.98	0.60	0.48
HARDNESS (MG/L AS CACO3)	30	550.00	100.00	317.00	107.36	372.50	325.00	240.00
HARDNESS, NONCARBONATE (MG/L CACO3)	30	110.00	0.00	9.03	26.12	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	30	95.00	22.00	59.80	20.16	76.25	61.00	44.75
MAGNESIUM, DISSOLVED (MG/L AS MG)	30	75.00	11.00	40.70	14.21	50.00	42.50	31.50
SODIUM, DISSOLVED (MG/L AS NA)	30	650.00	37.00	330.67	138.37	382.50	340.00	247.50
SODIUM PERCENT	30	86.00	43.00	69.17	10.83	75.50	70.00	62.00
POTASSIUM, DISSOLVED (MG/L AS K)	30	15.00	6.10	10.30	2.02	11.00	10.00	9.23
CHLORIDE, DISSOLVED (MG/L AS CL)	30	13.00	2.30	7.42	2.56	8.98	7.30	5.48
SULFATE, DISSOLVED (MG/L AS SO4)	30	1000.00	100.00	563.33	195.81	665.00	600.00	447.50
FLUORIDE, DISSOLVED (MG/L AS F)	30	0.50	0.10	0.31	0.10	0.40	0.30	0.28
SILICA, DISSOLVED (MG/L AS SIO2)	30	300.00	3.40	18.37	53.28	11.00	8.70	6.88
ARSENIC, DISSOLVED (UG/L AS AS)	9	3.00	1.00	1.78	0.83	2.50	2.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	6	3.00	1.00	2.17	0.75	3.00	2.00	1.75
BARIUM, DISSOLVED (UG/L AS BA)	9	100.00	0.00	55.56	38.12	90.00	70.00	20.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	6	200.00	0.00	100.00	89.44	200.00	100.00	0.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	9	1.00	0.00	0.56	0.53	1.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	30	700.00	90.00	360.33	121.90	422.50	365.00	300.00
CHROMIUM, DISSOLVED (UG/L AS CR)	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	6	10.00	0.00	3.33	5.16	10.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	9	3.00	0.00	2.11	1.36	3.00	3.00	0.50
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	6	4.00	0.00	1.67	1.63	3.25	1.50	0.00
COPPER, DISSOLVED (UG/L AS CU)	9	14.00	2.00	5.89	4.34	10.00	4.00	2.50
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	6	28.00	3.00	9.83	9.33	15.25	6.50	3.75
IRON, DISSOLVED (UG/L AS FE)	30	290.00	0.00	54.13	63.78	60.00	30.00	18.50
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	260.00	60.00	143.33	73.94	200.00	145.00	67.50
MANGANESE, DISSOLVED (UG/L AS MN)	9	190.00	18.00	66.44	51.71	80.00	50.00	35.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	9	17.00	1.00	7.67	5.15	10.00	10.00	3.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	6	6.00	0.00	2.33	2.34	4.50	2.00	0.00
NICKEL, DISSOLVED (UG/L AS NI)	9	5.00	2.00	3.56	1.13	4.50	4.00	2.50
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	6	11.00	6.00	8.50	2.17	11.00	8.00	6.75
VANADIUM, DISSOLVED (UG/L AS V)	9	6.00	0.00	2.03	2.35	4.20	1.00	0.45
ZINC, DISSOLVED (UG/L AS ZN)	9	10.00	3.00	7.56	3.43	10.00	10.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	6	30.00	10.00	21.67	7.53	30.00	20.00	17.50
ALUMINUM, DISSOLVED (UG/L AS AL)	9	80.00	0.00	20.00	27.84	35.00	10.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	9	67.00	20.00	46.67	14.91	60.00	50.00	36.50
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	6	70.00	10.00	41.67	21.37	62.50	40.00	25.00
SELENIUM, DISSOLVED (UG/L AS SE)	9	1.00	0.00	0.11	0.33	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	6	1.00	0.00	0.17	0.41	0.25	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	30	2420.00	233.00	1306.57	471.94	1475.00	1370.00	1017.50
SOLIDS, DISSOLVED (TONS PER AC-FT)	30	3.29	0.32	1.78	0.64	2.01	1.87	1.38
MERCURY, DISSOLVED (UG/L AS HG)	9	0.60	0.00	0.12	0.22	0.25	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	6	0.30	0.00	0.12	0.15	0.30	0.05	0.00
SEDIMENT, SUSPENDED (MG/L)	33	638.00	14.00	65.00	104.57	62.00	44.00	32.50
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	33	351.00	0.00	11.65	60.99	0.43	0.12	0.05

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	10.00	0.00	0.78	1.50	192.32	0.7	3.81	0.75	0.29	0.15	0.00
NOVEMBER	1.70	0.28	0.68	0.24	35.61	0.6	1.20	0.80	0.62	0.50	0.39
DECEMBER	1.70	0.10	0.62	0.37	59.25	0.6	1.53	0.90	0.50	0.40	0.17
JANUARY	1.20	0.00	0.41	0.29	70.97	0.4	0.96	0.62	0.30	0.20	0.00
FEBURARY	0.40	0.00	0.11	0.13	114.85	0.1	0.35	0.21	0.05	0.00	0.00
MARCH	1500.00	0.00	71.51	222.32	310.91	63.9	530.00	26.00	7.00	0.29	0.00
APRIL	268.00	0.80	32.67	54.01	165.29	28.3	180.10	28.50	12.50	7.08	1.00
MAY	20.00	0.07	3.08	3.53	114.64	2.7	12.00	4.20	2.10	0.66	0.08
JUNE	18.00	0.03	1.76	2.64	150.46	1.5	7.43	1.63	1.00	0.62	0.13
JULY	23.00	0.00	1.06	2.74	257.75	1.0	3.73	0.99	0.54	0.00	0.00
AUGUST	5.00	0.00	0.22	0.62	276.73	0.2	1.16	0.20	0.00	0.00	0.00
SEPTEMBER	0.52	0.00	0.11	0.11	94.84	0.1	0.36	0.16	0.11	0.02	0.00
ANNUAL	1500.00	0.00	9.49	69.46	731.80	100.0	25.00	1.20	0.47	0.15	0.00

06339560 BRUSH CREEK NEAR BEULAH, ND

LOCATION.--Lat 47°10'43", long 101°47'05", in NW¼SW¼NW¼ sec.25, T.143 N., R.88 W., Mercer County, Hydrologic Unit 10130201, on right bank 60 ft (18 m) upstream from bridge on State Highway 49, and 6 mi (10 km) south of Beulah.

DRAINAGE AREA.--22 mi^2 (57 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	MEDIAN 75	MEDIAN 50	MEDIAN 25
TEMPERATURE (DEG C)	38	19.50	0.00	8.37	7.14	16.13	8.50	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	38	137.00	0.04	9.29	25.00	2.97	0.34	0.14
SPECIFIC CONDUCTANCE (MICROMHOS)	36	2310.00	250.00	1495.83	576.37	1837.50	1750.00	1092.50
OXYGEN, DISSOLVED (MG/L)	29	11.50	4.00	7.98	2.08	9.65	7.80	6.35
OXYGEN, DISSOLVED (PERCENT SATURATION)	19	107.00	43.00	75.21	15.93	84.00	73.00	68.00
PH (UNITS)	29	8.20	7.70	7.92	0.13	8.00	7.90	7.85
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	20	25.00	4.80	12.20	5.03	14.00	12.50	8.73
BICARBONATE (MG/L AS HCO3)	20	794.00	298.00	614.05	127.89	689.75	658.00	594.50
CARBONATE (MG/L AS CO3)	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	28	2.10	0.49	0.81	0.31	0.93	0.74	0.61
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10	1.20	0.44	0.81	0.26	0.98	0.82	0.58
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10	0.50	0.00	0.07	0.15	0.05	0.03	0.01
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	28	0.36	0.00	0.07	0.09	0.09	0.05	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	28	0.42	0.01	0.06	0.07	0.07	0.04	0.04
PHOSPHORUS, DISSOLVED (MG/L AS P)	29	0.28	0.00	0.04	0.05	0.04	0.03	0.02
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	28	40.00	7.20	13.72	7.39	16.75	11.00	9.25
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	23	1.00	0.10	0.36	0.24	0.50	0.30	0.20
HARDNESS (MG/L AS CACO3)	29	620.00	110.00	420.34	113.59	505.00	420.00	360.00
HARDNESS, NONCARBONATE (MG/L CACO3)	29	68.00	0.00	8.31	18.07	7.50	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	29	110.00	23.00	72.34	19.57	89.00	71.00	58.50
MAGNESIUM, DISSOLVED (MG/L AS MG)	29	97.00	13.00	58.17	16.92	66.00	57.00	51.50
SODIUM, DISSOLVED (MG/L AS NA)	29	380.00	43.00	257.69	71.67	295.00	280.00	260.00
SODIUM PERCENT	29	78.00	44.00	57.83	8.46	62.50	59.00	52.00
POTASSIUM, DISSOLVED (MG/L AS K)	29	14.00	6.70	9.68	1.70	11.00	9.50	8.25
CHLORIDE, DISSOLVED (MG/L AS CL)	29	9.80	2.30	6.30	1.88	7.30	6.50	4.95
SULFATE, DISSOLVED (MG/L AS SO4)	29	730.00	92.00	476.62	125.66	545.00	480.00	435.00
FLUORIDE, DISSOLVED (MG/L AS F)	29	0.80	0.10	0.27	0.12	0.30	0.30	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	29	17.00	5.60	10.38	2.61	12.00	10.00	8.80
ARSENIC, DISSOLVED (UG/L AS AS)	9	3.00	1.00	1.56	0.73	2.00	1.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	2	3.00	2.00					
BARIUM, DISSOLVED (UG/L AS BA)	9	200.00	50.00	85.56	48.51	100.00	60.00	50.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	2	200.00	0.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	2	1.00	1.00					
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	2	0.00	0.00					
BORON, DISSOLVED (UG/L AS B)	17	470.00	170.00	345.88	85.44	395.00	370.00	305.00
CHROMIUM, DISSOLVED (UG/L AS CR)	9	10.00	0.00	3.33	5.00	10.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	10.00	0.00					
COBALT, DISSOLVED (UG/L AS CO)	2	3.00	3.00					
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	2	3.00	3.00					
COPPER, DISSOLVED (UG/L AS CU)	9	10.00	0.00	2.67	4.21	6.00	1.00	0.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	2	7.00	6.00					
IRON, DISSOLVED (UG/L AS FE)	17	280.00	30.00	97.82	64.84	130.00	90.00	50.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	300.00	100.00					
MANGANESE, DISSOLVED (UG/L AS MN)	9	280.00	30.00	89.22	74.89	95.00	70.00	50.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	9	21.00	0.00	7.11	6.99	10.00	10.00	0.50
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	2	2.00	1.00					
NICKEL, DISSOLVED (UG/L AS NI)	2	3.00	0.00					
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	5.00	4.00					
VANADIUM, DISSOLVED (UG/L AS V)	2	6.00	6.00					
ZINC, DISSOLVED (UG/L AS ZN)	9	10.00	0.00	5.67	3.71	10.00	6.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	20.00	10.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	9	70.00	0.00	11.11	22.61	10.00	0.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	9	100.00	30.00	67.67	25.19	85.00	80.00	39.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	2	90.00	30.00					
SELENIUM, DISSOLVED (UG/L AS SE)	9	3.00	0.00	0.33	1.00	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	2	0.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	29	1650.00	263.00	1187.10	289.83	1340.00	1230.00	1150.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	29	2.24	0.36	1.61	0.39	1.82	1.67	1.57
MERCURY, DISSOLVED (UG/L AS HG)	9	2.80	0.00	0.34	0.92	0.15	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	3	0.30	0.10					
SEDIMENT, SUSPENDED (MG/L)	31	105.00	3.00	22.03	27.36	32.00	8.00	4.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	30	39.00	0.00	1.91	7.28	0.04	0.01	0.00

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	0.70	0.07	0.25	0.13	50.12	1.7	0.51	0.30	0.26	0.16	0.10
NOVEMBER	0.45	0.14	0.28	0.09	32.24	1.8	0.42	0.36	0.30	0.18	0.14
DECEMBER	0.50	0.00	0.16	0.14	87.45	1.1	0.41	0.28	0.10	0.06	0.00
JANUARY	0.16	0.00	0.02	0.04	145.53	0.2	0.10	0.05	0.00	0.00	0.00
FEBURARY	0.08	0.00	0.02	0.03	142.49	0.1	0.07	0.06	0.00	0.00	0.00
MARCH	137.00	0.00	8.03	23.78	296.13	54.1	51.80	1.10	0.45	0.00	0.00
APRIL	70.00	0.20	4.97	9.82	197.56	32.4	23.35	4.15	1.75	0.90	0.46
MAY	3.80	0.05	0.64	0.67	104.53	4.3	2.23	0.79	0.54	0.22	0.07
JUNE	1.00	0.04	0.24	0.20	83.72	1.5	0.74	0.29	0.18	0.10	0.05
JULY	1.80	0.03	0.19	0.26	136.76	1.3	0.79	0.19	0.10	0.05	0.03
AUGUST	0.70	0.02	0.09	0.12	130.83	0.6	0.34	0.10	0.04	0.03	0.02
SEPTEMBER	0.58	0.01	0.15	0.11	70.65	1.0	0.32	0.22	0.14	0.09	0.01
ANNUAL	137.00	0.00	1.26	7.84	621.46	100.0	2.91	0.36	0.15	0.05	0.00

06339800 SPRING CREEK BELOW LAKE ILO AT DUNN CENTER, ND

LOCATION.--Lat 47°20'34", long 102°37'03", in NW¼NW¼NE¼ sec.35, T.145 N., R.94 W., Dunn County, Hydrologic Unit 10130201, on right bank 100 ft (30 m) upstream from bridge on township road, 0.5 mi (0.8 km) south of Dunn Center, and 3.8 mi (6.1 km) downstream from Lake Ilo.

DRAINAGE AREA.--116 mi^2 (300 km^2), of which about 12 mi^2 (31 km^2) is probably noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	41	25.00	0.00	9.87	8.82	19.25	10.00	1.00
STREAMFLOW, INSTANTANEOUS (CFS)	41	743.00	0.37	35.31	126.33	2.30	1.36	0.56
SPECIFIC CONDUCTANCE (MICROMHOS)	37	4400.00	150.00	1752.62	794.84	2260.00	1770.00	1330.00
OXYGEN, DISSOLVED (MG/L)	36	15.40	2.50	8.32	3.05	10.42	8.65	6.33
OXYGEN, DISSOLVED (PERCENT SATURATION)	36	145.00	19.00	80.53	31.74	99.00	87.50	55.75
PH (UNITS)	37	8.70	7.10	8.04	0.41	8.35	8.10	7.70
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	37	63.00	1.40	11.02	13.52	14.00	5.60	3.15
BICARBONATE (MG/L AS HCO3)	37	696.00	76.00	467.27	139.44	567.00	498.00	391.50
CARBONATE (MG/L AS CO3)	37	24.00	0.00	2.91	6.46	0.50	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	35	5.10	0.76	1.62	0.82	2.10	1.30	1.10
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	35	2.10	0.17	1.17	0.44	1.40	1.20	0.86
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	35	2.90	0.00	0.28	0.51	0.28	0.13	0.05
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	35	0.72	0.00	0.18	0.20	0.29	0.09	0.02
PHOSPHORUS, TOTAL (MG/L AS P)	35	0.33	0.05	0.13	0.06	0.17	0.11	0.09
PHOSPHORUS, DISSOLVED (MG/L AS P)	35	0.15	0.01	0.05	0.03	0.08	0.05	0.03
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	34	39.00	3.80	19.25	8.03	25.00	17.50	13.75
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	31	2.70	0.10	1.16	0.64	1.40	1.00	0.80
HARDNESS (MG/L AS CACO3)	35	880.00	50.00	351.71	166.65	440.00	330.00	240.00
HARDNESS, NONCARBONATE (MG/L CACO3)	34	480.00	0.00	30.47	93.59	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	35	170.00	11.00	67.03	30.75	86.00	60.00	49.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	35	110.00	5.40	44.58	21.94	54.00	41.00	29.00
SODIUM, DISSOLVED (MG/L AS NA)	35	630.00	35.00	303.86	115.06	390.00	320.00	240.00
SODIUM PERCENT	35	80.00	58.00	65.77	4.20	68.00	65.00	62.00
POTASSIUM, DISSOLVED (MG/L AS K)	35	11.00	1.20	8.42	2.03	10.00	8.50	7.50
CHLORIDE, DISSOLVED (MG/L AS CL)	35	42.00	1.80	9.01	8.44	7.50	6.20	5.80
SULFATE, DISSOLVED (MG/L AS SO4)	35	1500.00	57.00	583.34	303.45	760.00	510.00	390.00
FLUORIDE, DISSOLVED (MG/L AS F)	35	0.80	0.10	0.52	0.18	0.60	0.50	0.40
SILICA, DISSOLVED (MG/L AS SIO2)	35	23.00	0.40	9.47	5.13	12.00	9.10	6.30
ARSENIC, DISSOLVED (UG/L AS AS)	8	4.00	1.00	2.38	1.06	3.00	2.50	1.25
ARSENIC, TOTAL (UG/L AS AS)	5	5.00	2.00	3.00	1.22	4.00	3.00	2.00
BARIUM, DISSOLVED (UG/L AS BA)	8	300.00	0.00	107.50	97.21	175.00	80.00	50.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	5	400.00	100.00	180.00	130.38	300.00	100.00	100.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	8	3.00	0.00	0.63	1.06	1.00	0.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	35	1300.00	80.00	554.29	259.24	690.00	490.00	400.00
CHROMIUM, DISSOLVED (UG/L AS CR)	8	10.00	0.00	3.63	4.41	8.75	2.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	5	20.00	0.00	7.00	9.75	17.50	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	8	8.00	0.00	2.13	2.70	3.00	1.50	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	5	3.00	0.00	1.20	1.64	3.00	0.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	8	29.00	0.00	10.00	10.98	21.25	5.50	2.25
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	5	15.00	4.00	7.40	4.56	11.50	6.00	4.00
IRON, DISSOLVED (UG/L AS FE)	35	520.00	0.00	143.86	143.89	200.00	110.00	30.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	5	600.00	60.00	354.00	193.34	500.00	370.00	200.00
MANGANESE, DISSOLVED (UG/L AS MN)	8	330.00	40.00	166.00	109.97	272.50	139.00	67.50
MOLYBDENUM, DISSOLVED (UG/L AS MO)	8	25.00	0.00	6.88	8.22	10.00	3.00	2.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	5	6.00	0.00	2.60	2.19	4.50	2.00	1.00
NICKEL, DISSOLVED (UG/L AS NI)	8	5.00	1.00	2.50	1.51	3.75	2.50	1.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	5	8.00	4.00	5.80	1.79	7.50	6.00	4.00
VANADIUM, DISSOLVED (UG/L AS V)	8	8.00	0.00	2.02	2.55	2.55	1.00	1.00
ZINC, DISSOLVED (UG/L AS ZN)	8	30.00	0.00	10.50	10.00	17.50	9.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	5	40.00	10.00	26.00	11.40	35.00	30.00	15.00
ALUMINUM, DISSOLVED (UG/L AS AL)	8	40.00	0.00	18.75	14.58	30.00	20.00	2.50
LITHIUM, DISSOLVED (UG/L AS LI)	8	70.00	5.00	38.63	20.60	57.00	35.00	27.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	5	70.00	8.00	45.60	26.77	70.00	50.00	19.00
SELENIUM, DISSOLVED (UG/L AS SE)	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	35	2430.00	164.00	1297.60	524.97	1750.00	1260.00	981.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	35	3.30	0.22	1.76	0.71	2.38	1.71	1.33
MERCURY, DISSOLVED (UG/L AS HG)	8	0.30	0.00	0.08	0.12	0.18	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	5	0.50	0.00	0.16	0.19	0.30	0.10	0.05
SEDIMENT, SUSPENDED (MG/L)	39	120.00	8.00	40.10	25.48	57.00	38.00	20.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	39	241.00	0.02	8.41	39.14	0.22	0.09	0.05

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	3.20	0.42	0.90	0.58	63.67	0.7	2.06	1.10	0.58	0.51	0.47
NOVEMBER	3.00	0.50	0.91	0.43	47.11	0.7	1.80	1.00	0.82	0.60	0.50
DECEMBER	2.30	0.60	1.18	0.58	49.46	0.9	2.00	1.90	0.86	0.70	0.60
JANUARY	2.00	0.70	1.24	0.55	44.29	1.0	2.00	2.00	0.92	0.83	0.70
FEBURARY	2.10	0.47	1.18	0.60	51.05	0.9	2.10	2.00	0.90	0.71	0.50
MARCH	900.00	0.47	54.41	169.31	311.15	43.4	530.00	3.50	1.50	0.96	0.50
APRIL	530.00	0.52	52.06	97.21	186.75	40.2	269.40	48.50	14.50	1.10	0.56
MAY	75.00	0.37	10.04	15.41	153.40	8.0	57.00	12.00	4.40	0.61	0.38
JUNE	20.00	0.39	2.25	2.97	131.94	1.7	7.62	2.20	1.40	0.68	0.43
JULY	7.00	0.31	1.33	1.00	75.66	1.1	3.16	1.80	0.92	0.52	0.36
AUGUST	2.40	0.29	0.78	0.48	61.59	0.6	1.80	1.10	0.48	0.42	0.32
SEPTEMBER	5.40	0.28	1.00	0.84	84.66	0.8	2.29	1.63	0.57	0.41	0.31
ANNUAL	900.00	0.28	10.64	59.74	561.56	100.0	28.15	2.00	0.95	0.60	0.40

06339900 SPRING CREEK NEAR HALLIDAY, ND

LOCATION.--Lat 47°21'56", long 102°22'35", in NE¼SE¼NE¼ sec.22, T.145 N., R.92 W., Dunn County, Hydrologic Unit 10130201, on left bank 600 ft (183 m) upstream from bridge on township road, 1.7 mi (2.7 km) northwest of Halliday, and 3.6 mi (5.8 km) upstream from Alkali Creek.

DRAINAGE AREA.--260 mi^2 (673 km^2) approximately, of which about 25 mi^2 (65 km^2) probably is noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	42	26.00	0.00	10.35	9.08	18.62	10.00	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	42	1300.00	0.77	88.02	266.66	10.95	5.42	3.60
SPECIFIC CONDUCTANCE (MICROMHOS)	37	2190.00	250.00	1675.27	438.66	2000.00	1840.00	1500.00
OXYGEN, DISSOLVED (MG/L)	36	13.50	6.20	9.75	1.76	10.68	9.80	8.38
OXYGEN, DISSOLVED (PERCENT SATURATION)	36	132.00	55.00	93.67	20.73	105.25	97.00	76.00
PH (UNITS)	37	8.70	7.00	8.15	0.41	8.40	8.30	7.90
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	37	50.00	1.50	8.80	11.50	9.95	3.40	2.60
BICARBONATE (MG/L AS HCO3)	37	656.00	132.00	466.65	124.86	564.50	493.00	386.00
CARBONATE (MG/L AS CO3)	37	41.00	0.00	5.17	8.94	7.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	36	3.20	0.17	1.07	0.59	1.20	0.91	0.75
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	36	2.00	0.13	0.82	0.40	0.98	0.77	0.58
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	36	0.69	0.00	0.12	0.16	0.17	0.05	0.02
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	36	0.58	0.00	0.14	0.17	0.23	0.05	0.02
PHOSPHORUS, TOTAL (MG/L AS P)	36	0.40	0.01	0.08	0.09	0.09	0.05	0.04
PHOSPHORUS, DISSOLVED (MG/L AS P)	36	0.33	0.00	0.04	0.06	0.03	0.02	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	35	40.00	2.10	15.47	7.81	17.00	13.00	11.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	33	3.50	0.20	1.03	0.77	1.20	0.70	0.55
HARDNESS (MG/L AS CACO3)	36	600.00	49.00	410.81	123.94	500.00	420.00	362.50
HARDNESS, NONCARBONATE (MG/L CACO3)	36	140.00	0.00	27.22	32.12	31.75	19.50	3.50
CALCIUM, DISSOLVED (MG/L AS CA)	36	100.00	10.00	73.17	21.68	91.50	75.00	60.75
MAGNESIUM, DISSOLVED (MG/L AS MG)	36	86.00	5.90	55.61	17.80	66.00	58.50	48.25
SODIUM, DISSOLVED (MG/L AS NA)	36	340.00	30.00	247.78	69.57	290.00	270.00	215.00
SODIUM PERCENT	36	74.00	50.00	57.17	5.39	59.00	56.50	54.00
POTASSIUM, DISSOLVED (MG/L AS K)	36	17.00	5.90	8.59	1.87	9.25	8.55	7.50
CHLORIDE, DISSOLVED (MG/L AS CL)	36	26.00	3.10	6.73	3.68	7.45	6.45	4.95
SULFATE, DISSOLVED (MG/L AS SO4)	36	770.00	53.00	537.31	160.13	657.50	590.00	480.00
FLUORIDE, DISSOLVED (MG/L AS F)	36	0.60	0.10	0.50	0.13	0.60	0.50	0.50
SILICA, DISSOLVED (MG/L AS SIO2)	36	19.00	1.90	9.32	5.14	13.50	8.20	5.40
ARSENIC, DISSOLVED (UG/L AS AS)	10	2.00	1.00	1.40	0.52	2.00	1.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	6	3.00	1.00	2.00	1.10	3.00	2.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	10	200.00	0.00	99.00	75.49	200.00	85.00	40.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	6	300.00	100.00	166.67	81.65	225.00	150.00	100.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	10	1.00	0.00	0.60	0.52	1.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	36	920.00	100.00	612.78	189.55	740.00	670.00	500.00
CHROMIUM, DISSOLVED (UG/L AS CR)	10	10.00	0.00	3.00	4.83	10.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	6	20.00	0.00	8.33	7.53	12.50	10.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	10	3.00	0.00	2.00	1.41	3.00	3.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	6	3.00	0.00	1.50	1.38	3.00	1.50	0.00
COPPER, DISSOLVED (UG/L AS CU)	10	28.00	0.00	9.00	8.39	12.50	7.00	3.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	6	23.00	4.00	11.50	6.77	16.25	10.50	6.25
IRON, DISSOLVED (UG/L AS FE)	36	220.00	10.00	51.00	53.08	50.00	30.00	20.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	380.00	120.00	195.00	97.52	245.00	175.00	120.00
MANGANESE, DISSOLVED (UG/L AS MN)	10	180.00	20.00	83.30	65.23	162.50	60.00	27.50
MOLYBDENUM, DISSOLVED (UG/L AS MO)	10	10.00	0.00	6.80	4.26	10.00	10.00	2.50
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	6	5.00	0.00	2.67	1.75	4.25	2.50	1.50
NICKEL, DISSOLVED (UG/L AS NI)	10	12.00	0.00	3.20	3.43	3.50	2.50	1.50
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	6	15.00	0.00	7.17	5.34	11.25	7.50	2.25
VANADIUM, DISSOLVED (UG/L AS V)	10	6.00	0.00	1.94	2.30	3.75	1.00	0.30
ZINC, DISSOLVED (UG/L AS ZN)	10	10.00	0.00	5.70	3.89	10.00	4.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	6	60.00	10.00	28.33	18.35	45.00	20.00	17.50
ALUMINUM, DISSOLVED (UG/L AS AL)	10	60.00	0.00	12.00	19.89	22.50	0.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	10	80.00	20.00	55.80	18.83	70.00	60.50	40.50
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	6	70.00	10.00	43.33	23.38	62.50	45.00	25.00
SELENIUM, DISSOLVED (UG/L AS SE)	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	34	1620.00	157.00	1160.15	343.65	1405.00	1285.00	937.50
SOLIDS, DISSOLVED (TONS PER AC-FT)	36	6.79	0.21	1.72	0.98	1.92	1.75	1.32
MERCURY, DISSOLVED (UG/L AS HG)	10	0.20	0.00	0.05	0.08	0.13	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	6	0.40	0.00	0.22	0.13	0.33	0.20	0.15
SEDIMENT, SUSPENDED (MG/L)	41	618.00	14.00	86.71	123.64	75.00	56.00	42.50
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	41	2100.00	0.09	103.49	420.10	1.50	0.78	0.51

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	9.00	2.10	4.23	1.13	26.68	1.7	6.10	4.90	4.30	3.30	2.80
NOVEMBER	6.50	2.10	3.90	1.00	25.64	1.5	5.68	4.60	3.90	3.00	2.26
DECEMBER	8.00	2.00	4.42	1.93	43.73	1.8	8.00	6.00	3.60	2.80	2.27
JANUARY	5.00	1.20	3.16	1.00	31.82	1.3	5.00	4.00	3.00	2.30	1.74
FEBURARY	5.00	0.40	2.82	1.48	52.55	1.0	4.77	3.80	3.50	1.00	0.60
MARCH	1500.00	0.00	73.35	256.74	350.00	29.7	730.00	14.50	4.00	3.30	0.03
APRIL	1340.00	4.70	111.18	208.70	187.70	43.5	572.50	94.50	35.00	8.55	4.90
MAY	122.00	2.00	20.09	24.24	120.67	8.1	82.00	22.00	14.00	4.15	2.00
JUNE	244.00	2.40	13.14	30.66	233.41	5.1	44.40	9.08	6.95	4.83	2.70
JULY	61.00	1.50	7.64	9.41	123.20	3.1	30.20	9.30	4.60	2.40	2.00
AUGUST	12.00	2.00	3.77	1.50	39.72	1.5	6.09	4.40	3.60	2.80	2.00
SEPTEMBER	12.00	1.00	4.01	2.03	50.55	1.6	8.44	4.60	3.70	2.68	1.20
ANNUAL	1500.00	0.00	20.98	101.52	484.00	100.0	50.15	6.80	4.10	3.00	1.37

06340000 SPRING CREEK AT ZAP, ND

LOCATION.--Lat 47°17'10", long 101°55'31", in SW¼ sec.14, T.144 N., R.89 W., Mercer County, Hydrologic Unit 10130201, on right bank 250 ft (76 m) downstream from Burlington Northern Railway bridge in Zap, and 9 mi (14 km) upstream from mouth.

DRAINAGE AREA.--549 mi^2 (1,422 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	49	23.00	0.00	7.90	8.27	15.50	5.50	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	50	3110.00	2.60	249.97	649.58	63.00	12.25	7.43
SPECIFIC CONDUCTANCE (MICROMHOS)	47	2410.00	190.00	1448.34	539.88	1880.00	1570.00	1200.00
OXYGEN, DISSOLVED (MG/L)	36	12.40	6.70	9.55	1.55	10.80	9.65	8.40
OXYGEN, DISSOLVED (PERCENT SATURATION)	19	109.00	56.00	81.89	14.07	91.00	81.00	73.00
PH (UNITS)	35	8.50	7.50	8.11	0.29	8.30	8.20	7.90
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	12	19.00	2.20	6.41	5.59	8.85	3.75	3.05
BICARBONATE (MG/L AS HCO3)	12	630.00	170.00	475.83	133.24	597.50	495.00	380.00
CARBONATE (MG/L AS CO3)	12	10.00	0.00	0.83	2.89	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	35	3.70	0.33	1.07	0.66	1.20	0.86	0.71
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	35	2.50	0.06	0.81	0.47	0.98	0.75	0.51
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	35	0.40	0.00	0.08	0.10	0.11	0.03	0.01
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	35	0.98	0.00	0.18	0.24	0.27	0.06	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	35	0.49	0.00	0.08	0.11	0.08	0.05	0.02
PHOSPHORUS, DISSOLVED (MG/L AS P)	1	0.01	0.01					
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	33	36.00	4.50	13.45	7.40	15.50	11.00	8.85
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	22	4.30	0.00	1.18	0.93	1.58	0.90	0.50
HARDNESS (MG/L AS CACO3)	36	620.00	170.00	405.83	108.30	477.50	395.00	360.00
HARDNESS, NONCARBONATE (MG/L CACO3)	36	77.00	0.00	19.61	24.65	31.00	9.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	36	120.00	35.00	79.06	20.47	95.50	77.00	66.25
MAGNESIUM, DISSOLVED (MG/L AS MG)	36	78.00	19.00	50.61	14.26	60.75	49.50	44.00
SODIUM, DISSOLVED (MG/L AS NA)	36	370.00	53.00	235.75	73.87	287.50	250.00	200.00
SODIUM PERCENT	36	74.00	40.00	56.22	7.42	58.00	56.00	53.00
POTASSIUM, DISSOLVED (MG/L AS K)	36	14.00	7.10	9.00	1.37	9.43	8.80	8.20
CHLORIDE, DISSOLVED (MG/L AS CL)	36	14.00	2.30	7.13	2.05	8.28	7.20	6.33
SULFATE, DISSOLVED (MG/L AS SO4)	35	800.00	180.00	495.14	139.12	590.00	520.00	440.00
FLUORIDE, DISSOLVED (MG/L AS F)	36	0.70	0.10	0.42	0.13	0.50	0.40	0.40
SILICA, DISSOLVED (MG/L AS SIO2)	36	55.00	5.50	12.01	8.27	13.00	9.75	7.90
ARSENIC, DISSOLVED (UG/L AS AS)	9	2.00	1.00	1.33	0.50	2.00	1.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	9	4.00	1.00	1.89	1.05	2.50	2.00	1.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	9	10.00	0.00	2.00	3.39	3.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	9	10.00	0.00	1.67	3.54	2.50	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	35	650.00	1.00	414.03	144.04	490.00	460.00	340.00
CHROMIUM, DISSOLVED (UG/L AS CR)	9	10.00	0.00	1.67	3.54	2.50	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	9	25.00	0.00	11.22	9.67	20.00	10.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	9	3.00	0.00	1.11	0.93	1.50	1.00	0.50
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	9	38.00	0.00	8.78	11.55	10.50	5.00	2.50
IRON, TOTAL RECOVERABLE (UG/L AS FE)	9	19000.00	580.00	3304.44	6041.02	3100.00	840.00	680.00
IRON, DISSOLVED (UG/L AS FE)	9	170.00	10.00	60.00	68.92	140.00	20.00	10.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	9	820.00	80.00	208.89	232.94	185.00	130.00	105.00
MANGANESE, DISSOLVED (UG/L AS MN)	9	140.00	20.00	62.22	37.01	80.00	60.00	30.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	9	10.00	0.00	4.11	4.68	10.00	1.00	0.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	8	7.00	0.00	2.13	2.70	4.50	1.00	0.00
NICKEL, DISSOLVED (UG/L AS NI)	9	14.00	0.00	2.89	4.46	3.50	2.00	0.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	9	36.00	0.00	12.44	10.44	17.00	9.00	6.50
VANADIUM, DISSOLVED (UG/L AS V)	9	3.00	0.00	1.08	1.07	2.00	1.00	0.00
ZINC, DISSOLVED (UG/L AS ZN)	9	20.00	0.00	7.89	5.95	10.00	10.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	9	100.00	0.00	40.00	32.79	70.00	30.00	20.00
ALUMINUM, DISSOLVED (UG/L AS AL)	9	20.00	0.00	8.89	9.28	20.00	10.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	9	80.00	4.00	50.44	26.49	70.00	60.00	25.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	9	80.00	20.00	50.00	22.91	70.00	60.00	25.00
SELENIUM, DISSOLVED (UG/L AS SE)	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	9	1.00	0.00	0.11	0.33	0.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	36	1700.00	360.00	1124.22	313.57	1340.00	1160.00	957.25
SOLIDS, DISSOLVED (TONS PER AC-FT)	35	2.31	0.49	1.52	0.43	1.82	1.58	1.29
MERCURY, DISSOLVED (UG/L AS HG)	9	0.60	0.00	0.13	0.24	0.30	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	9	1.80	0.00	0.29	0.60	0.35	0.00	0.00
SEDIMENT, SUSPENDED (MG/L)	38	872.00	9.00	90.87	188.78	57.50	36.50	20.75
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	38	7320.00	0.06	253.33	1217.78	3.72	1.05	0.45

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	14.00	5.80	9.49	2.18	22.99	1.9	13.00	11.00	10.00	7.40	6.10
NOVEMBER	16.00	6.40	10.07	2.38	23.62	1.9	15.00	12.00	9.95	8.15	6.80
DECEMBER	11.00	5.00	8.25	1.88	22.86	1.6	11.00	10.00	8.50	7.00	5.00
JANUARY	8.80	1.50	5.50	2.21	40.18	1.1	8.60	7.75	4.80	4.50	1.50
FEBURARY	6.90	1.50	4.71	1.79	37.98	0.9	6.67	6.20	5.50	2.50	2.00
MARCH	3100.00	2.50	182.11	591.81	324.98	36.0	1956.99	36.00	13.00	6.00	2.50
APRIL	2410.00	11.00	189.74	377.74	199.08	36.3	918.00	143.50	62.50	25.75	12.00
MAY	225.00	5.80	40.18	36.80	91.59	7.9	112.30	52.50	35.00	9.00	6.10
JUNE	253.00	5.60	27.50	35.28	128.27	5.3	69.00	25.00	19.00	16.00	7.71
JULY	114.00	3.60	17.76	18.61	104.74	3.5	57.60	22.50	11.00	4.80	3.80
AUGUST	46.00	3.60	9.40	6.46	68.67	1.9	19.20	11.00	8.20	6.25	3.80
SEPTEMBER	19.00	4.40	8.85	3.08	34.78	1.7	16.00	10.00	8.35	6.33	5.30
ANNUAL	3100.00	1.50	42.90	213.25	497.11	100.0	97.45	18.00	9.50	6.40	3.50

06340200 WEST BRANCH OTTER CREEK NEAR BEULAH, ND

LOCATION.--Lat 47°08'05", long 101°39'35", in NW¼NW¼SW¼ sec.12, T.142 N., R.87 W., Oliver County, Hydrologic Unit 10130201, and on right bank 10 mi (16 km) southeast of Beulah.

DRAINAGE AREA.--26.5 mi^2 (68.6 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	28	23.00	0.00	8.84	8.59	18.75	6.25	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	28	136.00	0.02	18.26	32.44	27.25	1.95	0.08
SPECIFIC CONDUCTANCE (MICROMHOS)	29	2220.00	250.00	1130.65	610.71	1615.00	1200.00	462.50
PH (UNITS)	4	9.60	7.70					
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	4	6.50	0.10					
BICARBONATE (MG/L AS HCO3)	4	415.00	107.00					
CARBONATE (MG/L AS CO3)	4	55.00	0.00					
HARDNESS (MG/L AS CACO3)	4	280.00	91.00					
HARDNESS, NONCARBONATE (MG/L CACO3)	4	70.00	0.00					
CALCIUM, DISSOLVED (MG/L AS CA)	4	53.00	20.00					
MAGNESIUM, DISSOLVED (MG/L AS MG)	4	43.00	10.00					
SODIUM, DISSOLVED (MG/L AS NA)	4	260.00	48.00					
SODIUM PERCENT	4	68.00	52.00					
POTASSIUM, DISSOLVED (MG/L AS K)	4	7.70	3.70					
CHLORIDE, DISSOLVED (MG/L AS CL)	4	6.40	2.40					
SULFATE, DISSOLVED (MG/L AS SO4)	4	490.00	110.00					
FLUORIDE, DISSOLVED (MG/L AS F)	4	0.30	0.10					
SILICA, DISSOLVED (MG/L AS SIO2)	4	9.10	1.10					
BORON, DISSOLVED (UG/L AS B)	4	330.00	70.00					
IRON, DISSOLVED (UG/L AS FE)	4	220.00	100.00					
MANGANESE, DISSOLVED (UG/L AS MN)	4	110.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	4	1090.00	256.00					
SOLIDS, DISSOLVED (TONS PER AC-FT)	4	1.48	0.35					

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	3.50	0.00	0.24	0.50	207.96	0.8	1.60	0.14	0.08	0.04	0.00
NOVEMBER	0.38	0.01	0.07	0.08	104.67	0.2	0.18	0.16	0.02	0.02	0.01
DECEMBER	0.50	0.00	0.06	0.08	133.52	0.2	0.19	0.10	0.02	0.02	0.01
JANUARY	0.02	0.00	0.01	0.01	123.61	0.0	0.02	0.02	0.00	0.00	0.00
FEBURARY	0.04	0.00	0.01	0.02	143.18	0.0	0.04	0.04	0.00	0.00	0.00
MARCH	386.00	0.00	19.48	61.92	317.83	64.2	138.80	2.75	0.50	0.04	0.00
APRIL	200.00	0.10	9.09	28.56	314.36	29.0	28.90	4.45	2.40	0.80	0.12
MAY	5.40	0.01	0.51	0.80	155.66	1.7	2.20	0.64	0.16	0.08	0.02
JUNE	2.40	0.01	0.15	0.31	201.61	0.5	0.60	0.12	0.08	0.04	0.02
JULY	51.00	0.00	0.91	5.45	600.85	3.0	3.55	0.08	0.04	0.00	0.00
AUGUST	0.99	0.00	0.07	0.17	258.13	0.2	0.37	0.04	0.00	0.00	0.00
SEPTEMBER	0.22	0.00	0.04	0.07	164.15	0.1	0.17	0.07	0.00	0.00	0.00
ANNUAL	386.00	0.00	2.57	20.58	799.31	100.0	4.00	0.16	0.04	0.00	0.00

06340500 KNIFE RIVER AT HAZEN, ND

LOCATION.--Lat 47°17'07", long 101°37'18", in SW¼SE¼SE¼ sec.18, T.144 N., R.86 W., Mercer County, Hydrologic Unit 10130201, on left bank at downstream side of highway bridge, 0.5 mi (0.8 km) south of Hazen, and 3 mi (5 km) upstream from Antelope Creek.

DRAINAGE AREA.--2,240 mi^2 (5,800 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	47	25.50	0.00	9.26	9.58	20.00	4.50	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	45	10239.97	14.00	892.06	2222.83	213.00	50.00	24.55
SPECIFIC CONDUCTANCE (MICROMHOS)	46	2220.00	240.00	1342.17	588.68	1680.00	1460.00	1005.00
OXYGEN, DISSOLVED (MG/L)	37	13.40	7.00	9.72	1.55	11.00	9.60	8.40
OXYGEN, DISSOLVED (PERCENT SATURATION)	20	106.00	6.80	85.19	21.88	96.75	90.00	77.75
PH (UNITS)	37	8.50	7.70	8.15	0.24	8.30	8.20	8.00
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	11	23.00	1.90	7.43	7.20	11.00	4.00	3.40
BICARBONATE (MG/L AS HCO3)	11	730.00	150.00	509.09	167.00	660.00	500.00	430.00
CARBONATE (MG/L AS CO3)	11	12.00	0.00	1.09	3.62	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	36	3.90	0.44	1.20	0.71	1.28	0.98	0.75
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	36	3.10	0.10	0.90	0.59	1.08	0.75	0.58
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	36	0.30	0.00	0.09	0.10	0.14	0.06	0.01
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	36	0.96	0.00	0.21	0.24	0.42	0.09	0.02
PHOSPHORUS, TOTAL (MG/L AS P)	36	0.65	0.00	0.11	0.16	0.09	0.06	0.03
PHOSPHORUS, DISSOLVED (MG/L AS P)	36	0.21	0.00	0.02	0.04	0.03	0.02	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	29	25.00	0.80	10.12	4.72	12.00	8.70	7.70
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	25	8.90	0.20	2.00	2.49	2.10	1.10	0.50
HARDNESS (MG/L AS CACO3)	35	500.00	100.00	342.57	104.33	430.00	360.00	290.00
HARDNESS, NONCARBONATE (MG/L CACO3)	35	27.00	0.00	2.71	7.47	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	35	100.00	24.00	71.26	21.27	89.00	74.00	58.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	35	61.00	9.80	39.74	12.74	48.00	41.00	34.00
SODIUM, DISSOLVED (MG/L AS NA)	35	370.00	40.00	243.20	83.59	320.00	240.00	220.00
SODIUM PERCENT	35	77.00	45.00	60.49	6.17	62.00	60.00	58.00
POTASSIUM, DISSOLVED (MG/L AS K)	36	12.00	2.20	8.51	1.85	9.38	8.80	8.13
CHLORIDE, DISSOLVED (MG/L AS CL)	36	15.00	1.80	6.75	2.58	7.78	6.50	5.73
SULFATE, DISSOLVED (MG/L AS SO4)	36	650.00	99.00	429.97	127.02	525.00	435.00	380.00
FLUORIDE, DISSOLVED (MG/L AS F)	36	0.60	0.10	0.38	0.10	0.40	0.40	0.33
SILICA, DISSOLVED (MG/L AS SIO2)	35	21.00	5.50	12.05	3.74	14.00	12.00	9.00
ARSENIC, DISSOLVED (UG/L AS AS)	12	2.00	1.00	1.33	0.49	2.00	1.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	26	6.00	1.00	2.23	1.31	3.00	2.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	12	200.00	0.00	79.17	71.66	100.00	95.00	0.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	26	500.00	0.00	173.08	118.52	225.00	100.00	100.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	8	10.00	0.00	1.63	3.42	1.00	0.50	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	25	10.00	0.00	1.80	3.79	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	11	380.00	110.00	297.27	74.04	330.00	310.00	290.00
CHROMIUM, DISSOLVED (UG/L AS CR)	12	20.00	0.00	5.00	7.98	10.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	25	20.00	0.00	7.84	8.46	18.00	10.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	12	10.00	0.00	2.08	2.84	3.00	1.50	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	25	10.00	0.00	1.96	2.78	2.00	1.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	12	40.00	0.00	5.25	11.01	3.75	2.00	1.25
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	25	90.00	0.00	12.36	18.58	10.50	6.00	4.50
IRON, TOTAL RECOVERABLE (UG/L AS FE)	25	24000.00	230.00	2866.80	5366.85	2050.00	910.00	640.00
IRON, DISSOLVED (UG/L AS FE)	20	230.00	10.00	57.50	57.39	70.00	40.00	22.50
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	25	840.00	90.00	224.00	179.05	210.00	160.00	135.00
MANGANESE, DISSOLVED (UG/L AS MN)	12	180.00	0.00	56.58	51.49	77.50	45.00	20.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	8	10.00	0.00	3.00	4.44	8.25	0.50	0.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	24	7.00	0.00	2.79	1.98	4.75	3.00	1.00
NICKEL, DISSOLVED (UG/L AS NI)	9	22.00	0.00	5.00	6.60	5.00	3.00	2.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	24	42.00	4.00	11.58	10.13	13.00	8.00	5.25
VANADIUM, DISSOLVED (UG/L AS V)	9	7.00	0.00	1.83	2.36	3.00	1.30	0.05
ZINC, DISSOLVED (UG/L AS ZN)	12	30.00	0.00	10.75	8.74	17.50	10.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	25	140.00	0.00	38.40	39.02	45.00	30.00	10.00
ALUMINUM, DISSOLVED (UG/L AS AL)	9	20.00	0.00	7.78	8.33	15.00	10.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	8	60.00	0.00	36.25	23.26	57.50	45.00	12.50
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	24	60.00	10.00	41.25	11.16	50.00	40.00	32.50
SELENIUM, DISSOLVED (UG/L AS SE)	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	25	4.00	0.00	0.32	0.85	0.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	35	1610.00	238.00	1068.77	338.43	1360.00	1030.00	957.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	36	2.19	0.32	1.45	0.45	1.83	1.41	1.31
MERCURY, DISSOLVED (UG/L AS HG)	12	0.10	0.00	0.03	0.05	0.08	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	25	0.80	0.00	0.12	0.17	0.15	0.10	0.00
SEDIMENT, SUSPENDED (MG/L)	37	1320.00	8.00	144.05	292.17	81.00	41.00	20.50
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	37	19000.00	0.30	754.19	3225.21	26.00	3.50	1.35

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	185.00	22.00	46.48	31.49	67.75	2.1	110.80	47.00	41.00	27.00	22.70
NOVEMBER	45.00	21.00	31.04	6.63	21.34	1.3	41.00	36.00	30.50	25.00	22.00
DECEMBER	34.00	23.00	27.60	3.13	11.33	1.2	33.00	30.00	27.00	25.00	23.70
JANUARY	26.00	14.00	21.39	3.99	18.68	1.0	26.00	25.50	22.00	18.00	15.00
FEBRUARY	23.00	13.00	18.20	3.08	16.91	0.7	23.00	20.00	19.00	14.00	14.00
MARCH	10500.00	14.00	899.86	2177.19	241.95	40.1	7870.00	400.50	46.00	20.00	14.00
APRIL	5490.00	41.00	757.99	1131.25	149.24	32.7	3575.50	902.75	295.00	141.00	45.55
MAY	739.00	16.00	164.14	169.42	103.22	7.3	636.00	192.00	136.00	31.50	18.00
JUNE	1850.00	17.00	144.54	255.55	176.80	6.2	624.40	136.50	71.50	41.75	28.00
JULY	355.00	12.00	71.84	64.75	90.14	3.2	203.70	98.00	49.00	21.00	15.00
AUGUST	99.00	12.00	29.77	14.33	48.13	1.3	51.70	35.00	29.00	16.50	12.70
SEPTEMBER	912.00	13.00	63.42	133.45	210.42	2.7	239.60	48.50	31.00	19.00	15.00
ANNUAL	10500.00	12.00	190.29	772.59	406.01	100.0	698.65	76.75	32.00	23.00	15.00

06340520 ANTELOPE CREEK ABOVE HAZEN, ND

LOCATION.--Lat 47°20'07", long 101°41'41", in SE¼SE¼NE¼ sec.36, T.145 N., R.87 W., Mercer County, Hydrologic Unit 10130201, on left bank about 100 ft (30 m) upstream from bridge on county road, 4.2 mi (6.8 km) northeast of Hazen, and 2.0 mi (3.2 km) upstream from Schramm Dam.

DRAINAGE AREA.--25.6 mi^2 (66.3 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	26	24.50	0.00	7.13	7.90	10.38	5.75	0.38
STREAMFLOW, INSTANTANEOUS (CFS)	26	332.00	0.03	29.29	73.72	22.25	0.32	0.09
SPECIFIC CONDUCTANCE (MICROMHOS)	20	3180.00	422.00	1787.20	766.74	2345.00	1745.00	1472.50
OXYGEN, DISSOLVED (MG/L)	19	13.10	2.00	9.85	2.99	12.00	11.00	7.90
OXYGEN, DISSOLVED (PERCENT SATURATION)	19	118.00	24.00	86.16	25.25	98.00	88.00	85.00
PH (UNITS)	20	8.50	7.50	8.16	0.27	8.38	8.20	8.00
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	20	41.00	2.00	8.42	9.46	8.90	4.70	3.13
BICARBONATE (MG/L AS HCO3)	20	1300.00	123.00	573.97	284.03	796.25	556.00	432.75
CARBONATE (MG/L AS CO3)	18	547.00	0.00	33.67	128.33	7.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	20	4.00	0.93	1.86	0.94	1.95	1.70	1.13
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	20	2.40	0.40	1.26	0.56	1.68	1.20	0.82
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	20	0.78	0.00	0.21	0.27	0.34	0.09	0.04
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	20	1.80	0.01	0.40	0.45	0.72	0.23	0.07
PHOSPHORUS, TOTAL (MG/L AS P)	20	0.68	0.04	0.17	0.15	0.22	0.13	0.07
PHOSPHORUS, DISSOLVED (MG/L AS P)	20	0.63	0.01	0.12	0.14	0.16	0.07	0.04
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	20	33.00	8.70	17.20	6.62	18.75	16.50	13.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	19	2.10	0.20	0.96	0.55	1.40	0.90	0.50
HARDNESS (MG/L AS CACO3)	20	680.00	120.00	379.50	146.20	505.00	400.00	310.00
HARDNESS, NONCARBONATE (MG/L CACO3)	20	81.00	0.00	8.65	21.99	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	20	120.00	23.00	68.30	26.01	87.25	70.00	47.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	20	92.00	14.00	50.80	23.27	67.00	52.00	35.50
SODIUM, DISSOLVED (MG/L AS NA)	20	740.00	36.00	295.75	167.66	387.50	265.00	202.50
SODIUM PERCENT	20	91.00	35.00	59.00	11.43	63.75	61.00	54.25
POTASSIUM, DISSOLVED (MG/L AS K)	20	23.00	7.80	12.59	3.58	14.00	12.00	10.18
CHLORIDE, DISSOLVED (MG/L AS CL)	20	24.00	3.10	11.12	5.15	13.75	11.00	8.03
SULFATE, DISSOLVED (MG/L AS SO4)	20	1100.00	110.00	509.50	236.25	647.50	500.00	452.50
FLUORIDE, DISSOLVED (MG/L AS F)	20	0.30	0.00	0.18	0.08	0.20	0.20	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	20	19.00	1.60	8.84	5.35	13.00	8.00	3.68
ARSENIC, DISSOLVED (UG/L AS AS)	7	4.00	2.00	2.57	0.79	3.00	2.00	2.00
ARSENIC, TOTAL (UG/L AS AS)	5	5.00	2.00	3.00	1.22	4.00	3.00	2.00
BARIUM, DISSOLVED (UG/L AS BA)	7	400.00	40.00	154.29	138.31	300.00	100.00	70.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	5	200.00	0.00	100.00	70.71	150.00	100.00	50.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	7	10.00	0.00	3.29	4.61	10.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	20	430.00	80.00	240.00	84.54	280.00	250.00	187.50
CHROMIUM, DISSOLVED (UG/L AS CR)	7	10.00	0.00	2.00	3.83	4.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	5	10.00	0.00	2.00	4.47	5.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	7	3.00	0.00	1.43	1.51	3.00	1.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	5	2.00	0.00	0.80	1.10	2.00	0.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	7	10.00	0.00	7.00	4.04	10.00	10.00	4.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	5	22.00	4.00	9.60	7.09	15.00	7.00	5.50
IRON, DISSOLVED (UG/L AS FE)	20	330.00	30.00	88.50	75.34	105.00	70.00	40.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	5	200.00	40.00	126.00	67.68	180.00	160.00	55.00
MANGANESE, DISSOLVED (UG/L AS MN)	7	130.00	10.00	59.29	49.18	110.00	28.00	20.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	7	10.00	0.00	5.00	4.76	10.00	3.00	1.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	5	5.00	0.00	1.60	2.07	3.50	1.00	0.00
NICKEL, DISSOLVED (UG/L AS NI)	7	4.00	0.00	1.71	1.38	2.00	2.00	0.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	5	13.00	3.00	7.40	4.72	12.50	5.00	3.50
VANADIUM, DISSOLVED (UG/L AS V)	7	6.00	0.00	2.90	2.29	6.00	2.00	1.60
ZINC, DISSOLVED (UG/L AS ZN)	7	10.00	3.00	7.86	3.34	10.00	10.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	5	50.00	10.00	30.00	15.81	45.00	30.00	15.00
ALUMINUM, DISSOLVED (UG/L AS AL)	7	70.00	0.00	21.43	30.24	60.00	10.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	7	71.00	4.00	41.71	29.23	70.00	57.00	10.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	5	70.00	10.00	36.00	31.30	70.00	20.00	10.00
SELENIUM, DISSOLVED (UG/L AS SE)	7	1.00	0.00	0.43	0.53	1.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	5	1.00	0.00	0.60	0.55	1.00	1.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	20	2350.00	281.00	1253.00	549.09	1497.50	1250.00	1060.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	20	3.20	0.38	1.70	0.75	2.04	1.70	1.44
MERCURY, DISSOLVED (UG/L AS HG)	7	0.30	0.00	0.06	0.11	0.10	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	5	0.40	0.00	0.14	0.17	0.30	0.10	0.00
SEDIMENT, SUSPENDED (MG/L)	26	406.00	6.00	56.46	94.32	49.50	28.00	13.75
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	26	293.00	0.00	20.50	68.94	1.75	0.01	0.01

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	2.20	0.00	0.14	0.36	250.02	0.3	0.90	0.09	0.02	0.00	0.00
NOVEMBER	0.17	0.01	0.05	0.03	66.25	0.1	0.11	0.07	0.05	0.02	0.01
DECEMBER	0.20	0.01	0.07	0.05	75.08	0.2	0.18	0.10	0.05	0.03	0.01
JANUARY	0.16	0.00	0.04	0.04	107.60	0.1	0.15	0.06	0.02	0.01	0.00
FEBURARY	0.02	0.00	0.00	0.01	170.86	0.0	0.02	0.01	0.00	0.00	0.00
MARCH	300.00	0.00	20.31	58.34	287.32	48.7	193.00	2.70	0.12	0.01	0.00
APRIL	456.00	0.01	19.66	67.07	341.06	45.7	125.00	6.05	2.65	0.67	0.01
MAY	6.80	0.00	0.89	1.14	128.32	2.1	3.00	1.30	0.52	0.06	0.00
JUNE	0.52	0.00	0.15	0.15	98.76	0.4	0.45	0.26	0.12	0.00	0.00
JULY	41.00	0.00	0.96	4.76	495.72	2.3	1.88	0.29	0.07	0.00	0.00
AUGUST	0.23	0.00	0.01	0.04	306.90	0.0	0.12	0.00	0.00	0.00	0.00
SEPTEMBER	0.04	0.00	0.00	0.00	616.39	0.0	0.00	0.00	0.00	0.00	0.00
ANNUAL	456.00	0.00	3.53	26.61	752.77	100.0	4.11	0.18	0.03	0.00	0.00

06340540 WEST BRANCH ANTELOPE CREEK NEAR HAZEN, ND

LOCATION.--Lat 47°19'00", long 101°41'27", in NE¼SE¼SW¼ sec.3, T.144 N., R.87 W., Mercer County, Hydrologic Unit 10130201, on right bank 50 ft (15 m) upstream from bridge on county road, 600 ft (183 m) upstream from mouth, and 3.2 mi (5.1 km) northwest of Hazen.

DRAINAGE AREA.--37.7 mi^2 (97.6 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	12	19.00	0.00	7.71	6.26	12.38	7.00	1.75
STREAMFLOW, INSTANTANEOUS (CFS)	12	228.00	0.32	47.84	78.49	48.00	10.55	1.18
SPECIFIC CONDUCTANCE (MICROMHOS)	7	1780.00	194.00	967.00	610.81	1395.00	1150.00	368.00
OXYGEN, DISSOLVED (MG/L)	7	11.20	3.90	8.73	2.62	10.90	9.50	6.50
OXYGEN, DISSOLVED (PERCENT SATURATION)	7	90.00	45.00	76.14	14.94	84.00	81.00	71.00
PH (UNITS)	7	8.60	7.70	8.07	0.30	8.20	8.10	7.80
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	7	7.10	1.70	4.13	2.20	6.80	4.30	1.80
BICARBONATE (MG/L AS HCO3)	7	678.00	67.00	346.14	235.62	561.00	416.00	137.00
CARBONATE (MG/L AS CO3)	7	11.00	0.00	1.57	4.16	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	7	3.40	0.69	1.82	1.21	3.10	1.00	0.77
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	7	2.50	0.64	1.31	0.69	1.90	0.96	0.74
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	7	0.58	0.01	0.22	0.24	0.43	0.06	0.03
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	7	0.83	0.00	0.30	0.37	0.70	0.02	0.02
PHOSPHORUS, TOTAL (MG/L AS P)	7	0.75	0.09	0.34	0.23	0.49	0.30	0.12
PHOSPHORUS, DISSOLVED (MG/L AS P)	7	0.63	0.06	0.24	0.19	0.28	0.20	0.09
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	7	26.00	10.00	16.57	6.48	24.00	14.00	11.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	7	8.00	0.40	2.19	2.87	4.00	0.60	0.40
HARDNESS (MG/L AS CACO3)	7	390.00	53.00	241.43	144.46	360.00	320.00	97.00
HARDNESS, NONCARBONATE (MG/L CACO3)	7	8.00	0.00	1.14	3.02	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	7	84.00	12.00	50.43	29.18	72.00	65.00	19.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	7	48.00	5.50	28.21	18.11	44.00	34.00	11.00
SODIUM, DISSOLVED (MG/L AS NA)	7	300.00	14.00	133.43	104.70	200.00	140.00	30.00
SODIUM PERCENT	7	64.00	32.00	48.00	11.36	53.00	52.00	34.00
POTASSIUM, DISSOLVED (MG/L AS K)	7	14.00	6.90	9.56	2.37	11.00	8.40	8.30
CHLORIDE, DISSOLVED (MG/L AS CL)	7	4.50	1.90	3.09	1.00	4.10	3.10	1.90
SULFATE, DISSOLVED (MG/L AS SO4)	7	460.00	32.00	236.86	161.76	360.00	280.00	76.00
FLUORIDE, DISSOLVED (MG/L AS F)	7	0.30	0.00	0.16	0.13	0.30	0.20	0.00
SILICA, DISSOLVED (MG/L AS SIO2)	7	16.00	5.50	8.73	3.87	12.00	7.30	5.60
ARSENIC, DISSOLVED (UG/L AS AS)	3	2.00	1.00					
ARSENIC, TOTAL (UG/L AS AS)	3	4.00	2.00					
BARIUM, DISSOLVED (UG/L AS BA)	3	100.00	0.00					
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	3	300.00	0.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	3	1.00	0.00					
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	3	10.00	0.00					
BORON, DISSOLVED (UG/L AS B)	7	290.00	40.00	155.71	83.44	200.00	170.00	70.00
CHROMIUM, DISSOLVED (UG/L AS CR)	3	0.00	0.00					
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	3	20.00	0.00					
COBALT, DISSOLVED (UG/L AS CO)	3	3.00	0.00					
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	3	5.00	0.00					
COPPER, DISSOLVED (UG/L AS CU)	3	11.00	5.00					
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	3	24.00	10.00					
IRON, DISSOLVED (UG/L AS FE)	7	330.00	40.00	122.86	113.68	230.00	60.00	40.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	3	420.00	130.00					
MANGANESE, DISSOLVED (UG/L AS MN)	3	100.00	20.00					
MOLYBDENUM, DISSOLVED (UG/L AS MO)	3	10.00	0.00					
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	3	5.00	0.00					
NICKEL, DISSOLVED (UG/L AS NI)	3	3.00	1.00					
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	3	27.00	6.00					
VANADIUM, DISSOLVED (UG/L AS V)	3	6.00	1.70					
ZINC, DISSOLVED (UG/L AS ZN)	3	20.00	10.00					
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	3	80.00	30.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	3	70.00	30.00					
LITHIUM, DISSOLVED (UG/L AS LI)	3	15.00	4.00					
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	3	10.00	7.00					
SELENIUM, DISSOLVED (UG/L AS SE)	3	6.00	0.00					
SELENIUM, TOTAL (UG/L AS SE)	3	18.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	7	1240.00	113.00	657.43	428.37	966.00	755.00	241.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	7	1.69	0.15	0.89	0.58	1.31	1.03	0.33
MERCURY, DISSOLVED (UG/L AS HG)	3	0.60	0.00					
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	3	0.50	0.00					
SEDIMENT, SUSPENDED (MG/L)	11	1120.00	10.00	218.27	331.16	330.00	74.00	19.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	11	689.00	0.02	90.41	210.17	30.00	1.70	0.05

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	0.62	0.00	0.01	0.07	627.37	0.0	0.00	0.00	0.00	0.00	0.00
NOVEMBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
DECEMBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
JANUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
FEBURARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
MARCH	250.00	0.00	16.00	47.59	297.45	54.1	125.20	2.95	0.00	0.00	0.00
APRIL	418.00	0.00	13.46	56.18	417.50	44.0	63.95	2.58	1.30	0.00	0.00
MAY	3.00	0.00	0.49	0.70	141.29	1.7	2.36	0.75	0.20	0.00	0.00
JUNE	0.16	0.00	0.01	0.03	301.72	0.0	0.10	0.00	0.00	0.00	0.00
JULY	1.60	0.00	0.04	0.23	558.01	0.1	0.04	0.00	0.00	0.00	0.00
AUGUST	0.48	0.00	0.01	0.05	964.37	0.0	0.00	0.00	0.00	0.00	0.00
SEPTEMBER	0.25	0.00	0.00	0.03	707.90	0.0	0.00	0.00	0.00	0.00	0.00
ANNUAL	418.00	0.00	2.51	21.85	870.11	100.0	2.30	0.00	0.00	0.00	0.00

06340580 COAL CREEK NEAR STANTON, ND

LOCATION.--Lat 47°20'03", long 101°31'38", in SE¼NE¼SE¼ sec.32, T.145 N., R.85 W., Mercer County, Hydrologic Unit 10130201, on right bank 60 ft (18.3 m) upstream from bridge, on county road 6.3 mi (10.1 km) west of Stanton, 5.3 mi (8.5 km) northwest of Hazen, and 1.1 mi (1.8 km) upstream from mouth.

DRAINAGE AREA.--15.8 mi^2 (40.9 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	23	23.00	0.00	7.93	7.85	13.00	6.00	1.00
STREAMFLOW, INSTANTANEOUS (CFS)	24	463.00	0.03	25.48	94.42	5.34	0.33	0.10
SPECIFIC CONDUCTANCE (MICROMHOS)	21	3150.00	278.00	1808.95	843.63	2445.00	1850.00	1070.00
OXYGEN, DISSOLVED (MG/L)	21	17.00	5.20	10.96	2.71	12.30	11.00	9.90
OXYGEN, DISSOLVED (PERCENT SATURATION)	21	198.00	60.00	98.10	30.23	106.50	92.00	79.50
PH (UNITS)	21	9.00	7.90	8.33	0.31	8.55	8.30	8.15
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	21	14.00	1.10	4.99	4.26	6.10	3.80	2.45
BICARBONATE (MG/L AS HCO3)	21	1100.00	90.00	594.52	292.20	875.00	572.00	377.50
CARBONATE (MG/L AS CO3)	21	78.00	0.00	10.67	19.39	15.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	21	2.80	0.50	1.35	0.56	1.50	1.30	1.00
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	21	2.70	0.47	1.16	0.51	1.40	1.10	0.79
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	21	0.26	0.00	0.08	0.08	0.14	0.03	0.01
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	21	0.65	0.00	0.12	0.18	0.19	0.03	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	21	0.47	0.05	0.15	0.13	0.20	0.10	0.08
PHOSPHORUS, DISSOLVED (MG/L AS P)	21	0.36	0.00	0.09	0.10	0.11	0.06	0.03
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	21	41.00	10.00	22.19	8.44	27.00	23.00	16.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	19	5.10	0.10	0.97	1.14	0.90	0.60	0.40
HARDNESS (MG/L AS CACO3)	21	650.00	70.00	356.14	174.84	495.00	370.00	195.00
HARDNESS, NONCARBONATE (MG/L CACO3)	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	21	94.00	15.00	56.29	26.32	81.50	58.00	31.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	21	100.00	7.90	52.04	27.97	69.50	61.00	24.50
SODIUM, DISSOLVED (MG/L AS NA)	21	600.00	27.00	319.38	167.64	455.00	330.00	170.00
SODIUM PERCENT	21	74.00	43.00	63.43	7.36	68.50	65.00	61.00
POTASSIUM, DISSOLVED (MG/L AS K)	21	23.00	1.20	10.65	4.64	13.00	10.00	7.40
CHLORIDE, DISSOLVED (MG/L AS CL)	21	18.00	1.80	8.19	4.18	10.00	8.10	4.80
SULFATE, DISSOLVED (MG/L AS SO4)	21	1000.00	56.00	510.52	273.78	665.00	590.00	225.00
FLUORIDE, DISSOLVED (MG/L AS F)	21	0.40	0.00	0.22	0.10	0.30	0.20	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	21	20.00	0.30	9.32	5.78	13.00	8.80	5.10
ARSENIC, DISSOLVED (UG/L AS AS)	7	5.00	1.00	2.71	1.38	4.00	2.00	2.00
ARSENIC, TOTAL (UG/L AS AS)	5	6.00	2.00	3.20	1.79	5.00	2.00	2.00
BARIUM, DISSOLVED (UG/L AS BA)	7	600.00	50.00	147.14	200.81	100.00	70.00	50.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	5	200.00	0.00	80.00	83.67	150.00	100.00	0.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	7	3.00	0.00	0.86	1.07	1.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	5	5.00	0.00	1.00	2.24	2.50	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	21	430.00	70.00	285.24	107.82	365.00	320.00	200.00
CHROMIUM, DISSOLVED (UG/L AS CR)	7	4.00	0.00	0.57	1.51	0.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	5	10.00	0.00	6.00	5.48	10.00	10.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	7	8.00	0.00	2.71	2.69	3.00	3.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	5	3.00	0.00	1.80	1.30	3.00	2.00	0.50
COPPER, DISSOLVED (UG/L AS CU)	7	25.00	2.00	8.57	7.91	10.00	6.00	3.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	5	13.00	3.00	7.00	3.94	10.50	7.00	3.50
IRON, DISSOLVED (UG/L AS FE)	21	470.00	27.00	102.67	99.04	130.00	60.00	40.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	5	130.00	30.00	78.00	44.38	125.00	60.00	40.00
MANGANESE, DISSOLVED (UG/L AS MN)	7	87.00	8.00	33.71	29.52	60.00	28.00	10.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	7	25.00	0.00	8.14	8.78	10.00	10.00	1.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	5	5.00	0.00	2.20	1.92	4.00	2.00	0.50
NICKEL, DISSOLVED (UG/L AS NI)	7	4.00	0.00	2.29	1.60	3.00	3.00	0.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	5	11.00	4.00	6.40	2.88	9.00	6.00	4.00
VANADIUM, DISSOLVED (UG/L AS V)	7	8.00	2.00	3.64	2.39	6.00	2.50	2.00
ZINC, DISSOLVED (UG/L AS ZN)	7	20.00	3.00	8.00	5.80	10.00	6.00	4.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	5	40.00	10.00	26.00	13.42	40.00	20.00	15.00
ALUMINUM, DISSOLVED (UG/L AS AL)	7	90.00	0.00	34.29	32.07	60.00	30.00	10.00
LITHIUM, DISSOLVED (UG/L AS LI)	7	110.00	10.00	70.00	43.43	110.00	83.00	27.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	5	110.00	20.00	60.00	46.37	110.00	40.00	20.00
SELENIUM, DISSOLVED (UG/L AS SE)	7	1.00	0.00	0.14	0.38	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	21	2380.00	166.00	1292.67	634.78	1750.00	1370.00	744.50
SOLIDS, DISSOLVED (TONS PER AC-FT)	21	3.24	0.23	1.76	0.86	2.38	1.86	1.02
MERCURY, DISSOLVED (UG/L AS HG)	7	0.40	0.00	0.10	0.14	0.10	0.10	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	5	0.40	0.00	0.16	0.18	0.35	0.10	0.00
SEDIMENT, SUSPENDED (MG/L)	24	894.00	6.00	85.92	174.99	74.00	44.00	32.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	24	1120.00	0.00	47.66	228.42	0.70	0.05	0.01

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION	PERCENT OF ANNUAL RUNOFF	95	75	MEDIAN 50	25	5
OCTOBER	0.86	0.00	0.13	0.13	103.43	0.6	0.39	0.18	0.13	0.00	0.00
NOVEMBER	0.30	0.05	0.14	0.07	51.02	0.6	0.28	0.19	0.10	0.09	0.08
DECEMBER	0.40	0.00	0.08	0.07	85.20	0.4	0.20	0.10	0.08	0.02	0.00
JANUARY	0.05	0.00	0.01	0.02	276.72	0.0	0.05	0.00	0.00	0.00	0.00
FEBRUARY	0.00	0.00	0.00	0.00	-	0.0	0.00	0.00	0.00	0.00	0.00
MARCH	90.00	0.00	9.36	19.40	207.31	42.2	66.50	6.00	2.00	0.00	0.00
APRIL	179.00	0.22	11.16	28.48	255.29	48.7	56.65	8.33	3.40	1.58	0.29
MAY	15.00	0.00	0.98	2.12	217.25	4.4	3.98	0.86	0.45	0.03	0.00
JUNE	6.50	0.00	0.43	0.94	215.86	1.9	1.82	0.35	0.25	0.04	0.00
JULY	2.60	0.00	0.19	0.43	230.95	0.8	1.07	0.18	0.00	0.00	0.00
AUGUST	0.40	0.00	0.04	0.10	257.89	0.2	0.31	0.00	0.00	0.00	0.00
SEPTEMBER	1.10	0.00	0.05	0.17	379.13	0.2	0.26	0.00	0.00	0.00	0.00
ANNUAL	179.00	0.00	1.88	10.59	563.28	100.0	6.00	0.28	0.08	0.00	0.00

06340780 ALDERIN CREEK NEAR FORT CLARK, ND

LOCATION.--Lat 47°16'09", long 101°18'34", in NW¼NW¼NE¼ sec.27, T.144 N., R.84 W., Mercer County, Hydrologic Unit 10130101, on left bank 80 ft (24 m) upstream from box culvert on North Dakota Highway 200-A, 3.5 mi (5.6 km) northwest of Ft. Clark, and 2.3 mi (3.7 km) upstream from mouth.

DRAINAGE AREA.--21.9 mi^2 (56.7 km^2) of which 1.1 mi^2 (2.8 km^2) is probably noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	25	21.00	0.00	10.11	7.00	16.25	10.00	3.50
STREAMFLOW, INSTANTANEOUS (CFS)	25	314.00	0.01	26.51	73.60	3.65	1.40	0.18
SPECIFIC CONDUCTANCE (MICROMHOS)	21	2710.00	276.00	1634.81	713.06	2220.00	1700.00	1255.00
OXYGEN, DISSOLVED (MG/L)	21	12.50	7.50	9.95	1.49	11.25	9.70	8.90
OXYGEN, DISSOLVED (PERCENT SATURATION)	21	111.00	69.00	95.67	10.68	102.00	98.00	90.50
PH (UNITS)	21	8.60	7.90	8.40	0.16	8.50	8.40	8.30
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	21	7.10	1.10	3.01	1.32	3.90	2.70	2.05
BICARBONATE (MG/L AS HCO3)	21	843.00	115.00	475.10	198.38	671.00	466.00	356.00
CARBONATE (MG/L AS CO3)	21	31.00	0.00	6.50	7.82	11.50	5.00	0.00
NITROGEN, TOTAL (MG/L AS N)	21	4.40	0.84	1.72	0.84	1.85	1.60	1.15
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	21	2.40	0.47	1.40	0.48	1.70	1.40	1.03
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	21	0.71	0.00	0.13	0.21	0.15	0.04	0.02
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	21	1.60	0.00	0.20	0.38	0.22	0.03	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	21	0.80	0.01	0.15	0.17	0.18	0.11	0.07
PHOSPHORUS, DISSOLVED (MG/L AS P)	21	0.18	0.00	0.04	0.05	0.05	0.03	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	20	50.00	7.60	24.43	10.82	29.25	23.50	16.25
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	16	8.40	0.40	2.23	2.01	3.25	1.65	0.73
HARDNESS (MG/L AS CACO3)	21	440.00	56.00	250.19	109.15	315.00	260.00	170.00
HARDNESS, NONCARBONATE (MG/L CACO3)	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	21	89.00	12.00	46.76	20.59	56.50	47.00	33.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	21	68.00	6.30	32.60	15.40	41.50	34.00	21.50
SODIUM, DISSOLVED (MG/L AS NA)	21	530.00	30.00	296.43	150.99	410.00	310.00	195.00
SODIUM PERCENT	21	86.00	48.00	69.62	11.17	77.00	73.00	60.50
POTASSIUM, DISSOLVED (MG/L AS K)	21	15.00	6.90	10.75	2.10	12.50	11.00	8.80
CHLORIDE, DISSOLVED (MG/L AS CL)	21	9.50	1.90	5.55	2.01	6.90	5.10	4.00
SULFATE, DISSOLVED (MG/L AS SO4)	21	920.00	51.00	485.05	239.10	665.00	490.00	350.00
FLUORIDE, DISSOLVED (MG/L AS F)	21	0.80	0.00	0.31	0.17	0.40	0.30	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	21	11.00	2.60	6.38	2.25	8.45	6.30	4.50
ARSENIC, DISSOLVED (UG/L AS AS)	7	3.00	1.00	2.14	0.69	3.00	2.00	2.00
ARSENIC, TOTAL (UG/L AS AS)	4	10.00	2.00					
BARIUM, DISSOLVED (UG/L AS BA)	7	200.00	0.00	64.29	67.05	70.00	60.00	0.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	4	300.00	100.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	7	3.00	0.00	0.86	1.07	1.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	4	10.00	0.00					
BORON, DISSOLVED (UG/L AS B)	21	500.00	80.00	288.10	120.77	410.00	270.00	210.00
CHROMIUM, DISSOLVED (UG/L AS CR)	7	10.00	0.00	2.86	4.88	10.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	4	40.00	10.00					
COBALT, DISSOLVED (UG/L AS CO)	7	8.00	0.00	2.86	2.54	3.00	3.00	1.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	4	9.00	1.00					
COPPER, DISSOLVED (UG/L AS CU)	7	28.00	8.00	16.43	9.03	25.00	10.00	9.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	60.00	5.00					
IRON, DISSOLVED (UG/L AS FE)	21	290.00	10.00	98.81	76.39	170.00	70.00	50.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	4	1200.00	20.00					
MANGANESE, DISSOLVED (UG/L AS MN)	7	56.00	4.00	30.43	23.41	50.00	40.00	4.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	7	10.00	0.00	6.00	4.51	10.00	7.00	0.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	4	4.00	0.00					
NICKEL, DISSOLVED (UG/L AS NI)	7	11.00	0.00	5.43	3.60	8.00	5.00	3.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	4	41.00	7.00					
VANADIUM, DISSOLVED (UG/L AS V)	7	11.00	0.00	3.80	3.72	6.00	3.00	1.00
ZINC, DISSOLVED (UG/L AS ZN)	7	20.00	0.00	9.14	8.01	20.00	8.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	4	180.00	10.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	7	140.00	10.00	54.29	45.41	80.00	40.00	10.00
LITHIUM, DISSOLVED (UG/L AS LI)	7	83.00	0.00	36.57	31.21	60.00	45.00	5.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	4	90.00	10.00					
SELENIUM, DISSOLVED (UG/L AS SE)	7	2.00	0.00	1.00	0.82	2.00	1.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	4	2.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	21	2020.00	162.00	1142.29	519.02	1525.00	1220.00	846.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	21	2.75	0.22	1.55	0.71	2.08	1.66	1.15
MERCURY, DISSOLVED (UG/L AS HG)	7	0.50	0.00	0.13	0.19	0.20	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	4	0.70	0.00					
SEDIMENT, SUSPENDED (MG/L)	24	6100.00	9.00	603.96	1284.16	379.75	158.50	105.25
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	24	5170.00	0.00	274.45	1062.55	3.42	0.48	0.05

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	4.50	0.00	0.52	0.78	149.17	2.0	2.00	0.83	0.10	0.02	0.00
NOVEMBER	0.65	0.00	0.04	0.09	230.95	0.1	0.18	0.03	0.00	0.00	0.00
DECEMBER	0.09	0.00	0.00	0.01	518.21	0.0	0.01	0.00	0.00	0.00	0.00
JANUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
FEBRUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
MARCH	110.00	0.00	10.60	22.09	208.38	40.1	75.80	9.25	2.00	0.00	0.00
APRIL	407.00	0.00	10.60	49.25	464.45	38.8	20.00	3.90	1.20	0.20	0.01
MAY	6.70	0.00	0.57	1.10	194.13	2.1	3.04	0.54	0.16	0.00	0.00
JUNE	12.00	0.00	0.73	2.23	305.11	2.7	7.12	0.20	0.10	0.06	0.00
JULY	48.00	0.02	1.63	5.35	327.34	6.2	7.34	1.10	0.34	0.08	0.04
AUGUST	47.00	0.00	1.45	5.61	387.10	5.5	5.99	0.68	0.19	0.03	0.00
SEPTEMBER	20.00	0.00	0.66	2.47	372.89	2.4	3.29	0.19	0.13	0.04	0.00
ANNUAL	407.00	0.00	2.24	16.08	717.19	100.0	8.00	0.47	0.06	0.00	0.00

06340890 MISSOURI RIVER TRIBUTARY NO. 2 NEAR HENSLER, ND

LOCATION.--Lat 47°16'31", long 101°11'49", in SW¼NE¼SE¼ sec.21, T.144 N., R.83 W., McLean County, Hydrologic Unit 10130101, on right bank 200 ft (61 m) upstream from culvert on county road, 7.9 mi (12.7 km) west of Washburn, 5.4 mi (8.7 km) northwest of Hensler and 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--9.8 mi^2 (25.4 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC I TERVALS DURING PERIOD OCT,1978 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	7	12.00	0.00	6.43	5.00	11.50	6.50	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	7	128.00	0.31	20.39	47.50	5.80	2.00	0.31
SPECIFIC CONDUCTANCE (MICROMHOS)	5	1920.00	352.00	1294.40	598.70	1750.00	1500.00	736.00
OXYGEN, DISSOLVED (MG/L)	5	13.00	9.50	11.06	1.28	12.20	10.80	10.05
OXYGEN, DISSOLVED (PERCENT SATURATION)	5	99.00	90.00	93.60	3.51	97.00	92.00	91.00
PH (UNITS)	4	8.40	8.20					
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	4	4.40	3.90					
BICARBONATE (MG/L AS HCO3)	4	673.00	390.00					
CARBONATE (MG/L AS CO3)	4	5.00	0.00					
NITROGEN, TOTAL (MG/L AS N)	5	2.60	0.72	1.30	0.79	2.05	0.86	0.78
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	5	1.80	0.63	1.04	0.53	1.60	0.72	0.65
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	5	0.23	0.04	0.10	0.08	0.17	0.09	0.05
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	5	0.63	0.01	0.16	0.27	0.39	0.03	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	5	0.45	0.02	0.14	0.18	0.29	0.08	0.04
PHOSPHORUS, DISSOLVED (MG/L AS P)	5	0.36	0.04	0.12	0.14	0.21	0.06	0.05
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	4	24.00	14.00					
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	3	2.80	0.80					
HARDNESS (MG/L AS CACO3)	5	430.00	87.00	307.40	131.71	405.00	330.00	198.50
HARDNESS, NONCARBONATE (MG/L CACO3)	4	0.00	0.00					
CALCIUM, DISSOLVED (MG/L AS CA)	5	89.00	20.00	64.00	26.32	83.50	67.00	43.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	5	50.00	9.00	36.20	16.21	48.00	41.00	22.00
SODIUM, DISSOLVED (MG/L AS NA)	5	310.00	38.00	193.60	104.33	280.00	220.00	94.00
SODIUM PERCENT	5	61.00	45.00	54.60	6.84	61.00	55.00	48.00
POTASSIUM, DISSOLVED (MG/L AS K)	5	12.00	6.10	7.98	2.41	10.20	6.90	6.30
CHLORIDE, DISSOLVED (MG/L AS CL)	5	5.70	2.50	3.98	1.36	5.30	4.00	2.65
SULFATE, DISSOLVED (MG/L AS SO4)	5	540.00	83.00	354.60	174.27	490.00	410.00	191.50
FLUORIDE, DISSOLVED (MG/L AS F)	5	0.20	0.00	0.14	0.09	0.20	0.20	0.05
SILICA, DISSOLVED (MG/L AS SIO2)	5	14.00	6.60	10.72	3.00	13.50	11.00	7.80
ARSENIC, DISSOLVED (UG/L AS AS)	3	3.00	2.00					
ARSENIC, TOTAL (UG/L AS AS)	2	3.00	2.00					
BARIUM, DISSOLVED (UG/L AS BA)	3	200.00	50.00					
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	2	100.00	100.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	3	1.00	0.00					
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	2	0.00	0.00					
BORON, DISSOLVED (UG/L AS B)	5	220.00	110.00	170.00	43.01	210.00	170.00	130.00
CHROMIUM, DISSOLVED (UG/L AS CR)	3	0.00	0.00					
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	0.00	0.00					
COBALT, DISSOLVED (UG/L AS CO)	3	3.00	0.00					
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	2	1.00	0.00					
COPPER, DISSOLVED (UG/L AS CU)	3	11.00	10.00					
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	2	11.00	9.00					
IRON, DISSOLVED (UG/L AS FE)	5	230.00	10.00	90.20	86.14	165.00	80.00	20.50
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	130.00	40.00					
MANGANESE, DISSOLVED (UG/L AS MN)	3	88.00	22.00					
MOLYBDENUM, DISSOLVED (UG/L AS MO)	3	12.00	0.00					
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	2	1.00	0.00					
NICKEL, DISSOLVED (UG/L AS NI)	3	4.00	1.00					
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	5.00	4.00					
VANADIUM, DISSOLVED (UG/L AS V)	3	6.00	1.00					
ZINC, DISSOLVED (UG/L AS ZN)	3	20.00	3.00					
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	30.00	20.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	3	130.00	10.00					
LITHIUM, DISSOLVED (UG/L AS LI)	3	56.00	13.00					
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	2	40.00	10.00					
SELENIUM, DISSOLVED (UG/L AS SE)	3	1.00	0.00					
SELENIUM, TOTAL (UG/L AS SE)	2	1.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	5	1350.00	227.00	899.00	426.88	1220.00	1050.00	502.50
SOLIDS, DISSOLVED (TONS PER AC-FT)	4	1.84	1.06					
MERCURY, DISSOLVED (UG/L AS HG)	3	0.40	0.10					
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	2	0.30	0.10					
SEDIMENT, SUSPENDED (MG/L)	7	676.00	13.00	128.29	243.42	70.00	42.00	17.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	7	234.00	0.01	33.64	88.35	0.94	0.17	0.06

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1978 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
NOVEMBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
DECEMBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
JANUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
FEBRUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
MARCH	15.00	0.00	1.62	2.82	173.92	12.7	5.85	2.50	0.15	0.00	0.00
APRIL	170.00	0.00	10.02	27.68	276.42	76.1	87.50	4.23	0.69	0.36	0.00
MAY	2.60	0.00	0.41	0.57	139.67	3.2	1.48	0.66	0.18	0.00	0.00
JUNE	3.10	0.00	0.20	0.50	251.07	1.5	1.27	0.19	0.02	0.00	0.00
JULY	19.00	0.00	0.37	2.41	655.71	2.9	0.32	0.11	0.00	0.00	0.00
AUGUST	7.40	0.00	0.44	1.58	363.04	3.4	6.32	0.05	0.00	0.00	0.00
SEPTEMBER	0.19	0.00	0.01	0.04	291.39	0.1	0.12	0.00	0.00	0.00	0.00
ANNUAL	170.00	0.00	1.08	6.41	778.79	100.0	2.54	0.09	0.00	0.00	0.00

06340905 COAL LAKE COULEE NEAR HENSLER, ND

LOCATION.--Lat 47°18'09", long 101°07'52", in SW¼SE¼SE¼ sec.12, T.144 N., R.83 W., McLean County, Hydrologic Unit 10130101, on right bank 100 ft (30 m) upstream from bridge, on county road 4.5 mi (7.2 km) west of Washburn, 3.6 mi (5.8 km) northwest of Hensler, and 0.3 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--7.5 mi^2 (19.5 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	13	25.00	0.00	8.92	7.93	14.50	6.00	2.50
STREAMFLOW, INSTANTANEOUS (CFS)	13	216.00	0.06	21.60	58.85	12.10	2.30	0.73
SPECIFIC CONDUCTANCE (MICROMHOS)	10	1480.00	356.00	694.60	367.13	897.50	587.00	384.00
OXYGEN, DISSOLVED (MG/L)	10	12.70	7.00	10.65	1.97	12.30	11.05	9.33
OXYGEN, DISSOLVED (PERCENT SATURATION)	10	126.00	72.00	99.20	13.80	107.25	97.50	93.50
PH (UNITS)	10	8.70	7.80	8.26	0.28	8.50	8.30	8.00
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	10	3.90	1.20	2.33	0.98	3.27	2.00	1.52
BICARBONATE (MG/L AS HCO3)	10	604.00	98.00	278.40	160.00	381.50	244.50	142.75
CARBONATE (MG/L AS CO3)	10	60.00	0.00	9.90	18.98	17.25	0.50	0.00
NITROGEN, TOTAL (MG/L AS N)	10	2.90	0.90	1.34	0.59	1.45	1.10	0.99
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10	1.80	0.69	1.13	0.38	1.45	1.03	0.83
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10	0.45	0.00	0.09	0.13	0.11	0.04	0.01
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	10	0.68	0.00	0.14	0.22	0.24	0.02	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	10	0.53	0.05	0.16	0.14	0.21	0.11	0.08
PHOSPHORUS, DISSOLVED (MG/L AS P)	10	0.43	0.04	0.12	0.12	0.14	0.08	0.05
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	10	29.00	7.70	16.77	6.17	20.00	17.00	13.25
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	7	2.90	0.30	1.29	0.92	2.00	1.00	0.40
HARDNESS (MG/L AS CACO3)	10	320.00	81.00	177.70	76.16	230.00	180.00	106.50
HARDNESS, NONCARBONATE (MG/L CACO3)	10	12.00	0.00	1.30	3.77	0.25	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	10	61.00	18.00	36.90	15.18	53.50	32.50	23.50
MAGNESIUM, DISSOLVED (MG/L AS MG)	10	40.00	8.70	20.37	10.00	28.00	20.50	11.50
SODIUM, DISSOLVED (MG/L AS NA)	10	250.00	40.00	90.00	68.48	113.00	66.00	43.75
SODIUM PERCENT	10	63.00	33.00	48.00	8.43	53.50	48.00	43.25
POTASSIUM, DISSOLVED (MG/L AS K)	10	17.00	4.90	9.45	3.91	11.75	8.75	6.43
CHLORIDE, DISSOLVED (MG/L AS CL)	9	6.10	2.00	3.37	1.39	4.30	2.70	2.30
SULFATE, DISSOLVED (MG/L AS SO4)	9	300.00	63.00	119.22	76.23	150.00	83.00	79.50
FLUORIDE, DISSOLVED (MG/L AS F)	9	0.20	0.10	0.12	0.04	0.15	0.10	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	9	19.00	3.30	12.39	5.08	16.50	14.00	8.10
ARSENIC, DISSOLVED (UG/L AS AS)	5	4.00	2.00	3.00	1.00	4.00	3.00	2.00
ARSENIC, TOTAL (UG/L AS AS)	4	4.00	2.00					
BARIUM, DISSOLVED (UG/L AS BA)	5	90.00	0.00	62.00	38.34	90.00	80.00	25.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	4	100.00	0.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	5	1.00	0.00	0.80	0.45	1.00	1.00	0.50
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	4	0.00	0.00					
BORON, DISSOLVED (UG/L AS B)	9	250.00	70.00	148.89	58.83	200.00	140.00	100.00
CHROMIUM, DISSOLVED (UG/L AS CR)	5	10.00	0.00	2.00	4.47	5.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	4	20.00	0.00					
COBALT, DISSOLVED (UG/L AS CO)	5	3.00	0.00	2.40	1.34	3.00	3.00	1.50
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	4	3.00	0.00					
COPPER, DISSOLVED (UG/L AS CU)	5	11.00	3.00	7.80	3.11	10.50	8.00	5.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	9.00	4.00					
IRON, DISSOLVED (UG/L AS FE)	10	260.00	30.00	107.00	71.19	155.00	95.00	47.50
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	4	140.00	40.00					
MANGANESE, DISSOLVED (UG/L AS MN)	5	55.00	6.00	21.60	19.86	37.50	20.00	6.50
MOLYBDENUM, DISSOLVED (UG/L AS MO)	5	10.00	2.00	8.40	3.58	10.00	10.00	6.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	4	6.00	1.00					
NICKEL, DISSOLVED (UG/L AS NI)	5	3.00	0.00	1.40	1.34	2.50	2.00	0.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	4	7.00	0.00					
VANADIUM, DISSOLVED (UG/L AS V)	5	6.00	1.00	3.40	2.41	6.00	2.00	1.50
ZINC, DISSOLVED (UG/L AS ZN)	5	11.00	0.00	4.40	4.10	8.00	3.00	1.50
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	4	40.00	10.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	5	150.00	0.00	48.00	59.75	100.00	20.00	10.00
LITHIUM, DISSOLVED (UG/L AS LI)	5	40.00	8.00	21.00	13.49	35.00	15.00	10.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	4	20.00	10.00					
SELENIUM, DISSOLVED (UG/L AS SE)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	4	8.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	10	1000.00	217.00	467.00	258.85	628.25	384.50	260.25
SOLIDS, DISSOLVED (TONS PER AC-FT)	10	1.36	0.30	0.64	0.35	0.85	0.53	0.35
MERCURY, DISSOLVED (UG/L AS HG)	5	0.30	0.00	0.10	0.12	0.20	0.10	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	4	0.50	0.00					
SEDIMENT, SUSPENDED (MG/L)	12	887.00	5.00	102.33	247.96	61.75	27.00	14.25
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	12	517.00	0.01	43.45	149.13	0.88	0.10	0.04

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	0.54	0.00	0.01	0.06	964.37	0.0	0.00	0.00	0.00	0.00	0.00
NOVEMBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
DECEMBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
JANUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
FEBURARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
MARCH	40.00	0.00	3.07	7.04	229.36	11.8	20.90	2.00	0.20	0.00	0.00
APRIL	226.00	0.00	6.85	29.98	437.31	25.6	19.20	1.75	0.80	0.05	0.00
MAY	40.00	0.00	6.57	10.25	156.06	25.3	29.30	13.00	0.13	0.00	0.00
JUNE	15.00	0.00	3.79	5.66	149.59	14.1	14.00	9.23	0.00	0.00	0.00
JULY	17.00	0.00	2.15	4.42	205.92	8.3	13.30	0.85	0.00	0.00	0.00
AUGUST	190.00	0.00	3.77	21.66	574.94	14.5	14.50	0.00	0.00	0.00	0.00
SEPTEMBER	2.30	0.00	0.07	0.29	443.33	0.2	0.35	0.00	0.00	0.00	0.00
ANNUAL	226.00	0.00	2.20	11.66	530.19	100.0	13.00	0.00	0.00	0.00	0.00

06340930 BUFFALO CREEK NEAR WASHBURN, ND

LOCATION.--Lat 47°18'12", long 101°05'20", in SE¼SE¼SE¼ sec.8, T.144 N., R.82 W., McLean County, Hydrologic Unit 10130101, on right bank 70 ft (21 m) upstream from culvert, on county road 1.2 mi (1.9 km) above mouth, and 2.7 mi (4.3 km) west of Washburn.

DRAINAGE AREA.--57.3 mi^2 (148 km^2) of which 30.0 mi^2 (77.7 km^2) is probably noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1978 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	23	23.50	0.00	10.76	8.51	19.00	11.00	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	23	174.00	0.05	10.91	36.50	2.10	0.18	0.12
SPECIFIC CONDUCTANCE (MICROMHOS)	20	4010.00	345.00	2172.40	853.30	2620.00	2410.00	1842.50
OXYGEN, DISSOLVED (MG/L)	19	13.40	5.90	9.22	2.38	11.80	9.00	6.70
OXYGEN, DISSOLVED (PERCENT SATURATION)	19	146.00	62.00	88.26	20.71	100.00	87.00	73.00
PH (UNITS)	20	8.80	7.70	8.30	0.22	8.40	8.30	8.20
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	20	17.00	1.20	6.90	4.20	9.35	6.30	4.50
BICARBONATE (MG/L AS HCO3)	20	2070.00	85.00	852.95	445.52	1055.50	950.00	525.25
CARBONATE (MG/L AS CO3)	20	24.00	0.00	5.95	8.44	13.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	20	4.00	0.62	1.63	0.93	2.23	1.35	0.92
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	20	2.30	0.60	1.30	0.55	1.68	1.20	0.86
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	20	0.58	0.00	0.11	0.15	0.19	0.04	0.01
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	20	1.80	0.00	0.23	0.49	0.11	0.02	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	19	0.52	0.04	0.15	0.15	0.17	0.08	0.05
PHOSPHORUS, DISSOLVED (MG/L AS P)	20	0.41	0.02	0.08	0.10	0.08	0.05	0.02
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	20	65.00	11.00	23.45	12.06	29.75	21.00	15.25
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	18	9.70	0.30	1.46	2.20	1.35	0.80	0.40
HARDNESS (MG/L AS CACO3)	20	400.00	78.00	200.15	77.80	245.00	195.00	145.00
HARDNESS, NONCARBONATE (MG/L CACO3)	20	8.00	0.00	0.40	1.79	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	20	82.00	15.00	37.30	16.20	46.75	34.50	24.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	20	55.00	7.40	25.97	11.14	30.75	24.00	20.50
SODIUM, DISSOLVED (MG/L AS NA)	20	1000.00	28.00	473.40	222.90	572.50	540.00	362.50
SODIUM PERCENT	20	90.00	34.00	78.50	13.77	84.75	84.00	74.75
POTASSIUM, DISSOLVED (MG/L AS K)	20	19.00	6.10	10.70	3.35	12.50	10.00	9.05
CHLORIDE, DISSOLVED (MG/L AS CL)	20	150.00	2.00	14.66	32.06	11.50	6.75	4.68
SULFATE, DISSOLVED (MG/L AS SO4)	20	1000.00	76.00	516.45	217.96	590.00	520.00	435.00
FLUORIDE, DISSOLVED (MG/L AS F)	20	0.80	0.00	0.40	0.20	0.50	0.40	0.23
SILICA, DISSOLVED (MG/L AS SIO2)	20	30.00	1.20	10.58	6.89	12.75	8.90	6.45
ARSENIC, DISSOLVED (UG/L AS AS)	5	6.00	2.00	3.00	1.73	4.50	2.00	2.00
ARSENIC, TOTAL (UG/L AS AS)	4	8.00	3.00					
BARIUM, DISSOLVED (UG/L AS BA)	5	100.00	0.00	44.00	40.37	80.00	50.00	5.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	4	200.00	0.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	5	1.00	0.00	0.60	0.55	1.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	4	10.00	0.00					
BORON, DISSOLVED (UG/L AS B)	20	1100.00	70.00	581.00	273.69	727.50	665.00	362.50
CHROMIUM, DISSOLVED (UG/L AS CR)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	4	20.00	0.00					
COBALT, DISSOLVED (UG/L AS CO)	5	3.00	0.00	1.80	1.64	3.00	3.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	4	7.00	0.00					
COPPER, DISSOLVED (UG/L AS CU)	5	10.00	8.00	9.40	0.89	10.00	10.00	8.50
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	40.00	8.00					
IRON, DISSOLVED (UG/L AS FE)	20	260.00	23.00	103.15	65.51	152.50	80.00	52.50
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	4	470.00	50.00					
MANGANESE, DISSOLVED (UG/L AS MN)	5	120.00	8.00	59.60	47.97	110.00	40.00	19.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	5	10.00	0.00	6.40	4.98	10.00	10.00	1.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	4	50.00	0.00					
NICKEL, DISSOLVED (UG/L AS NI)	5	10.00	2.00	4.80	3.27	8.00	3.00	2.50
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	4	26.00	6.00					
VANADIUM, DISSOLVED (UG/L AS V)	5	6.00	1.00	3.14	1.80	4.50	3.00	1.85
ZINC, DISSOLVED (UG/L AS ZN)	5	20.00	3.00	8.60	6.91	15.00	6.00	3.50
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	4	80.00	30.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	5	170.00	0.00	70.00	74.83	145.00	60.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	5	100.00	4.00	46.00	40.94	88.00	36.00	9.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	4	100.00	10.00					
SELENIUM, DISSOLVED (UG/L AS SE)	5	1.00	0.00	0.20	0.45	0.50	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	4	1.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	20	3120.00	233.00	1526.20	632.39	1805.00	1665.00	1255.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	20	4.24	0.32	2.08	0.86	2.46	2.27	1.71
MERCURY, DISSOLVED (UG/L AS HG)	5	0.20	0.10	0.18	0.04	0.20	0.20	0.15
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	4	0.30	0.10					
SEDIMENT, SUSPENDED (MG/L)	23	824.00	0.28	108.06	174.05	131.00	54.00	20.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	23	387.00	0.00	18.25	80.53	0.10	0.05	0.01

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1978 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	0.23	0.10	0.14	0.03	24.05	0.3	0.18	0.18	0.14	0.11	0.10
NOVEMBER	0.18	0.10	0.13	0.03	21.67	0.3	0.18	0.15	0.12	0.10	0.10
DECEMBER	0.24	0.00	0.12	0.07	55.66	0.3	0.24	0.15	0.10	0.09	0.00
JANUARY	0.09	0.00	0.00	0.02	423.37	0.0	0.05	0.00	0.00	0.00	0.00
FEBURARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
MARCH	40.00	0.00	3.07	7.20	234.94	7.2	20.95	2.50	0.20	0.00	0.00
APRIL	918.00	0.10	38.13	149.53	392.17	86.8	168.00	4.75	2.00	0.21	0.10
MAY	3.50	0.08	0.77	0.93	120.86	1.8	3.00	1.25	0.29	0.10	0.09
JUNE	0.63	0.04	0.14	0.13	93.28	0.3	0.45	0.18	0.08	0.05	0.04
JULY	1.20	0.05	0.13	0.17	134.92	0.3	0.53	0.11	0.09	0.06	0.05
AUGUST	23.00	0.04	0.90	3.18	354.27	2.1	5.32	0.25	0.14	0.09	0.05
SEPTEMBER	1.10	0.11	0.22	0.16	75.23	0.5	0.45	0.21	0.19	0.15	0.12
ANNUAL	918.00	0.00	3.60	43.82	1215.89	100.0	3.50	0.19	0.12	0.06	0.00

06341800 PAINTED WOODS CREEK NEAR WILTON, ND

LOCATION.--Lat 47°16'30", long 100°47'30", in SW¼SW¼ sec.23, T.144 N., R.80 W., McLean County, Hydrologic Unit 10130101, on right bank 600 ft (180 km) upstream from county highway bridge, 7 mi (11 km) upstream from Yanktonai Creek, and 8 mi (13 km) north of Wilton.

DRAINAGE AREA.--427 mi^2 (1,110 km^2), approximately, of which about 310 mi^2 (800 km^2) is probably noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	39	28.00	0.00	9.91	9.44	18.00	8.00	1.00
STREAMFLOW, INSTANTANEOUS (CFS)	39	2900.00	0.03	160.00	521.31	10.00	1.00	0.16
SPECIFIC CONDUCTANCE (MICROMHOS)	39	2700.00	115.00	1361.79	683.37	1810.00	1400.00	820.00
PH (UNITS)	10	9.90	6.70	8.12	0.86	8.60	8.05	7.60
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	10	66.00	0.10	16.23	22.09	34.50	4.45	1.00
BICARBONATE (MG/L AS HCO3)	11	1080.00	72.00	507.45	344.39	903.00	502.00	206.00
CARBONATE (MG/L AS CO3)	11	200.00	0.00	20.00	60.00	0.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	11	590.00	64.00	310.36	164.14	500.00	270.00	220.00
HARDNESS, NONCARBONATE (MG/L CACO3)	11	50.00	0.00	7.73	16.64	5.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	11	110.00	12.00	48.82	34.66	88.00	35.00	21.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	11	77.00	8.30	45.94	21.72	62.00	53.00	32.00
SODIUM, DISSOLVED (MG/L AS NA)	11	440.00	16.00	245.55	143.27	370.00	250.00	110.00
SODIUM PERCENT	11	73.00	33.00	58.00	12.08	63.00	61.00	51.00
POTASSIUM, DISSOLVED (MG/L AS K)	11	12.00	5.10	8.95	2.14	11.00	9.10	7.50
CHLORIDE, DISSOLVED (MG/L AS CL)	11	20.00	1.90	10.72	5.39	13.00	11.00	6.00
SULFATE, DISSOLVED (MG/L AS SO4)	11	640.00	35.00	385.91	192.18	530.00	400.00	290.00
FLUORIDE, DISSOLVED (MG/L AS F)	11	0.20	0.10	0.15	0.05	0.20	0.10	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	11	39.00	1.40	12.92	14.13	30.00	6.00	2.80
BORON, DISSOLVED (UG/L AS B)	11	410.00	0.00	174.61	124.91	250.00	220.00	60.00
IRON, DISSOLVED (UG/L AS FE)	11	1700.00	0.00	317.44	478.57	370.00	150.00	100.00
MANGANESE, DISSOLVED (UG/L AS MN)	11	1200.00	0.80	244.62	373.59	410.00	60.00	20.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	11	1890.00	148.00	1046.82	562.75	1580.00	1140.00	580.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	11	2.57	0.20	1.42	0.77	2.15	1.55	0.79

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	4.20	0.01	0.71	1.04	146.74	0.4	3.11	1.30	0.12	0.03	0.01
NOVEMBER	1.20	0.01	0.35	0.35	99.59	0.2	1.10	0.37	0.27	0.08	0.04
DECEMBER	0.28	0.09	0.18	0.06	34.70	0.1	0.28	0.22	0.20	0.10	0.09
JANUARY	0.20	0.05	0.12	0.04	30.28	0.1	0.18	0.15	0.11	0.09	0.08
FEBURARY	0.17	0.02	0.09	0.05	58.89	0.0	0.17	0.13	0.09	0.03	0.02
MARCH	830.00	0.02	43.06	131.64	305.72	25.0	335.80	5.25	0.21	0.08	0.02
APRIL	3060.00	0.27	112.60	408.81	363.07	63.2	792.80	28.75	7.85	0.96	0.28
MAY	50.00	0.01	7.63	10.16	133.10	4.4	29.90	10.40	4.10	0.32	0.04
JUNE	123.00	0.03	8.19	18.75	229.10	4.6	47.00	3.63	1.80	0.86	0.23
JULY	1.60	0.09	0.38	0.27	71.40	0.2	1.03	0.49	0.32	0.20	0.10
AUGUST	11.00	0.00	0.92	1.91	206.85	0.5	5.62	0.65	0.09	0.06	0.01
SEPTEMBER	99.00	0.00	2.04	10.78	529.61	1.1	4.46	0.67	0.10	0.03	0.01
ANNUAL	3060.00	0.00	14.62	126.82	867.45	100.0	24.15	1.10	0.22	0.09	0.02

06342040 SQUARE BUTTE CREEK NEAR HANNOVER, ND

LOCATION.--Lat 47°08'06", long 101°25'31", in NW¼SW¼NW¼ sec.11, T.142 N., R.85 W., Oliver County, Hydrologic Unit 10130101, on left bank 100 ft (30 m) downstream from box culvert on North Dakota Highway 31, 1.5 mi (2.4 km) north of Hannover, and 2.6 mi (4.2 km) upstream from Brady Creek.

DRAINAGE AREA.--16.9 mi^2 (43.8 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	21	27.00	0.00	10.45	7.99	17.00	7.50	2.50
STREAMFLOW, INSTANTANEOUS (CFS)	21	1360.00	0.07	100.13	318.34	9.50	1.30	0.30
SPECIFIC CONDUCTANCE (MICROMHOS)	18	1550.00	125.00	1029.67	374.75	1235.00	1115.00	1010.00
OXYGEN, DISSOLVED (MG/L)	17	12.50	4.60	10.35	1.94	11.90	10.80	9.25
OXYGEN, DISSOLVED (PERCENT SATURATION)	17	144.00	54.00	101.24	21.75	120.00	99.00	88.00
PH (UNITS)	17	8.60	7.60	8.08	0.27	8.30	8.20	7.83
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	16	10.00	1.30	4.11	2.22	5.38	3.65	2.70
BICARBONATE (MG/L AS HCO3)	16	494.00	44.00	313.25	133.45	417.50	352.00	218.75
CARBONATE (MG/L AS CO3)	16	19.00	0.00	1.19	4.75	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	18	3.10	0.32	1.05	0.73	1.33	0.82	0.56
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	18	2.10	0.31	0.84	0.44	0.93	0.80	0.50
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	18	0.66	0.00	0.12	0.21	0.09	0.04	0.01
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	18	0.50	0.00	0.10	0.15	0.10	0.03	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	18	0.47	0.03	0.12	0.15	0.11	0.05	0.04
PHOSPHORUS, DISSOLVED (MG/L AS P)	18	0.41	0.00	0.09	0.11	0.12	0.05	0.03
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	18	39.00	7.80	14.86	7.96	18.50	14.00	8.58
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	16	4.70	0.10	0.96	1.14	1.03	0.60	0.33
HARDNESS (MG/L AS CACO3)	17	620.00	42.00	374.82	158.41	485.00	430.00	310.00
HARDNESS, NONCARBONATE (MG/L CACO3)	16	240.00	6.00	101.25	67.27	150.00	81.50	47.00
CALCIUM, DISSOLVED (MG/L AS CA)	18	110.00	9.30	73.07	31.93	100.00	83.50	47.25
MAGNESIUM, DISSOLVED (MG/L AS MG)	18	84.00	4.60	45.81	21.93	58.00	54.50	32.50
SODIUM, DISSOLVED (MG/L AS NA)	18	130.00	6.20	86.51	35.81	110.00	98.00	76.75
SODIUM PERCENT	18	45.00	22.00	33.72	6.90	40.00	32.50	30.00
POTASSIUM, DISSOLVED (MG/L AS K)	18	17.00	4.40	8.81	3.41	11.00	8.00	6.55
CHLORIDE, DISSOLVED (MG/L AS CL)	18	9.70	1.30	6.46	2.30	8.40	6.55	5.05
SULFATE, DISSOLVED (MG/L AS SO4)	18	520.00	25.00	298.28	125.88	357.50	330.00	265.00
FLUORIDE, DISSOLVED (MG/L AS F)	18	0.60	0.10	0.38	0.15	0.50	0.40	0.30
SILICA, DISSOLVED (MG/L AS SIO2)	18	19.00	0.42	8.52	4.26	10.50	8.45	6.33
ARSENIC, DISSOLVED (UG/L AS AS)	9	3.00	0.00	1.22	0.83	1.50	1.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	6	3.00	1.00	1.83	0.75	2.25	2.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	9	300.00	0.00	81.11	89.08	90.00	70.00	25.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	6	200.00	0.00	116.67	75.28	200.00	100.00	75.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	9	1.00	0.00	0.56	0.53	1.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	6	10.00	0.00	2.50	4.18	6.25	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	18	310.00	60.00	197.22	66.40	240.00	190.00	167.50
CHROMIUM, DISSOLVED (UG/L AS CR)	9	10.00	0.00	2.00	4.00	4.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	6	20.00	0.00	6.67	8.16	12.50	5.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	9	3.00	0.00	1.89	1.45	3.00	3.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	6	2.00	0.00	0.83	0.98	2.00	0.50	0.00
COPPER, DISSOLVED (UG/L AS CU)	9	14.00	2.00	6.22	4.12	10.00	5.00	3.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	6	18.00	4.00	7.17	5.46	9.75	5.00	4.00
IRON, DISSOLVED (UG/L AS FE)	18	220.00	10.00	62.89	53.58	77.50	48.00	29.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	330.00	20.00	116.67	112.01	165.00	105.00	27.50
MANGANESE, DISSOLVED (UG/L AS MN)	9	100.00	0.00	44.67	42.02	90.00	20.00	8.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	9	10.00	0.00	4.67	5.07	10.00	1.00	0.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	6	5.00	0.00	1.67	2.25	4.25	0.50	0.00
NICKEL, DISSOLVED (UG/L AS NI)	9	3.00	0.00	1.67	1.41	3.00	2.00	0.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	6	17.00	2.00	5.83	5.60	8.00	4.00	2.75
VANADIUM, DISSOLVED (UG/L AS V)	9	6.00	0.20	2.37	2.21	4.50	1.50	0.80
ZINC, DISSOLVED (UG/L AS ZN)	9	20.00	0.00	7.56	6.31	11.50	6.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	6	60.00	0.00	20.00	20.98	30.00	15.00	7.50
ALUMINUM, DISSOLVED (UG/L AS AL)	9	40.00	0.00	15.56	16.67	35.00	10.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	9	70.00	4.00	41.89	25.26	60.00	50.00	12.50
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	6	60.00	3.00	31.50	27.90	60.00	30.00	5.25
SELENIUM, DISSOLVED (UG/L AS SE)	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	18	1120.00	81.00	710.17	269.95	874.25	775.50	671.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	18	1.52	0.11	0.97	0.37	1.19	1.05	0.91
MERCURY, DISSOLVED (UG/L AS HG)	9	0.20	0.00	0.03	0.07	0.05	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	6	0.40	0.00	0.12	0.15	0.18	0.10	0.00
SEDIMENT, SUSPENDED (MG/L)	20	425.00	3.00	48.70	99.34	35.25	17.50	8.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	20	1560.00	0.00	95.91	353.39	0.31	0.03	0.01

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	2.20	0.00	0.18	0.40	216.48	0.6	0.78	0.28	0.00	0.00	0.00
NOVEMBER	0.32	0.00	0.08	0.09	114.83	0.3	0.25	0.19	0.05	0.00	0.00
DECEMBER	0.50	0.00	0.03	0.08	277.75	0.1	0.20	0.01	0.00	0.00	0.00
JANUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
FEBRUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
MARCH	190.00	0.00	11.21	30.40	271.04	36.3	73.00	3.50	0.00	0.00	0.00
APRIL	650.00	0.00	17.06	81.46	477.54	53.4	35.85	4.85	2.00	0.68	0.00
MAY	8.50	0.00	0.92	1.31	142.34	3.0	2.40	1.00	0.52	0.22	0.00
JUNE	21.00	0.00	1.16	2.69	232.45	3.6	3.84	0.83	0.45	0.08	0.00
JULY	10.00	0.00	0.49	1.57	320.65	1.6	4.05	0.09	0.00	0.00	0.00
AUGUST	15.00	0.00	0.29	1.66	570.71	0.9	0.83	0.00	0.00	0.00	0.00
SEPTEMBER	2.50	0.00	0.10	0.37	389.18	0.3	0.57	0.00	0.00	0.00	0.00
ANNUAL	650.00	0.00	2.62	25.42	968.65	100.0	4.63	0.32	0.00	0.00	0.00

06342200 SQUARE BUTTE CREEK ABOVE NELSON LAKE NEAR CENTER, ND

LOCATION.--Lat 47°06'08", long 101°15'22", in SW¼NW¼SW¼ sec.19, T.142 N., R.83 W., Oliver County, Hydrologic Unit 10130101, on left bank 30 ft (9 m) downstream from bridge on county road 2 mi (3.2 km) southeast of Center, and 2 mi (3.2 km) upstream from Nelson Lake.

DRAINAGE AREA.--75.8 mi^2 (196 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	42	26.00	0.00	9.05	7.92	15.13	7.00	1.75
STREAMFLOW, INSTANTANEOUS (CFS)	43	3240.00	0.61	96.56	494.70	8.20	1.63	1.10
SPECIFIC CONDUCTANCE (MICROMHOS)	37	1440.00	110.00	1049.05	341.63	1250.00	1180.00	950.00
OXYGEN, DISSOLVED (MG/L)	34	12.80	6.20	9.15	1.88	10.67	9.00	7.60
OXYGEN, DISSOLVED (PERCENT SATURATION)	34	113.00	57.00	84.00	15.38	94.25	88.00	72.00
PH (UNITS)	36	14.50	7.50	8.22	1.11	8.28	8.10	7.83
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	35	27.00	1.70	7.41	5.93	10.00	5.00	3.40
BICARBONATE (MG/L AS HCO3)	35	564.00	82.00	427.29	129.75	512.00	464.00	410.00
CARBONATE (MG/L AS CO3)	35	22.00	0.00	0.66	3.72	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	37	5.70	0.60	2.26	1.14	3.10	1.90	1.40
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	37	2.50	0.27	0.85	0.43	0.94	0.84	0.62
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	37	0.83	0.01	0.18	0.18	0.26	0.11	0.06
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	37	4.70	0.01	1.23	1.10	1.85	0.85	0.45
PHOSPHORUS, TOTAL (MG/L AS P)	37	0.52	0.01	0.07	0.08	0.09	0.05	0.03
PHOSPHORUS, DISSOLVED (MG/L AS P)	37	0.43	0.00	0.03	0.07	0.02	0.01	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	36	47.00	5.20	13.34	8.30	14.75	10.00	8.35
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	33	5.00	0.20	1.12	0.92	1.40	0.90	0.55
HARDNESS (MG/L AS CACO3)	37	410.00	68.00	272.38	74.07	320.00	290.00	255.00
HARDNESS, NONCARBONATE (MG/L CACO3)	36	26.00	0.00	2.06	5.80	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	37	83.00	16.00	57.14	15.75	69.00	60.00	48.50
MAGNESIUM, DISSOLVED (MG/L AS MG)	37	48.00	6.70	31.52	8.85	36.50	34.00	29.00
SODIUM, DISSOLVED (MG/L AS NA)	37	210.00	14.00	146.35	49.73	180.00	160.00	130.00
SODIUM PERCENT	37	69.00	29.00	52.27	8.13	56.50	53.00	50.50
POTASSIUM, DISSOLVED (MG/L AS K)	37	18.00	4.60	6.78	2.08	7.15	6.40	6.00
CHLORIDE, DISSOLVED (MG/L AS CL)	37	12.00	1.40	6.40	1.96	7.30	6.30	5.40
SULFATE, DISSOLVED (MG/L AS SO4)	37	410.00	38.00	229.62	77.86	270.00	230.00	195.00
FLUORIDE, DISSOLVED (MG/L AS F)	37	0.50	0.10	0.25	0.08	0.30	0.30	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	37	25.00	5.10	11.95	5.51	16.00	11.00	7.35
ARSENIC, DISSOLVED (UG/L AS AS)	11	2.00	1.00	1.27	0.47	2.00	1.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	6	4.00	1.00	2.17	0.98	2.50	2.00	1.75
BARIUM, DISSOLVED (UG/L AS BA)	11	600.00	50.00	182.73	157.04	200.00	150.00	80.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	6	200.00	0.00	66.67	81.65	125.00	50.00	0.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	11	1.00	0.00	0.64	0.50	1.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	6	5.00	0.00	0.83	2.04	1.25	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	36	750.00	70.00	332.22	151.09	377.50	300.00	252.50
CHROMIUM, DISSOLVED (UG/L AS CR)	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	6	10.00	0.00	5.83	4.92	10.00	7.50	0.00
COBALT, DISSOLVED (UG/L AS CO)	11	3.00	0.00	2.00	1.41	3.00	3.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	6	2.00	0.00	0.67	0.82	1.25	0.50	0.00
COPPER, DISSOLVED (UG/L AS CU)	11	36.00	0.00	8.73	9.89	10.00	9.00	2.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	6	31.00	1.00	7.83	11.46	11.50	4.00	1.75
IRON, DISSOLVED (UG/L AS FE)	36	310.00	0.00	58.00	60.18	67.50	40.00	21.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	360.00	90.00	158.33	100.28	195.00	125.00	105.00
MANGANESE, DISSOLVED (UG/L AS MN)	11	220.00	20.00	91.00	52.62	110.00	90.00	60.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	11	11.00	0.00	6.91	4.57	10.00	10.00	2.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	6	3.00	0.00	2.00	1.26	3.00	2.50	0.75
NICKEL, DISSOLVED (UG/L AS NI)	11	9.00	0.00	3.00	2.49	4.00	3.00	1.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	6	18.00	3.00	7.17	6.11	12.75	4.00	3.00
VANADIUM, DISSOLVED (UG/L AS V)	11	6.00	0.00	2.31	2.51	6.00	1.00	0.20
ZINC, DISSOLVED (UG/L AS ZN)	11	10.00	3.00	6.36	3.53	10.00	5.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	6	60.00	0.00	26.67	21.60	45.00	25.00	7.50
ALUMINUM, DISSOLVED (UG/L AS AL)	11	60.00	0.00	9.09	18.14	10.00	0.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	11	63.00	8.00	41.00	17.44	57.00	40.00	30.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	6	60.00	10.00	31.67	19.41	52.50	25.00	17.50
SELENIUM, DISSOLVED (UG/L AS SE)	11	1.00	0.00	0.27	0.47	1.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	6	1.00	0.00	0.17	0.41	0.25	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	37	1030.00	137.00	717.84	215.09	838.00	765.00	653.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	37	1.40	0.19	0.98	0.29	1.14	1.04	0.89
MERCURY, DISSOLVED (UG/L AS HG)	11	0.20	0.00	0.05	0.07	0.10	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	6	0.20	0.00	0.08	0.08	0.13	0.10	0.00
SEDIMENT, SUSPENDED (MG/L)	41	2140.00	6.00	102.32	327.89	63.00	40.00	29.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	41	18700.00	0.02	462.77	2919.50	0.99	0.24	0.13

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS						PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION	PERCENT OF ANNUAL RUNOFF	95	75	50 MEDIAN	25	5
OCTOBER	4.90	0.67	1.65	1.02	61.64	1.6	4.30	1.95	1.20	1.00	0.80
NOVEMBER	1.90	0.72	1.17	0.25	20.91	1.1	1.60	1.40	1.20	1.00	0.80
DECEMBER	1.60	0.90	1.15	0.14	11.98	1.1	1.40	1.20	1.10	1.10	0.96
JANUARY	1.40	0.70	1.10	0.16	14.85	1.1	1.30	1.20	1.10	1.00	0.80
FEBURARY	1.40	0.50	1.01	0.21	20.34	0.9	1.30	1.20	1.00	0.90	0.66
MARCH	550.00	0.01	36.87	106.65	289.26	35.9	343.00	9.25	1.40	1.10	0.20
APRIL	1370.00	0.79	47.05	172.33	366.29	44.3	126.30	30.25	8.70	4.08	1.10
MAY	22.00	0.61	4.73	4.01	84.83	4.6	13.00	6.00	3.90	1.60	0.80
JUNE	32.00	0.87	4.34	5.62	129.49	4.1	18.80	3.80	2.70	2.05	1.36
JULY	9.00	0.57	1.82	1.12	61.84	1.8	3.69	2.25	1.50	1.10	0.89
AUGUST	35.00	0.18	2.32	4.61	198.63	2.3	11.30	1.75	1.10	0.61	0.24
SEPTEMBER	4.60	0.38	1.43	0.74	51.65	1.3	2.75	1.60	1.30	1.08	0.53
ANNUAL	1370.00	0.01	8.72	60.01	687.85	100.0	17.00	2.50	1.30	1.00	0.66

06342230 HAGEL CREEK NEAR CENTER, ND

LOCATION.--Lat 47°03'58", long 101°14'11", in SE¼NE¼NE¼ sec.6, T.141 N., R.83 W., Oliver County, Hydrologic Unit 10130101, on right bank 1,200 ft (366 m) upstream from bridge on county road, 0.8 mi (1.3 km) upstream from Nelson Lake, 1 mi (1.6 km) west of Milton R. Young Powerplant, and 4.5 mi (7.2 km) southeast of Center.

DRAINAGE AREA.--45.6 mi^2 (118 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	28	25.00	0.00	8.75	8.26	16.75	6.25	1.00
STREAMFLOW, INSTANTANEOUS (CFS)	29	217.00	0.02	36.78	66.54	45.00	2.30	0.20
SPECIFIC CONDUCTANCE (MICROMHOS)	24	2130.00	178.00	1087.42	477.24	1428.75	1140.00	740.00
OXYGEN, DISSOLVED (MG/L)	22	14.20	4.70	9.66	2.71	11.65	10.05	7.38
OXYGEN, DISSOLVED (PERCENT SATURATION)	22	133.00	12.30	84.06	26.16	97.25	89.50	71.50
PH (UNITS)	23	9.10	7.00	8.19	0.48	8.50	8.20	8.00
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	23	48.00	0.30	6.88	10.25	7.20	3.30	1.90
BICARBONATE (MG/L AS HCO3)	23	1010.00	62.00	408.13	235.80	561.00	390.00	239.00
CARBONATE (MG/L AS CO3)	23	23.00	0.00	4.65	8.12	8.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	24	5.20	0.96	1.85	0.96	2.18	1.50	1.30
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	24	5.10	0.46	1.54	0.92	1.88	1.35	1.03
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	24	0.46	0.00	0.14	0.13	0.25	0.12	0.02
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	24	0.58	0.00	0.17	0.22	0.38	0.05	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	24	0.40	0.03	0.14	0.10	0.16	0.11	0.07
PHOSPHORUS, DISSOLVED (MG/L AS P)	24	0.27	0.01	0.08	0.07	0.09	0.06	0.03
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	23	31.00	7.60	18.06	6.04	23.00	18.00	15.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	22	3.40	0.30	1.44	0.80	2.20	1.35	0.85
HARDNESS (MG/L AS CACO3)	24	460.00	46.00	201.96	96.49	260.00	200.00	140.00
HARDNESS, NONCARBONATE (MG/L CACO3)	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	24	110.00	11.00	37.71	21.06	43.75	34.00	24.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	24	45.00	4.60	26.10	11.97	36.75	26.00	16.00
SODIUM, DISSOLVED (MG/L AS NA)	24	400.00	18.00	181.17	92.49	245.00	190.00	110.00
SODIUM PERCENT	24	81.00	43.00	63.42	8.11	68.00	65.00	58.25
POTASSIUM, DISSOLVED (MG/L AS K)	24	18.00	4.40	9.23	3.27	10.75	9.60	6.23
CHLORIDE, DISSOLVED (MG/L AS CL)	24	10.00	1.60	4.35	1.94	5.18	4.20	2.98
SULFATE, DISSOLVED (MG/L AS SO4)	24	460.00	32.00	237.29	118.78	320.00	240.00	162.50
FLUORIDE, DISSOLVED (MG/L AS F)	24	0.30	0.00	0.17	0.07	0.20	0.20	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	24	13.00	0.40	4.63	3.44	7.48	3.70	1.55
ARSENIC, DISSOLVED (UG/L AS AS)	9	3.00	1.00	2.00	0.71	2.50	2.00	1.50
ARSENIC, TOTAL (UG/L AS AS)	7	4.00	0.20	2.31	1.45	4.00	2.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	10	500.00	0.00	124.00	142.22	140.00	85.00	55.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	7	400.00	100.00	200.00	100.00	200.00	200.00	100.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	10	1.00	0.00	0.70	0.48	1.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	24	750.00	80.00	380.00	167.72	485.00	400.00	260.00
CHROMIUM, DISSOLVED (UG/L AS CR)	8	10.00	0.00	1.75	3.62	3.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	7	20.00	0.00	5.71	7.87	10.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	10	3.00	0.00	2.30	1.25	3.00	3.00	1.50
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	7	2.00	0.00	0.86	0.90	2.00	1.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	10	11.00	1.00	5.60	3.69	10.00	5.50	2.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	7	21.00	2.00	6.57	6.60	7.00	5.00	2.00
IRON, DISSOLVED (UG/L AS FE)	24	700.00	24.00	153.92	162.90	212.50	95.00	62.50
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	7	320.00	60.00	182.86	106.26	320.00	170.00	70.00
MANGANESE, DISSOLVED (UG/L AS MN)	10	240.00	0.00	63.00	76.40	97.75	35.00	4.75
MOLYBDENUM, DISSOLVED (UG/L AS MO)	10	10.00	1.00	7.40	4.20	10.00	10.00	1.75
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	7	9.00	0.00	2.29	3.04	2.00	1.00	1.00
NICKEL, DISSOLVED (UG/L AS NI)	10	8.00	0.00	2.60	2.55	4.25	2.00	0.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	7	18.00	6.00	8.43	4.47	10.00	6.00	6.00
VANADIUM, DISSOLVED (UG/L AS V)	10	6.00	0.20	2.98	2.44	6.00	1.70	1.00
ZINC, DISSOLVED (UG/L AS ZN)	10	15.00	3.00	8.30	4.64	11.25	9.50	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	7	70.00	0.00	30.00	24.49	50.00	20.00	10.00
ALUMINUM, DISSOLVED (UG/L AS AL)	10	60.00	0.00	16.06	22.16	27.50	5.30	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	10	54.00	10.00	36.70	14.62	50.00	40.00	26.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	7	60.00	10.00	37.14	19.76	60.00	30.00	20.00
SELENIUM, DISSOLVED (UG/L AS SE)	10	1.00	0.00	0.10	0.32	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	7	1.00	0.00	0.14	0.38	0.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	24	1490.00	112.00	721.92	330.67	999.75	753.50	476.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	24	2.03	0.15	0.98	0.45	1.36	1.03	0.65
MERCURY, DISSOLVED (UG/L AS HG)	10	3.40	0.00	0.37	1.07	0.10	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	6	3.30	0.00	0.63	1.31	0.98	0.10	0.08
SEDIMENT, SUSPENDED (MG/L)	27	1440.00	4.00	98.37	272.06	76.00	27.00	20.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	27	844.00	0.00	37.95	162.23	1.30	0.22	0.01

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	5.30	0.00	0.57	1.09	192.54	0.9	2.82	0.78	0.00	0.00	0.00
NOVEMBER	0.36	0.00	0.10	0.09	95.88	0.1	0.29	0.19	0.07	0.01	0.00
DECEMBER	0.73	0.00	0.14	0.18	131.94	0.2	0.61	0.20	0.06	0.02	0.00
JANUARY	0.20	0.00	0.05	0.07	148.65	0.1	0.20	0.10	0.00	0.00	0.00
FEBURARY	0.10	0.00	0.02	0.03	171.77	0.0	0.10	0.02	0.00	0.00	0.00
MARCH	250.00	0.00	22.34	55.92	250.37	33.9	186.00	8.75	2.20	0.01	0.00
APRIL	335.00	0.38	31.41	51.82	164.99	46.2	110.35	54.25	6.10	2.35	0.50
MAY	46.00	0.00	4.24	8.65	204.07	6.4	28.50	3.30	1.70	0.16	0.00
JUNE	138.00	0.00	5.53	19.80	357.70	8.1	21.85	1.55	0.53	0.27	0.04
JULY	28.00	0.00	1.01	3.83	379.66	1.5	3.72	0.49	0.17	0.02	0.00
AUGUST	40.00	0.00	1.49	4.54	304.37	2.3	6.68	0.67	0.21	0.00	0.00
SEPTEMBER	4.50	0.00	0.14	0.54	377.84	0.2	0.58	0.10	0.00	0.00	0.00
ANNUAL	335.00	0.00	5.59	24.88	445.39	100.0	24.45	0.93	0.10	0.00	0.00

06342260 SQUARE BUTTE CREEK BELOW CENTER, ND

LOCATION.--Lat 47°03'25", long 101°11'35", in SE¼ sec.4, T.141 N., R.83 W., Oliver County, Hydrologic Unit 10130101, on right bank at southeast corner of farmyard, and 6 mi (10 km) southeast of Center.

DRAINAGE AREA.--146 mi^2 (378 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	42	24.00	0.00	10.82	7.99	17.62	11.00	2.00
STREAMFLOW, INSTANTANEOUS (CFS)	43	1020.00	0.90	74.38	207.13	6.40	1.60	1.40
SPECIFIC CONDUCTANCE (MICROMHOS)	43	1500.00	480.00	1148.26	261.85	1300.00	1180.00	1050.00
PH (UNITS)	6	8.30	7.60	7.93	0.27	8.22	7.85	7.75
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	6	11.00	1.10	6.52	3.58	9.65	6.60	3.72
BICARBONATE (MG/L AS HCO3)	6	456.00	130.00	321.17	155.60	453.75	377.00	133.00
CARBONATE (MG/L AS CO3)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	6	430.00	130.00	298.33	119.90	400.00	330.00	167.50
HARDNESS, NONCARBONATE (MG/L CACO3)	6	170.00	0.00	49.00	64.59	95.00	27.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	6	85.00	28.00	64.00	27.36	85.00	77.50	30.25
MAGNESIUM, DISSOLVED (MG/L AS MG)	6	53.00	15.00	33.67	13.44	45.50	33.00	22.50
SODIUM, DISSOLVED (MG/L AS NA)	6	210.00	65.00	143.67	58.84	187.50	165.00	74.00
SODIUM PERCENT	6	53.00	47.00	50.17	1.94	51.50	50.00	49.25
POTASSIUM, DISSOLVED (MG/L AS K)	6	11.00	4.30	6.77	2.53	8.90	6.05	4.82
CHLORIDE, DISSOLVED (MG/L AS CL)	6	11.00	4.10	7.27	2.58	9.65	7.10	4.85
SULFATE, DISSOLVED (MG/L AS SO4)	6	620.00	150.00	340.00	165.77	470.00	305.00	217.50
FLUORIDE, DISSOLVED (MG/L AS F)	6	0.60	0.20	0.33	0.15	0.45	0.30	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	6	20.00	3.10	13.50	6.64	19.25	15.50	6.70
BORON, DISSOLVED (UG/L AS B)	6	1500.00	90.00	500.00	507.74	697.50	390.00	172.50
IRON, DISSOLVED (UG/L AS FE)	6	410.00	0.00	151.67	151.32	237.50	160.00	0.00
MANGANESE, DISSOLVED (UG/L AS MN)	6	150.00	30.00	81.67	47.08	127.50	75.00	37.50
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	6	1150.00	364.00	775.50	296.57	1000.75	851.50	454.75
SOLIDS, DISSOLVED (TONS PER AC-FT)	6	1.56	0.50	1.05	0.40	1.36	1.15	0.62

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS						PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION	PERCENT OF ANNUAL RUNOFF	95	75	50 MEDIAN	25	5
OCTOBER	2.50	0.71	1.60	0.42	26.12	0.9	2.40	1.90	1.60	1.35	0.82
NOVEMBER	4.70	0.80	1.54	0.69	45.08	0.8	2.69	1.70	1.20	1.20	0.93
DECEMBER	4.70	1.10	2.04	1.10	53.67	1.2	4.50	2.50	1.50	1.30	1.10
JANUARY	2.00	1.00	1.48	0.31	20.93	0.8	1.93	1.70	1.50	1.20	1.00
FEBURARY	53.00	0.90	3.50	10.09	288.09	1.8	33.40	1.40	1.20	1.00	0.90
MARCH	1120.00	0.90	67.32	212.87	316.20	38.5	604.00	5.65	4.10	2.15	0.90
APRIL	2600.00	1.40	72.79	288.95	396.99	40.3	197.55	48.50	9.80	1.68	1.51
MAY	78.00	1.10	6.95	14.43	207.52	4.0	51.20	6.50	1.40	1.30	1.10
JUNE	246.00	1.00	12.04	39.98	332.19	6.7	29.54	6.30	3.75	2.40	1.06
JULY	6.20	1.10	3.09	1.83	59.23	1.8	6.10	4.95	2.00	1.60	1.30
AUGUST	16.00	0.98	3.26	2.37	72.95	1.9	6.60	5.35	2.10	1.60	1.10
SEPTEMBER	6.30	0.02	2.57	2.36	92.07	1.4	6.30	6.10	1.30	0.84	0.20
ANNUAL	2600.00	0.02	14.85	106.63	718.09	100.0	24.15	4.50	1.70	1.20	0.96

06342450 BURNT CREEK NEAR BISMARCK, ND

LOCATION.--Lat 46°54'54", long 100°48'48", in SW¼NW¼SW¼ sec.29, T.140 N., R. 80 W., Burleigh County, Hydrologic Unit 10130101, on left bank on upstream side of county highway bridge, and 7 mi (11 km) northwest of Bismarck.

DRAINAGE AREA.--108 mi^2 (280 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	38	22.00	0.00	5.43	7.14	10.50	1.00	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	38	5000.00	0.01	214.68	833.93	49.00	5.25	0.73
SPECIFIC CONDUCTANCE (MICROMHOS)	38	1650.00	110.00	856.58	496.98	1300.00	900.00	362.50
PH (UNITS)	5	8.60	7.50	8.06	0.43	8.45	8.10	7.65
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	5	17.00	0.30	6.12	6.45	11.70	3.50	1.85
BICARBONATE (MG/L AS HCO3)	5	500.00	72.00	297.20	186.51	467.00	345.00	103.50
CARBONATE (MG/L AS CO3)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	5	380.00	49.00	235.80	143.96	360.00	290.00	84.50
HARDNESS, NONCARBONATE (MG/L CACO3)	5	9.00	0.00	3.20	4.44	8.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	5	56.00	8.10	37.22	20.06	53.00	47.00	16.55
MAGNESIUM, DISSOLVED (MG/L AS MG)	5	58.00	7.10	34.62	23.10	56.00	40.00	10.55
SODIUM, DISSOLVED (MG/L AS NA)	5	160.00	6.10	83.42	67.42	145.00	100.00	13.55
SODIUM PERCENT	5	47.00	19.00	36.00	12.33	46.00	42.00	23.00
POTASSIUM, DISSOLVED (MG/L AS K)	5	6.70	4.30	5.62	0.97	6.55	5.60	4.70
CHLORIDE, DISSOLVED (MG/L AS CL)	5	6.60	1.40	4.74	2.18	6.40	5.80	2.55
SULFATE, DISSOLVED (MG/L AS SO4)	5	320.00	7.00	177.20	140.67	300.00	230.00	28.00
FLUORIDE, DISSOLVED (MG/L AS F)	5	0.30	0.10	0.18	0.08	0.25	0.20	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	5	8.30	2.00	5.66	2.48	7.60	6.70	3.20
BORON, DISSOLVED (UG/L AS B)	5	300.00	60.00	184.00	110.59	295.00	180.00	75.00
IRON, DISSOLVED (UG/L AS FE)	5	1300.00	0.00	330.00	549.91	770.00	70.00	20.00
MANGANESE, DISSOLVED (UG/L AS MN)	5	160.00	0.00	50.00	63.25	100.00	30.00	10.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	5	887.00	84.00	510.00	340.28	818.50	593.00	160.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	5	1.21	0.11	0.69	0.47	1.11	0.81	0.21

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	4.50	0.00	0.31	0.75	241.06	0.2	1.79	0.20	0.10	0.00	0.00
NOVEMBER	1.70	0.00	0.16	0.38	235.23	0.1	1.23	0.10	0.00	0.00	0.00
DECEMBER	0.90	0.00	0.32	0.34	104.23	0.2	0.90	0.60	0.30	0.00	0.00
JANUARY	0.49	0.00	0.23	0.19	82.33	0.2	0.48	0.44	0.20	0.00	0.00
FEBURARY	0.39	0.00	0.15	0.15	102.05	0.1	0.38	0.33	0.08	0.00	0.00
MARCH	520.00	0.00	39.39	106.27	269.79	28.9	330.00	9.00	1.70	0.31	0.00
APRIL	3900.00	0.21	88.65	479.59	541.02	62.9	190.25	19.25	9.70	1.95	0.64
MAY	41.00	0.00	5.76	5.52	95.90	4.2	15.00	8.25	4.10	3.10	0.08
JUNE	6.00	0.01	1.72	1.42	82.26	1.2	4.84	2.60	1.20	0.92	0.02
JULY	7.80	0.00	0.75	1.45	193.69	0.5	4.16	0.65	0.28	0.00	0.00
AUGUST	18.00	0.00	0.59	2.35	395.39	0.4	3.99	0.03	0.00	0.00	0.00
SEPTEMBER	56.00	0.00	1.23	6.34	517.22	0.9	5.45	0.21	0.02	0.00	0.00
ANNUAL	3900.00	0.00	11.56	142.47	1232.01	100.0	15.15	1.50	0.25	0.00	0.00

06342500 MISSOURI RIVER AT BISMARCK, ND

LOCATION.--Lat 46°48'51", long 100°49'12", in SE¼NW¼SE¼ sec.31, T.139 N., R.80 W., Burleigh County, Hydrologic Unit 10130101, on left bank 40 ft (12 m) upstream from Bismarck city waterplant, 2,100 ft (640 m) downstream from Burlington Northern Railway bridge, 1.6 mi (2.6 km) northwest of Bismarck Post Office, 3.5 mi (5.6 km) upstream from Heart River, and at mile 1,314.5 (2,115.0 km).

DRAINAGE AREA.--186,400 mi^2 (482,800 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	66	17.00	0.00	7.77	6.30	14.00	8.25	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	24	32000.00	14800.00	24204.16	5242.09	29874.95	24450.00	20700.00
SPECIFIC CONDUCTANCE (MICROMHOS)	59	822.00	510.00	704.49	52.83	735.00	700.00	675.00
OXYGEN, DISSOLVED (MG/L)	55	13.20	8.30	10.95	1.59	12.50	10.70	9.50
OXYGEN, DISSOLVED (PERCENT SATURATION)	33	103.00	79.00	92.06	6.03	96.00	93.00	87.00
PH (UNITS)	59	8.60	7.80	8.32	0.16	8.40	8.30	8.30
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	12	2.70	0.80	1.47	0.56	1.72	1.30	1.05
BICARBONATE (MG/L AS HCO3)	12	220.00	180.00	195.00	11.68	200.00	190.00	190.00
CARBONATE (MG/L AS CO3)	12	5.00	0.00	0.83	1.47	1.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	57	1.80	0.13	0.54	0.29	0.62	0.47	0.39
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	57	1.80	0.00	0.37	0.28	0.45	0.30	0.21
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	57	0.16	0.00	0.02	0.03	0.02	0.01	0.00
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	58	0.43	0.03	0.15	0.08	0.20	0.15	0.09
PHOSPHORUS, TOTAL (MG/L AS P)	57	0.42	0.00	0.05	0.07	0.04	0.03	0.02
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	47	15.00	2.50	4.41	2.30	4.90	3.80	3.20
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	44	1.50	0.00	0.35	0.29	0.40	0.30	0.20
HARDNESS (MG/L AS CACO3)	34	260.00	210.00	236.47	11.25	250.00	235.00	230.00
HARDNESS, NONCARBONATE (MG/L CACO3)	34	100.00	62.00	82.79	9.68	88.25	81.50	76.75
CALCIUM, DISSOLVED (MG/L AS CA)	34	61.00	47.00	55.88	2.89	58.00	56.00	54.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	35	26.00	22.00	23.54	1.29	24.00	23.00	22.00
SODIUM, DISSOLVED (MG/L AS NA)	35	80.00	58.00	69.14	6.36	75.00	67.00	65.00
SODIUM PERCENT	35	54.00	3.00	38.80	7.98	40.00	39.00	37.00
POTASSIUM, DISSOLVED (MG/L AS K)	35	5.00	2.70	4.34	0.39	4.60	4.30	4.20
CHLORIDE, DISSOLVED (MG/L AS CL)	36	13.00	8.00	10.23	1.15	10.00	9.90	9.65
SULFATE, DISSOLVED (MG/L AS SO4)	36	260.00	170.00	211.67	24.67	230.00	210.00	190.00
FLUORIDE, DISSOLVED (MG/L AS F)	36	0.70	0.30	0.51	0.09	0.60	0.50	0.43
SILICA, DISSOLVED (MG/L AS SIO2)	36	8.90	2.70	7.27	1.10	8.10	7.60	6.60
ARSENIC, DISSOLVED (UG/L AS AS)	5	2.00	2.00	2.00	0.00	2.00	2.00	2.00
ARSENIC, TOTAL (UG/L AS AS)	19	5.00	1.00	2.84	1.12	4.00	3.00	2.00
BARIUM, DISSOLVED (UG/L AS BA)	18	400.00	0.00	133.33	108.47	200.00	100.00	100.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	5	10.00	0.00	2.00	4.47	5.00	0.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	19	20.00	0.00	1.84	5.06	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	36	540.00	9.00	140.53	75.15	140.00	130.00	120.00
CHROMIUM, DISSOLVED (UG/L AS CR)	5	10.00	0.00	2.00	4.47	5.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	18	10.00	0.00	4.17	4.93	10.00	0.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	18	50.00	0.00	3.17	11.72	1.00	0.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	5	3.00	0.00	1.60	1.14	2.50	2.00	0.50
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	19	14.00	1.00	7.26	3.35	10.00	7.00	6.00
IRON, TOTAL RECOVERABLE (UG/L AS FE)	19	2200.00	370.00	1426.84	551.22	1800.00	1600.00	910.00
IRON, DISSOLVED (UG/L AS FE)	5	400.00	0.00	90.00	173.49	210.00	20.00	5.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	19	50.00	10.00	37.37	12.40	50.00	40.00	30.00
MANGANESE, DISSOLVED (UG/L AS MN)	5	30.00	0.00	10.80	11.54	20.00	10.00	2.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	5	3.00	0.00	1.40	1.34	2.50	2.00	0.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	19	9.00	0.00	3.47	2.57	5.00	3.00	2.00
NICKEL, DISSOLVED (UG/L AS NI)	5	7.00	0.00	2.20	2.77	4.50	1.00	0.50
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	19	50.00	3.00	8.47	10.29	8.00	6.00	4.00
VANADIUM, DISSOLVED (UG/L AS V)	5	1.10	0.00	0.42	0.58	1.05	0.00	0.00
ZINC, DISSOLVED (UG/L AS ZN)	5	20.00	8.00	11.60	4.77	15.00	10.00	9.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	19	40.00	10.00	21.05	8.75	30.00	20.00	10.00
ALUMINUM, DISSOLVED (UG/L AS AL)	5	220.00	0.00	58.00	91.49	125.00	30.00	5.00
LITHIUM, DISSOLVED (UG/L AS LI)	5	50.00	40.00	44.00	5.48	50.00	40.00	40.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	8	50.00	30.00	43.75	9.16	50.00	50.00	32.50
SELENIUM, DISSOLVED (UG/L AS SE)	5	2.00	0.00	1.00	0.71	1.50	1.00	0.50
SELENIUM, TOTAL (UG/L AS SE)	19	1.00	0.00	0.95	0.23	1.00	1.00	1.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	59	548.00	349.00	474.98	34.88	493.00	476.00	451.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	59	0.75	0.47	0.65	0.05	0.67	0.65	0.61
MERCURY, DISSOLVED (UG/L AS HG)	5	1.20	0.00	0.24	0.54	0.60	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	19	0.20	0.00	0.05	0.06	0.10	0.00	0.00
SEDIMENT, SUSPENDED (MG/L)	62	892.00	14.00	137.52	117.33	164.75	124.00	73.50
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	44	80000.00	794.00	12752.59	13651.24	15025.00	9185.00	4470.00

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	43100	12400	21748	9280	42.67	6.8	34530	33900	16500	14750	13100
NOVEMBER	37200	12400	22493	9600	42.68	6.8	36235	34600	15850	14875	12655
DECEMBER	39500	14800	22755	4402	19.35	7.1	30870	25500	22500	20000	15910
JANUARY	35000	19000	27602	4363	15.81	8.6	34300	30500	28000	25750	19000
FEBURARY	34500	28000	31005	1615	5.21	8.8	34440	32000	30500	30000	29000
MARCH	33200	21000	27963	3266	11.68	8.7	32000	31000	29000	25500	22000
APRIL	53300	16000	26367	7357	27.90	8.0	42150	29350	22950	21650	18000
MAY	44100	10900	25767	10781	41.84	8.0	43830	34850	20000	18350	14140
JUNE	43500	20200	31927	8774	27.48	9.6	43400	41850	33250	23075	21065
JULY	42800	24300	32956	7063	21.43	10.3	42630	42300	30300	26900	24500
AUGUST	43500	21500	30162	8737	28.97	9.4	43130	42350	25200	23750	21800
SEPTEMBER	42900	17300	25972	7494	28.85	7.8	40925	31225	23550	19375	17765
ANNUAL	53300	10900	27205	8222	30.22	100.0	42900	32075	26450	21500	14785

06342850 NORWEGIAN CREEK NEAR BELFIELD, ND

LOCATION.--Lat 46°51'12", long 103°08'51", in NW¼NW¼SW¼ sec.14, T.139 N., R.99 W., Stark County, Hydrologic Unit 10130202, on left bank 60 ft (18 m) downstream from bridge on township road, 3.4 mi (5.5 km) southeast of Belfield, and 5.4 mi (8.7 km) upstream from mouth.

DRAINAGE AREA.--39.8 mi^2 (103 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1978 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	6	15.00	0.00	4.67	5.57	8.25	3.50	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	6	53.00	0.06	10.10	21.06	16.25	1.66	0.19
SPECIFIC CONDUCTANCE (MICROMHOS)	6	4250.00	645.00	2327.50	1324.92	3492.50	2310.00	1068.75
OXYGEN, DISSOLVED (MG/L)	6	62.00	9.10	19.27	20.97	24.60	11.25	9.48
OXYGEN, DISSOLVED (PERCENT SATURATION)	6	101.00	67.00	84.33	12.55	97.25	83.00	73.75
PH (UNITS)	6	8.20	7.60	7.98	0.24	8.20	8.05	7.75
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	6	8.10	2.40	4.43	2.05	5.78	4.20	2.63
BICARBONATE (MG/L AS HCO3)	6	509.00	105.00	285.67	159.46	424.25	290.00	119.25
CARBONATE (MG/L AS CO3)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	6	2.70	1.00	1.67	0.59	2.03	1.65	1.15
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	6	1.90	0.90	1.29	0.40	1.68	1.20	0.92
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	6	0.50	0.06	0.23	0.17	0.39	0.18	0.08
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	6	0.58	0.01	0.15	0.23	0.36	0.02	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	6	0.29	0.07	0.16	0.09	0.24	0.14	0.08
PHOSPHORUS, DISSOLVED (MG/L AS P)	6	0.21	0.02	0.07	0.07	0.11	0.06	0.02
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	6	43.00	18.00	30.67	9.42	39.25	31.50	21.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	4	2.00	1.50					
HARDNESS (MG/L AS CACO3)	6	1000.00	130.00	480.00	330.70	752.50	445.00	175.00
HARDNESS, NONCARBONATE (MG/L CACO3)	6	580.00	44.00	247.00	201.76	407.50	210.00	77.00
CALCIUM, DISSOLVED (MG/L AS CA)	6	170.00	24.00	87.50	57.87	132.50	88.50	31.50
MAGNESIUM, DISSOLVED (MG/L AS MG)	6	140.00	16.00	63.00	46.38	102.50	53.50	22.75
SODIUM, DISSOLVED (MG/L AS NA)	6	630.00	86.00	364.33	199.98	532.50	390.00	164.00
SODIUM PERCENT	6	71.00	58.00	63.00	5.02	68.00	61.50	58.75
POTASSIUM, DISSOLVED (MG/L AS K)	6	10.00	5.20	7.87	1.90	10.00	7.70	6.25
CHLORIDE, DISSOLVED (MG/L AS CL)	6	8.50	3.10	5.80	2.19	7.75	6.05	3.48
SULFATE, DISSOLVED (MG/L AS SO4)	6	1800.00	220.00	923.33	556.08	1350.00	920.00	415.00
FLUORIDE, DISSOLVED (MG/L AS F)	6	0.40	0.10	0.25	0.14	0.40	0.25	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	6	7.50	2.10	4.92	1.90	6.15	5.40	3.08
ARSENIC, DISSOLVED (UG/L AS AS)	2	2.00	1.00					
ARSENIC, TOTAL (UG/L AS AS)	2	2.00	2.00					
BARIUM, DISSOLVED (UG/L AS BA)	2	50.00	40.00					
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	2	100.00	100.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	2	1.00	1.00					
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	2	0.00	0.00					
BORON, DISSOLVED (UG/L AS B)	6	1300.00	1.00	575.17	530.09	1067.50	510.00	105.25
CHROMIUM, DISSOLVED (UG/L AS CR)	2	10.00	0.00					
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	10.00	10.00					
COBALT, DISSOLVED (UG/L AS CO)	2	3.00	3.00					
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	2	3.00	2.00					
COPPER, DISSOLVED (UG/L AS CU)	2	10.00	9.00					
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	2	13.00	5.00					
IRON, DISSOLVED (UG/L AS FE)	6	260.00	60.00	145.00	92.68	252.50	115.00	67.50
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	530.00	180.00					
MANGANESE, DISSOLVED (UG/L AS MN)	2	510.00	120.00					
MOLYBDENUM, DISSOLVED (UG/L AS MO)	2	10.00	10.00					
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	2	3.00	3.00					
NICKEL, DISSOLVED (UG/L AS NI)	2	3.00	0.00					
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	8.00	6.00					
VANADIUM, DISSOLVED (UG/L AS V)	2	6.00	1.40					
ZINC, DISSOLVED (UG/L AS ZN)	2	6.00	6.00					
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	50.00	20.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	2	80.00	50.00					
LITHIUM, DISSOLVED (UG/L AS LI)	2	22.00	8.00					
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	2	10.00	4.00					
SELENIUM, DISSOLVED (UG/L AS SE)	2	0.00	0.00					
SELENIUM, TOTAL (UG/L AS SE)	2	0.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	6	3500.00	445.00	1797.50	1116.10	2720.00	1760.00	756.25
SOLIDS, DISSOLVED (TONS PER AC-FT)	6	4.76	0.61	2.45	1.52	3.70	2.40	1.03
MERCURY, DISSOLVED (UG/L AS HG)	2	0.10	0.10					
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	2	0.10	0.10					
SEDIMENT, SUSPENDED (MG/L)	6	62.00	32.00	43.83	11.44	55.25	40.50	34.25
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	6	8.90	0.01	1.60	3.58	2.49	0.16	0.02

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1978 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
NOVEMBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
DECEMBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
JANUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
FEBRUARY	0.08	0.00	0.00	0.01	479.20	0.0	0.02	0.00	0.00	0.00	0.00
MARCH	120.00	0.00	11.63	26.98	232.02	34.4	79.25	5.13	0.40	0.02	0.00
APRIL	146.00	0.00	22.25	37.46	168.32	63.7	119.85	41.25	1.32	0.04	0.02
MAY	2.40	0.00	0.56	0.72	128.68	1.7	1.98	1.05	0.14	0.00	0.00
JUNE	0.26	0.00	0.05	0.08	151.09	0.1	0.22	0.09	0.00	0.00	0.00
JULY	0.06	0.00	0.00	0.01	274.62	0.0	0.04	0.00	0.00	0.00	0.00
AUGUST	0.02	0.00	0.00	0.00	465.51	0.0	0.01	0.00	0.00	0.00	0.00
SEPTEMBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
ANNUAL	146.00	0.00	2.87	14.77	515.61	100.0	5.20	0.01	0.00	0.00	0.00

06342900 SOUTH BRANCH HEART RIVER NEAR SOUTH HEART, ND

LOCATION.--Lat 46°50'24", long 103°01'12", in NE¼NE¼SE¼ sec.22, T.139 N., R.98 W., Stark County, Hydrologic Unit 10130202, on left bank 20 ft (6.1 m) upstream from bridge on county road, 4.1 mi (6.6 km) upstream from mouth and 2.1 mi (3.4 km) southwest of South Heart.

DRAINAGE AREA.--132 mi^2 (342 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1978 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	11	21.00	0.00	9.64	9.05	19.00	8.00	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	11	517.00	0.01	72.54	159.65	68.00	1.60	0.02
SPECIFIC CONDUCTANCE (MICROMHOS)	9	2460.00	448.00	1137.44	723.45	1785.00	892.00	536.00
OXYGEN, DISSOLVED (MG/L)	9	12.40	4.50	9.56	2.96	11.90	11.20	6.75
OXYGEN, DISSOLVED (PERCENT SATURATION)	9	113.00	52.00	86.78	19.50	102.00	85.00	74.00
PH (UNITS)	9	8.80	7.40	8.14	0.44	8.40	8.30	7.75
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	9	5.40	0.50	2.67	1.50	3.70	2.40	1.70
BICARBONATE (MG/L AS HCO3)	9	422.00	84.00	225.22	125.57	356.00	199.00	102.50
CARBONATE (MG/L AS CO3)	9	10.00	0.00	1.89	3.33	3.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	9	3.20	0.14	1.62	1.07	2.85	1.20	0.93
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	9	2.60	0.09	1.25	0.83	1.90	1.10	0.77
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	9	0.38	0.01	0.11	0.11	0.12	0.08	0.06
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	9	1.80	0.00	0.26	0.59	0.27	0.01	0.00
PHOSPHORUS, TOTAL (MG/L AS P)	9	0.66	0.06	0.24	0.18	0.28	0.21	0.11
PHOSPHORUS, DISSOLVED (MG/L AS P)	9	0.52	0.01	0.14	0.15	0.18	0.11	0.05
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	9	27.00	8.40	15.71	5.45	19.00	15.00	12.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	7	1.90	0.60	1.11	0.43	1.30	1.10	0.70
HARDNESS (MG/L AS CACO3)	9	470.00	16.00	154.56	162.15	255.00	91.00	66.00
HARDNESS, NONCARBONATE (MG/L CACO3)	9	120.00	0.00	26.89	46.29	58.50	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	7	94.00	4.70	38.24	36.30	87.00	21.00	17.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	8	56.00	1.00	18.60	20.20	36.75	10.15	6.43
SODIUM, DISSOLVED (MG/L AS NA)	8	380.00	65.00	196.00	126.38	317.50	175.00	68.25
SODIUM PERCENT	9	94.00	58.00	73.11	14.21	89.00	63.00	62.50
POTASSIUM, DISSOLVED (MG/L AS K)	9	12.00	3.50	7.29	2.71	9.10	7.50	4.70
CHLORIDE, DISSOLVED (MG/L AS CL)	9	15.00	3.80	6.59	4.26	9.25	4.70	4.15
SULFATE, DISSOLVED (MG/L AS SO4)	9	910.00	140.00	381.11	282.24	615.00	280.00	160.00
FLUORIDE, DISSOLVED (MG/L AS F)	9	0.80	0.10	0.29	0.22	0.35	0.30	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	8	20.00	1.60	8.84	6.02	13.78	6.70	6.30
ARSENIC, DISSOLVED (UG/L AS AS)	3	17.00	2.00					
ARSENIC, TOTAL (UG/L AS AS)	4	26.00	2.00					
BARIUM, DISSOLVED (UG/L AS BA)	4	100.00	0.00					
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	4	200.00	0.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	4	1.00	0.00					
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	4	0.00	0.00					
BORON, DISSOLVED (UG/L AS B)	9	420.00	110.00	210.00	106.42	295.00	190.00	120.00
CHROMIUM, DISSOLVED (UG/L AS CR)	4	10.00	0.00					
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	4	10.00	0.00					
COBALT, DISSOLVED (UG/L AS CO)	4	3.00	0.00					
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	4	3.00	0.00					
COPPER, DISSOLVED (UG/L AS CU)	4	25.00	10.00					
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	30.00	5.00					
IRON, DISSOLVED (UG/L AS FE)	8	320.00	20.00	125.75	111.64	232.50	75.00	31.50
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	4	250.00	60.00					
MANGANESE, DISSOLVED (UG/L AS MN)	4	230.00	2.00					
MOLYBDENUM, DISSOLVED (UG/L AS MO)	4	10.00	0.00					
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	4	2.00	0.00					
NICKEL, DISSOLVED (UG/L AS NI)	4	4.00	0.00					
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	4	10.00	3.00					
VANADIUM, DISSOLVED (UG/L AS V)	4	28.00	1.90					
ZINC, DISSOLVED (UG/L AS ZN)	4	30.00	3.00					
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	4	30.00	10.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	4	80.00	10.00					
LITHIUM, DISSOLVED (UG/L AS LI)	4	10.00	9.00					
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	4	20.00	7.00					
SELENIUM, DISSOLVED (UG/L AS SE)	4	4.00	0.00					
SELENIUM, TOTAL (UG/L AS SE)	4	3.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	9	1720.00	265.00	776.44	521.81	1250.00	593.00	368.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	9	2.34	0.36	1.06	0.71	1.70	0.81	0.50
MERCURY, DISSOLVED (UG/L AS HG)	4	0.10	0.00					
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	4	0.20	0.00					
SEDIMENT, SUSPENDED (MG/L)	11	18000.00	18.00	1745.73	5392.47	200.00	59.00	28.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	11	624.00	0.00	69.67	185.46	32.00	0.19	0.01

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1978 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
NOVEMBER	0.10	0.00	0.00	0.02	480.47	0.0	0.03	0.00	0.00	0.00	0.00
DECEMBER	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
JANUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
FEBURARY	0.12	0.00	0.00	0.02	531.33	0.0	0.01	0.00	0.00	0.00	0.00
MARCH	270.00	0.00	27.80	60.18	216.51	26.6	194.00	16.25	2.50	0.10	0.00
APRIL	492.00	0.00	74.27	127.42	171.57	68.8	423.75	97.50	5.40	0.54	0.00
MAY	7.00	0.00	1.13	1.69	149.49	1.1	5.30	1.88	0.20	0.00	0.00
JUNE	3.70	0.00	0.24	0.69	284.58	0.2	2.47	0.08	0.00	0.00	0.00
JULY	37.00	0.00	1.19	4.94	413.80	1.1	6.05	0.03	0.00	0.00	0.00
AUGUST	44.00	0.00	1.37	5.75	419.97	1.3	7.15	0.38	0.00	0.00	0.00
SEPTEMBER	30.00	0.00	0.81	3.99	489.29	0.8	2.60	0.16	0.01	0.00	0.00
ANNUAL	492.00	0.00	8.85	45.41	512.89	100.0	21.80	0.12	0.00	0.00	0.00

06342970 NORTH CREEK NEAR SOUTH HEART, ND

LOCATION.--Lat 46°53'44", long 102°59'55", in SE¼NE¼SE¼ sec.35, T.140 N., R.98 W., Stark County, Hydrologic Unit 10130202, on left bank 120 ft (36 m) downstream from culvert on county road, 5.4 mi (8.7 km) upstream from mouth and 2.2 mi (3.5 km) north of South Heart.

DRAINAGE AREA.--40.8 mi^2 (106 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1978 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	11	24.00	0.00	6.73	7.47	11.00	3.00	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	11	74.00	0.01	7.08	22.20	0.88	0.07	0.04
SPECIFIC CONDUCTANCE (MICROMHOS)	10	4740.00	337.00	2194.20	1387.99	3215.00	1745.00	1156.25
OXYGEN, DISSOLVED (MG/L)	10	13.30	7.60	10.42	1.70	11.73	10.15	9.50
OXYGEN, DISSOLVED (PERCENT SATURATION)	10	108.00	72.00	90.20	13.43	103.00	91.00	75.75
PH (UNITS)	10	8.60	7.60	8.24	0.38	8.60	8.35	7.80
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	10	6.70	1.50	3.67	1.76	5.38	3.15	2.23
BICARBONATE (MG/L AS HCO3)	10	1240.00	66.00	461.30	360.63	645.00	328.50	258.00
CARBONATE (MG/L AS CO3)	10	34.00	0.00	7.80	12.81	13.25	1.50	0.00
NITROGEN, TOTAL (MG/L AS N)	10	2.90	1.00	1.66	0.60	2.08	1.55	1.23
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10	2.20	0.95	1.49	0.45	1.95	1.40	1.14
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10	0.47	0.02	0.10	0.14	0.09	0.06	0.03
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	10	0.28	0.00	0.07	0.11	0.14	0.02	0.00
PHOSPHORUS, TOTAL (MG/L AS P)	10	0.38	0.05	0.15	0.11	0.22	0.11	0.07
PHOSPHORUS, DISSOLVED (MG/L AS P)	10	0.30	0.02	0.07	0.08	0.08	0.05	0.02
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	10	42.00	8.90	22.21	10.83	28.75	21.50	12.80
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	10	4.60	0.50	1.77	1.20	2.38	1.55	0.80
HARDNESS (MG/L AS CACO3)	10	710.00	65.00	301.50	199.75	390.00	290.00	115.00
HARDNESS, NONCARBONATE (MG/L CACO3)	10	410.00	0.00	60.40	126.38	73.75	10.50	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	10	120.00	12.00	50.70	32.80	67.50	46.00	20.50
MAGNESIUM, DISSOLVED (MG/L AS MG)	10	100.00	8.60	42.26	29.14	57.50	39.50	15.75
SODIUM, DISSOLVED (MG/L AS NA)	10	1100.00	41.00	429.10	336.70	647.50	310.00	195.00
SODIUM PERCENT	10	95.00	55.00	71.50	13.47	85.25	68.50	60.50
POTASSIUM, DISSOLVED (MG/L AS K)	10	15.00	4.90	10.26	3.59	14.00	11.00	7.05
CHLORIDE, DISSOLVED (MG/L AS CL)	10	9.70	1.80	6.23	2.67	8.85	6.20	4.08
SULFATE, DISSOLVED (MG/L AS SO4)	10	1600.00	100.00	815.00	534.57	1400.00	615.00	390.00
FLUORIDE, DISSOLVED (MG/L AS F)	10	0.60	0.10	0.27	0.16	0.35	0.20	0.18
SILICA, DISSOLVED (MG/L AS SIO2)	10	8.60	0.40	4.19	3.21	7.53	4.10	0.73
ARSENIC, DISSOLVED (UG/L AS AS)	2	3.00	1.00					
ARSENIC, TOTAL (UG/L AS AS)	2	3.00	2.00					
BARIUM, DISSOLVED (UG/L AS BA)	2	50.00	40.00					
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	2	100.00	100.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	2	1.00	1.00					
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	2	0.00	0.00					
BORON, DISSOLVED (UG/L AS B)	10	1600.00	150.00	789.00	545.50	1450.00	530.00	400.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00	0.00					
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	20.00	20.00					
COBALT, DISSOLVED (UG/L AS CO)	2	3.00	3.00					
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	2	3.00	3.00					
COPPER, DISSOLVED (UG/L AS CU)	2	13.00	10.00					
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	2	8.00	7.00					
IRON, DISSOLVED (UG/L AS FE)	10	430.00	10.00	147.00	132.92	197.50	110.00	67.50
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	260.00	200.00					
MANGANESE, DISSOLVED (UG/L AS MN)	2	250.00	70.00					
MOLYBDENUM, DISSOLVED (UG/L AS MO)	2	10.00	10.00					
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	2	2.00	1.00					
NICKEL, DISSOLVED (UG/L AS NI)	2	4.00	0.00					
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	12.00	6.00					
VANADIUM, DISSOLVED (UG/L AS V)	2	6.00	2.30					
ZINC, DISSOLVED (UG/L AS ZN)	2	9.00	8.00					
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	40.00	20.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	2	230.00	40.00					
LITHIUM, DISSOLVED (UG/L AS LI)	2	11.00	6.00					
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	2	10.00	4.00					
SELENIUM, DISSOLVED (UG/L AS SE)	2	0.00	0.00					
SELENIUM, TOTAL (UG/L AS SE)	2	0.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	10	3460.00	235.00	1601.70	1042.89	2482.50	1194.50	829.25
SOLIDS, DISSOLVED (TONS PER AC-FT)	10	4.71	0.32	2.18	1.42	3.37	1.62	1.13
MERCURY, DISSOLVED (UG/L AS HG)	2	0.10	0.00					
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	2	0.10	0.10					
SEDIMENT, SUSPENDED (MG/L)	11	260.00	11.00	81.91	70.97	129.00	62.00	36.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	11	27.00	0.00	2.51	8.12	0.15	0.01	0.01

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1978 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	0.07	0.00	0.03	0.02	67.29	0.1	0.06	0.05	0.04	0.01	0.00
NOVEMBER	0.08	0.01	0.04	0.02	46.37	0.1	0.07	0.06	0.04	0.03	0.01
DECEMBER	0.04	0.00	0.01	0.01	96.60	0.0	0.04	0.02	0.01	0.00	0.00
JANUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
FEBRUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
MARCH	100.00	0.00	9.60	20.89	217.55	27.0	63.50	2.90	0.14	0.01	0.00
APRIL	220.00	0.06	24.05	44.90	186.69	65.5	136.70	30.00	1.76	0.16	0.08
MAY	2.00	0.00	0.25	0.45	178.01	0.7	1.35	0.25	0.05	0.00	0.00
JUNE	53.00	0.00	1.28	7.12	554.58	3.5	4.08	0.04	0.01	0.00	0.00
JULY	29.00	0.00	1.00	4.45	443.49	2.8	6.83	0.05	0.00	0.00	0.00
AUGUST	0.06	0.00	0.00	0.01	390.26	0.0	0.03	0.00	0.00	0.00	0.00
SEPTEMBER	3.80	0.00	0.09	0.51	535.15	0.3	0.19	0.02	0.00	0.00	0.00
ANNUAL	220.00	0.00	3.02	15.86	526.08	100.0	17.80	0.06	0.01	0.00	0.00

06343000 HEART RIVER NEAR SOUTH HEART, ND

LOCATION.--Lat 46°51'56", long 102°56'53", in NE¼SE¼SW¼ sec.8, T.139 N., R.97 W., Stark County, Hydrologic Unit 10130202, on left bank 1.7 mi (2.7 km) downstream from North Creek, 2 mi (3.2 km) east of South Heart, and 5.5 mi (8.8 km) upstream from Edward Arthur Patterson Lake.

DRAINAGE AREA.--311 mi^2 (805 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	41	24.00	0.00	8.82	8.35	17.00	7.50	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	41	745.00	0.04	49.59	147.97	11.65	0.92	0.59
SPECIFIC CONDUCTANCE (MICROMHOS)	36	3900.00	587.00	2480.72	921.43	3232.50	2525.00	1862.50
OXYGEN, DISSOLVED (MG/L)	36	14.20	5.40	8.93	2.02	10.70	8.45	7.62
OXYGEN, DISSOLVED (PERCENT SATURATION)	36	109.00	42.00	82.00	15.90	93.75	83.50	71.25
PH (UNITS)	36	8.80	7.40	8.18	0.32	8.40	8.20	8.00
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	36	71.00	1.10	9.09	12.45	11.28	4.35	3.23
BICARBONATE (MG/L AS HCO3)	36	1160.00	95.00	634.67	312.96	862.50	628.00	413.00
CARBONATE (MG/L AS CO3)	36	29.00	0.00	3.82	7.48	4.35	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	35	14.00	0.61	1.78	2.26	1.70	1.30	0.98
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	35	11.00	0.29	1.41	1.78	1.40	1.10	0.82
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	35	2.10	0.00	0.17	0.36	0.18	0.06	0.02
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	35	1.40	0.00	0.19	0.31	0.31	0.02	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	35	0.73	0.06	0.21	0.14	0.27	0.19	0.10
PHOSPHORUS, DISSOLVED (MG/L AS P)	36	0.35	0.00	0.11	0.08	0.14	0.10	0.04
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	35	44.00	1.00	19.69	9.12	24.00	16.00	14.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	30	10.00	0.40	1.86	1.69	1.93	1.60	1.10
HARDNESS (MG/L AS CACO3)	36	510.00	84.00	283.28	126.79	377.50	295.00	150.00
HARDNESS, NONCARBONATE (MG/L CACO3)	36	150.00	0.00	19.61	41.75	17.25	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	36	110.00	21.00	54.25	24.47	67.75	55.50	30.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	36	66.00	7.70	35.81	16.86	48.00	39.00	19.00
SODIUM, DISSOLVED (MG/L AS NA)	36	900.00	72.00	504.50	219.35	680.00	505.00	352.50
SODIUM PERCENT	36	93.00	57.00	78.14	10.51	87.50	79.00	67.75
POTASSIUM, DISSOLVED (MG/L AS K)	36	24.00	5.60	8.86	3.15	9.25	8.40	7.03
CHLORIDE, DISSOLVED (MG/L AS CL)	36	47.00	3.80	20.91	11.48	31.25	20.50	10.50
SULFATE, DISSOLVED (MG/L AS SO4)	36	1200.00	180.00	796.67	287.53	1000.00	815.00	545.00
FLUORIDE, DISSOLVED (MG/L AS F)	36	1.80	0.10	0.75	0.44	1.08	0.75	0.33
SILICA, DISSOLVED (MG/L AS SIO2)	36	25.00	3.40	10.50	5.20	13.75	9.55	6.38
ARSENIC, DISSOLVED (UG/L AS AS)	10	14.00	1.00	4.30	3.92	5.00	3.00	2.00
ARSENIC, TOTAL (UG/L AS AS)	7	14.00	2.00	5.71	4.19	8.00	4.00	3.00
BARIUM, DISSOLVED (UG/L AS BA)	10	300.00	0.00	98.00	90.77	125.00	80.00	45.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	7	400.00	100.00	200.00	115.47	300.00	200.00	100.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	10	10.00	0.00	1.90	3.07	3.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	7	10.00	0.00	4.29	5.35	10.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	36	1300.00	150.00	744.44	304.97	982.50	780.00	512.50
CHROMIUM, DISSOLVED (UG/L AS CR)	10	10.00	0.00	2.40	4.20	5.50	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	7	10.00	0.00	4.29	5.35	10.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	10	8.00	0.00	2.60	3.13	4.25	2.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	7	4.00	0.00	2.00	1.29	3.00	2.00	1.00
COPPER, DISSOLVED (UG/L AS CU)	12	35.00	2.00	14.17	11.55	25.00	9.00	3.50
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	7	17.00	3.00	10.29	5.22	16.00	10.00	5.00
IRON, DISSOLVED (UG/L AS FE)	36	560.00	10.00	122.86	121.73	137.50	86.50	50.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	7	360.00	90.00	197.14	96.21	290.00	180.00	110.00
MANGANESE, DISSOLVED (UG/L AS MN)	10	270.00	4.00	64.90	75.48	61.25	55.00	23.75
MOLYBDENUM, DISSOLVED (UG/L AS MO)	10	25.00	1.00	9.50	8.86	13.75	7.50	2.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	7	8.00	0.00	2.71	2.75	4.00	2.00	0.00
NICKEL, DISSOLVED (UG/L AS NI)	10	10.00	0.00	3.90	2.64	5.00	4.00	2.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	7	16.00	3.00	8.43	4.50	12.00	8.00	4.00
VANADIUM, DISSOLVED (UG/L AS V)	10	32.00	0.00	6.50	9.48	8.25	3.00	1.50
ZINC, DISSOLVED (UG/L AS ZN)	10	23.00	3.00	10.80	6.25	12.50	10.00	7.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	7	30.00	10.00	24.29	7.87	30.00	30.00	20.00
ALUMINUM, DISSOLVED (UG/L AS AL)	10	50.00	0.00	28.00	16.19	42.50	30.00	17.50
LITHIUM, DISSOLVED (UG/L AS LI)	10	48.00	7.00	28.90	14.17	40.00	30.00	13.50
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	7	60.00	9.00	25.57	19.16	40.00	20.00	10.00
SELENIUM, DISSOLVED (UG/L AS SE)	10	1.00	0.00	0.30	0.48	1.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	7	1.00	0.00	0.29	0.49	1.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	35	2840.00	392.00	1776.89	688.46	2300.00	1840.00	1280.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	36	3.86	0.53	2.40	0.93	3.11	2.46	1.77
MERCURY, DISSOLVED (UG/L AS HG)	10	0.10	0.00	0.03	0.05	0.10	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	7	0.60	0.00	0.13	0.22	0.20	0.00	0.00
SEDIMENT, SUSPENDED (MG/L)	41	1250.00	19.00	153.61	192.76	174.50	117.00	75.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	41	887.00	0.01	38.87	145.45	4.65	0.27	0.11

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	165.00	0.23	9.58	27.26	284.58	2.4	75.10	1.40	0.68	0.56	0.30
NOVEMBER	1.50	0.20	0.77	0.21	27.45	0.2	1.20	0.87	0.70	0.65	0.45
DECEMBER	1.30	0.50	0.78	0.17	21.49	0.2	1.10	0.89	0.76	0.69	0.54
JANUARY	1.00	0.20	0.62	0.20	32.87	0.2	0.96	0.76	0.63	0.43	0.30
FEBURARY	1.20	0.30	0.78	0.19	24.10	0.2	1.00	0.94	0.80	0.68	0.37
MARCH	3820.00	0.80	243.51	639.58	262.65	60.1	1874.99	95.00	3.00	1.25	0.88
APRIL	900.00	0.58	116.23	193.70	166.66	27.7	669.80	141.25	33.50	4.35	0.65
MAY	507.00	0.23	23.66	66.80	282.31	5.8	140.90	13.50	5.10	0.76	0.23
JUNE	101.00	0.00	7.54	16.06	218.76	1.8	41.95	6.45	1.65	0.65	0.08
JULY	29.00	0.00	2.51	4.25	169.54	0.6	9.59	3.70	0.88	0.10	0.03
AUGUST	36.00	0.00	1.29	3.86	298.72	0.3	3.11	1.20	0.54	0.23	0.03
SEPTEMBER	60.00	0.05	2.42	8.03	332.59	0.6	14.25	0.90	0.56	0.21	0.10
ANNUAL	3820.00	0.00	34.39	207.14	602.26	100.0	113.20	2.68	0.82	0.60	0.10

06344600 GREEN RIVER NEAR NEW HRADEC, ND

LOCATION.--Lat 47°01'40", long 103°03'10", on line between secs.13 and 14, T.141 N., R.98 W., Billings County, Hydrologic Unit 10130202, on left bank below county highway bridge, and 8 mi (13 km) west of New Hradec.

DRAINAGE AREA.--152 mi^2 (394 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	84	25.00	0.00	8.69	8.65	17.37	5.75	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	86	1080.00	0.32	70.90	202.14	9.85	2.30	1.20
SPECIFIC CONDUCTANCE (MICROMHOS)	84	1600.00	165.00	959.11	334.92	1160.00	1045.00	771.25
OXYGEN, DISSOLVED (MG/L)	35	14.10	6.00	9.29	2.15	10.80	9.00	7.20
OXYGEN, DISSOLVED (PERCENT SATURATION)	35	116.00	58.00	85.60	14.09	99.00	82.00	75.00
PH (UNITS)	42	8.90	6.50	8.05	0.42	8.40	8.15	7.80
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	42	36.00	0.60	6.24	7.05	6.07	3.85	2.50
BICARBONATE (MG/L AS HCO3)	42	499.00	59.00	340.33	122.73	429.25	382.00	280.00
CARBONATE (MG/L AS CO3)	42	26.00	0.00	2.24	4.72	4.25	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	36	5.40	0.17	1.22	0.85	1.38	1.10	0.80
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	36	5.40	0.12	1.03	0.88	1.20	0.85	0.54
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	36	0.37	0.00	0.07	0.08	0.09	0.05	0.02
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	36	0.64	0.00	0.13	0.18	0.22	0.04	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	36	0.34	0.00	0.09	0.07	0.11	0.06	0.04
PHOSPHORUS, DISSOLVED (MG/L AS P)	36	0.17	0.00	0.03	0.04	0.03	0.02	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	36	23.00	5.40	11.96	4.22	14.00	12.00	8.85
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	32	5.30	0.10	1.19	0.98	1.48	1.05	0.60
HARDNESS (MG/L AS CACO3)	42	340.00	40.00	221.95	76.84	270.00	240.00	207.50
HARDNESS, NONCARBONATE (MG/L CACO3)	42	12.00	0.00	0.50	2.02	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	42	83.00	7.80	44.63	16.16	55.00	46.50	38.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	42	40.00	4.30	26.83	9.36	33.00	30.00	25.50
SODIUM, DISSOLVED (MG/L AS NA)	42	320.00	20.00	147.48	55.49	170.00	160.00	130.00
SODIUM PERCENT	42	74.00	49.00	58.71	6.24	61.00	57.50	54.75
POTASSIUM, DISSOLVED (MG/L AS K)	42	10.00	4.20	6.10	1.34	6.95	5.80	5.18
CHLORIDE, DISSOLVED (MG/L AS CL)	42	13.00	0.50	5.70	2.49	6.75	5.40	4.35
SULFATE, DISSOLVED (MG/L AS SO4)	42	510.00	36.00	251.95	93.44	292.50	255.00	210.00
FLUORIDE, DISSOLVED (MG/L AS F)	42	1.10	0.00	0.34	0.17	0.40	0.40	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	42	16.00	2.20	7.91	3.63	9.40	6.80	5.30
ARSENIC, DISSOLVED (UG/L AS AS)	10	3.00	1.00	1.70	0.67	2.00	2.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	6	3.00	1.00	2.50	0.84	3.00	3.00	1.75
BARIUM, DISSOLVED (UG/L AS BA)	10	200.00	0.00	109.00	60.08	155.00	100.00	82.50
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	6	300.00	0.00	116.67	116.90	225.00	100.00	0.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	10	1.00	0.00	0.50	0.53	1.00	0.50	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	42	640.00	0.00	330.95	126.31	412.50	355.00	295.00
CHROMIUM, DISSOLVED (UG/L AS CR)	10	10.00	0.00	1.00	3.16	0.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	6	10.00	0.00	3.33	5.16	10.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	10	3.00	0.00	1.50	1.58	3.00	1.50	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	6	3.00	0.00	1.50	1.05	2.25	1.50	0.75
COPPER, DISSOLVED (UG/L AS CU)	11	35.00	0.00	9.55	10.50	10.00	7.00	3.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	6	20.00	4.00	10.67	6.06	15.50	10.00	5.50
IRON, DISSOLVED (UG/L AS FE)	42	590.00	10.00	94.02	131.64	100.00	35.00	20.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	300.00	80.00	173.33	83.59	232.50	180.00	87.50
MANGANESE, DISSOLVED (UG/L AS MN)	16	170.00	5.00	51.44	49.77	89.75	30.00	12.50
MOLYBDENUM, DISSOLVED (UG/L AS MO)	10	15.00	0.00	6.30	5.40	10.00	7.50	0.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	6	7.00	1.00	3.67	2.66	6.25	3.50	1.00
NICKEL, DISSOLVED (UG/L AS NI)	10	5.00	0.00	2.40	2.07	4.25	2.50	0.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	6	10.00	6.00	7.67	1.97	10.00	7.00	6.00
VANADIUM, DISSOLVED (UG/L AS V)	10	6.00	0.00	2.46	2.54	6.00	1.00	0.75
ZINC, DISSOLVED (UG/L AS ZN)	10	10.00	3.00	6.70	3.40	10.00	7.50	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	6	290.00	10.00	75.00	108.21	132.50	25.00	17.50
ALUMINUM, DISSOLVED (UG/L AS AL)	10	80.00	0.00	25.00	26.77	42.50	15.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	10	32.00	9.00	22.80	8.64	30.00	24.00	17.25
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	6	30.00	9.00	23.17	8.50	30.00	25.00	17.25
SELENIUM, DISSOLVED (UG/L AS SE)	10	1.00	0.00	0.10	0.32	0.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	40	1120.00	112.00	665.82	228.83	789.50	708.00	611.25
SOLIDS, DISSOLVED (TONS PER AC-FT)	42	1.52	0.15	0.91	0.30	1.07	0.96	0.84
MERCURY, DISSOLVED (UG/L AS HG)	10	0.10	0.00	0.03	0.05	0.10	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	6	0.20	0.00	0.08	0.08	0.13	0.10	0.00
SEDIMENT, SUSPENDED (MG/L)	37	213.00	9.00	47.38	43.10	51.00	33.00	24.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	37	371.00	0.02	11.26	60.87	0.58	0.16	0.06

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	46.00	0.62	4.53	7.95	175.49	1.9	25.10	2.55	1.90	1.30	0.77
NOVEMBER	3.00	0.88	1.67	0.60	35.66	0.7	2.70	2.08	1.50	1.20	1.00
DECEMBER	4.00	0.85	1.94	0.86	44.32	0.8	3.66	2.35	2.10	1.00	0.90
JANUARY	2.40	0.60	1.43	0.52	36.45	0.6	2.00	2.00	1.30	1.00	0.70
FEBRUARY	1.90	1.00	1.31	0.30	23.20	0.5	1.80	1.60	1.20	1.00	1.00
MARCH	1380.00	1.20	117.47	262.45	223.42	48.7	738.70	35.00	5.00	2.50	1.20
APRIL	1040.00	1.40	75.34	173.90	230.83	30.2	487.00	50.75	13.50	3.63	1.76
MAY	337.00	0.83	16.01	47.05	293.97	6.6	85.80	8.95	4.70	1.30	0.88
JUNE	515.00	0.65	15.06	61.59	408.82	6.0	47.35	5.40	2.95	1.68	0.69
JULY	25.00	0.30	2.35	3.28	139.55	1.0	7.09	2.60	1.90	0.60	0.30
AUGUST	16.00	0.25	1.77	3.10	174.88	0.7	13.00	1.55	0.93	0.41	0.25
SEPTEMBER	70.00	0.26	5.80	11.55	199.35	2.3	31.75	5.25	0.95	0.70	0.38
ANNUAL	1380.00	0.25	20.48	100.11	488.71	100.0	50.45	3.68	1.80	1.00	0.50

06345500 HEART RIVER NEAR RICHARDTON, ND

LOCATION.--Lat 46°44'46", long 102°18'27", in NE¼ sec.29, T.138 N., R.92 W., Stark County, Hydrologic Unit 10130202, on right bank 5 ft (2 m) upstream from bridge on State Highway 8, 0.5 mi (0.8 km) downstream from Plum Creek, and 9.5 mi (15.3 km) south of Richardton.

DRAINAGE AREA.--1,240 mi^2 (3,210 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	52	26.00	0.00	8.37	9.37	18.37	3.50	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	54	9770.00	0.33	891.01	1953.27	585.75	36.50	15.50
SPECIFIC CONDUCTANCE (MICROMHOS)	53	2760.00	290.00	1513.02	645.01	1880.00	1630.00	952.50
PH (UNITS)	4	8.40	7.90					
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	4	3.50	1.70					
BICARBONATE (MG/L AS HCO3)	4	401.00	107.00					
CARBONATE (MG/L AS CO3)	4	0.00	0.00					
HARDNESS (MG/L AS CACO3)	4	420.00	120.00					
HARDNESS, NONCARBONATE (MG/L CACO3)	4	120.00	32.00					
CALCIUM, DISSOLVED (MG/L AS CA)	4	83.00	25.00					
MAGNESIUM, DISSOLVED (MG/L AS MG)	4	55.00	14.00					
SODIUM, DISSOLVED (MG/L AS NA)	4	240.00	64.00					
SODIUM PERCENT	4	56.00	41.00					
POTASSIUM, DISSOLVED (MG/L AS K)	4	10.00	5.40					
CHLORIDE, DISSOLVED (MG/L AS CL)	4	18.00	4.70					
SULFATE, DISSOLVED (MG/L AS SO4)	4	600.00	160.00					
FLUORIDE, DISSOLVED (MG/L AS F)	4	0.50	0.10					
SILICA, DISSOLVED (MG/L AS SIO2)	4	9.10	4.90					
BORON, DISSOLVED (UG/L AS B)	4	230.00	70.00					
IRON, DISSOLVED (UG/L AS FE)	4	120.00	10.00					
MANGANESE, DISSOLVED (UG/L AS MN)	4	100.00	20.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	4	1210.00	352.00					
SOLIDS, DISSOLVED (TONS PER AC-FT)	4	1.65	0.48					

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	394.00	6.00	54.08	84.64	156.51	3.2	305.00	49.00	19.00	15.00	6.40
NOVEMBER	42.00	13.00	24.10	8.57	35.56	1.4	40.45	28.00	25.00	15.75	13.55
DECEMBER	28.00	10.00	20.62	5.62	27.27	1.2	28.00	25.50	23.00	14.50	12.70
JANUARY	23.00	2.00	9.82	4.84	49.27	0.6	21.00	13.00	8.50	6.90	2.85
FEBURARY	50.00	3.00	9.92	7.64	77.10	0.5	28.50	9.00	8.20	6.00	4.30
MARCH	9460.00	6.20	865.52	1969.83	227.59	50.9	5925.99	430.00	60.00	18.50	6.89
APRIL	3240.00	13.00	506.93	678.36	133.82	28.9	2257.00	806.50	195.50	60.00	18.10
MAY	958.00	3.40	109.01	173.01	158.72	6.4	579.50	113.00	63.00	12.50	4.10
JUNE	430.00	4.10	61.82	62.82	101.62	3.5	188.35	72.50	45.50	24.00	6.11
JULY	79.00	2.60	24.18	14.74	60.94	1.4	57.50	30.50	21.00	13.00	7.38
AUGUST	34.00	0.10	12.12	7.95	65.62	0.7	26.00	18.00	12.00	5.25	0.17
SEPTEMBER	237.00	2.00	22.92	41.89	182.76	1.3	126.90	20.00	8.50	4.53	2.60
ANNUAL	9460.00	0.10	144.28	657.81	455.93	100.0	572.45	45.00	19.00	10.00	4.10

06348000 HEART RIVER NEAR LARK, ND

LOCATION.--Lat 46°36'37", long 101°22'54", in NW¼NW¼SW¼ sec.9, T.136 N., R.85 W., Grant County, Hydrologic Unit 10130203, on right bank 20 ft (6 m) downstream from county highway bridge, 0.6 mi (1.0 km) downstream from Big Muddy Creek, and 10 mi (16 km) north of Lark.

DRAINAGE AREA.--2,750 mi^2 (7,120 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	43	27.00	0.00	8.98	9.49	18.00	4.00	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	43	10100.00	9.30	921.15	2126.67	513.00	82.00	35.00
SPECIFIC CONDUCTANCE (MICROMHOS)	43	1800.00	420.00	1056.39	327.27	1275.00	1100.00	850.00
PH (UNITS)	5	8.60	7.80	8.24	0.35	8.60	8.10	7.95
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	5	8.60	1.10	3.48	3.11	6.40	2.20	1.20
BICARBONATE (MG/L AS HCO3)	6	338.00	141.00	260.50	84.04	332.00	291.50	163.50
CARBONATE (MG/L AS CO3)	6	7.00	0.00	1.17	2.86	1.75	0.00	0.00
HARDNESS (MG/L AS CACO3)	6	350.00	120.00	273.33	87.56	335.00	310.00	195.00
HARDNESS, NONCARBONATE (MG/L CACO3)	6	99.00	6.00	57.67	34.25	84.00	66.00	24.00
CALCIUM, DISSOLVED (MG/L AS CA)	6	65.00	24.00	51.00	16.12	64.25	56.50	36.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	6	46.00	15.00	35.50	11.52	42.25	41.00	25.50
SODIUM, DISSOLVED (MG/L AS NA)	6	170.00	42.00	127.67	52.97	170.00	150.00	73.50
SODIUM PERCENT	6	53.00	41.00	48.33	4.97	53.00	49.50	43.25
POTASSIUM, DISSOLVED (MG/L AS K)	6	7.40	4.10	6.45	1.20	7.25	6.80	5.82
CHLORIDE, DISSOLVED (MG/L AS CL)	6	12.00	3.40	6.83	3.45	10.50	5.80	3.85
SULFATE, DISSOLVED (MG/L AS SO4)	6	430.00	95.00	325.83	132.53	422.50	385.00	203.75
FLUORIDE, DISSOLVED (MG/L AS F)	6	0.40	0.10	0.22	0.12	0.32	0.20	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	6	11.00	1.10	5.62	3.32	7.55	5.90	2.82
BORON, DISSOLVED (UG/L AS B)	6	270.00	0.00	133.33	89.37	187.50	140.00	67.50
IRON, DISSOLVED (UG/L AS FE)	6	630.00	6.30	257.72	276.96	555.00	175.00	24.07
MANGANESE, DISSOLVED (UG/L AS MN)	6	160.00	0.80	40.13	59.56	62.50	20.00	7.70
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	6	943.00	315.00	714.83	248.75	885.25	833.00	453.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	6	1.28	0.43	0.97	0.34	1.20	1.13	0.62

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	613.00	14.00	107.85	141.97	131.64	3.2	446.90	197.50	33.00	19.50	16.00
NOVEMBER	125.00	11.00	40.20	28.52	70.94	1.2	122.45	50.00	32.00	25.00	11.55
DECEMBER	51.00	13.00	34.87	10.33	29.63	1.0	46.00	42.00	38.00	28.50	13.70
JANUARY	48.00	9.00	27.99	13.54	48.36	0.8	48.00	40.00	30.00	12.00	9.50
FEBURARY	121.00	9.50	30.75	28.02	91.13	0.8	108.70	35.50	20.00	11.00	10.00
MARCH	12000.00	10.00	1019.11	2372.07	232.76	30.5	7406.00	425.00	127.00	90.00	10.00
APRIL	5700.00	13.00	1457.61	1522.16	104.43	42.3	4570.50	2607.50	901.50	99.00	14.10
MAY	834.00	26.00	263.43	217.51	82.57	7.9	730.50	423.00	210.00	65.00	31.10
JUNE	900.00	17.00	156.81	158.91	101.34	4.5	516.60	160.50	124.00	66.00	35.10
JULY	273.00	34.00	96.76	50.83	52.53	2.9	214.80	120.00	84.00	58.00	39.70
AUGUST	212.00	39.00	87.77	27.48	31.31	2.6	128.30	102.00	83.00	69.50	56.70
SEPTEMBER	484.00	18.00	71.30	67.31	94.40	2.1	162.90	96.00	51.00	28.25	20.00
ANNUAL	12000.00	9.00	283.08	929.17	328.23	100.0	1083.00	122.75	57.00	32.00	11.00

06348500 SWEETBRIAR CREEK NEAR JUDSON, ND

LOCATION.--Lat 46°51'06", long 101°15'10", in SW¼ sec.14, T.139 N., R.84 W., Morton County, Hydrologic Unit 10130203, on right bank 80 ft (24 km) downstream from bridge on county highway, 2 mi (3 km) northeast of Judson, and 16 mi (26 km) upstream from mouth.

DRAINAGE AREA.--157 mi^2 (407 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	31	24.00	0.00	7.87	8.96	17.50	5.00	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	31	1070.00	0.38	124.21	288.22	119.00	1.80	0.69
SPECIFIC CONDUCTANCE (MICROMHOS)	31	1400.00	145.00	762.10	329.05	1000.00	850.00	470.00
PH (UNITS)	3	8.40	8.00					
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	3	4.10	2.40					
BICARBONATE (MG/L AS HCO3)	4	507.00	56.00					
CARBONATE (MG/L AS CO3)	4	0.00	0.00					
HARDNESS (MG/L AS CACO3)	4	220.00	38.00					
HARDNESS, NONCARBONATE (MG/L CACO3)	4	0.00	0.00					
CALCIUM, DISSOLVED (MG/L AS CA)	4	43.00	10.00					
MAGNESIUM, DISSOLVED (MG/L AS MG)	4	27.00	3.20					
SODIUM, DISSOLVED (MG/L AS NA)	4	210.00	13.00					
SODIUM PERCENT	4	67.00	39.00					
POTASSIUM, DISSOLVED (MG/L AS K)	4	7.10	4.40					
CHLORIDE, DISSOLVED (MG/L AS CL)	4	6.00	2.90					
SULFATE, DISSOLVED (MG/L AS SO4)	4	270.00	22.00					
FLUORIDE, DISSOLVED (MG/L AS F)	4	0.60	0.10					
SILICA, DISSOLVED (MG/L AS SIO2)	4	8.60	4.00					
BORON, DISSOLVED (UG/L AS B)	4	320.00	140.00					
IRON, DISSOLVED (UG/L AS FE)	4	1100.00	140.00					
MANGANESE, DISSOLVED (UG/L AS MN)	4	210.00	30.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	4	865.00	121.00					
SOLIDS, DISSOLVED (TONS PER AC-FT)	4	1.18	0.16					

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	57.00	0.53	5.41	9.88	182.75	1.9	29.65	5.43	1.35	1.00	0.68
NOVEMBER	1.80	0.47	0.91	0.43	47.64	0.3	1.80	1.10	0.71	0.60	0.48
DECEMBER	4.00	0.40	1.16	0.93	80.04	0.4	3.25	1.70	0.81	0.40	0.40
JANUARY	1.60	0.40	0.73	0.40	55.10	0.3	1.57	1.20	0.50	0.40	0.40
FEBURARY	0.70	0.40	0.48	0.10	21.43	0.2	0.70	0.60	0.40	0.40	0.40
MARCH	2140.00	0.40	159.03	409.46	257.47	55.3	1324.50	8.00	1.40	0.59	0.40
APRIL	2060.00	1.10	113.30	291.81	257.56	38.1	673.95	117.75	23.00	9.93	1.11
MAY	10.00	1.40	5.39	2.14	39.77	1.9	9.89	6.70	5.35	3.70	1.72
JUNE	7.20	0.52	2.21	1.59	71.77	0.7	3.99	3.60	1.30	0.74	0.57
JULY	1.40	0.38	0.72	0.25	35.03	0.2	1.18	0.89	0.73	0.49	0.38
AUGUST	3.40	0.27	1.14	0.76	67.14	0.4	3.18	1.20	1.00	0.78	0.31
SEPTEMBER	2.30	0.46	0.92	0.29	31.65	0.3	1.40	1.00	0.93	0.71	0.53
ANNUAL	2140.00	0.27	24.42	153.45	628.27	100.0	42.35	3.23	1.00	0.60	0.40

06349000 HEART RIVER NEAR MANDAN, ND

LOCATION.--Lat 46°50'02", long 100°58'27", in NW¼NE¼ sec.25, T.139 N., R.82 W., Morton County, Hydrologic Unit 10130203, on left bank near downstream wingwall of bridge on county highway, 3 mi (5 km) west of Mandan, and 4 mi (6 km) downstream from Sweetbriar Creek.

DRAINAGE AREA.--3,310 mi² (8,570 km²), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	45	28.00	0.00	9.34	9.80	19.50	6.00	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	46	8189.98	8.10	769.90	1793.72	263.50	80.50	39.57
SPECIFIC CONDUCTANCE (MICROMHOS)	46	1890.00	440.00	1269.52	401.90	1602.50	1337.50	1030.00
OXYGEN, DISSOLVED (MG/L)	33	13.30	4.30	9.15	2.25	10.85	9.00	7.95
OXYGEN, DISSOLVED (PERCENT SATURATION)	16	105.00	31.00	81.50	24.79	96.75	92.50	65.25
PH (UNITS)	34	8.60	7.70	8.24	0.29	8.50	8.35	8.00
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	4	18.00	2.20					
BICARBONATE (MG/L AS HCO3)	4	550.00	150.00					
CARBONATE (MG/L AS CO3)	4	0.00	0.00					
NITROGEN, TOTAL (MG/L AS N)	32	3.00	0.46	1.13	0.68	1.30	0.87	0.70
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	32	2.00	0.28	0.85	0.47	1.10	0.71	0.49
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	33	0.39	0.00	0.06	0.08	0.08	0.03	0.01
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	33	0.81	0.00	0.21	0.24	0.39	0.13	0.02
PHOSPHORUS, TOTAL (MG/L AS P)	33	0.84	0.00	0.11	0.18	0.12	0.04	0.02
PHOSPHORUS, DISSOLVED (MG/L AS P)	33	0.10	0.00	0.02	0.02	0.02	0.01	0.00
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	24	24.00	3.70	9.70	4.27	10.73	8.65	7.15
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	19	48.00	0.10	3.95	11.05	1.30	0.90	0.30
HARDNESS (MG/L AS CACO3)	33	500.00	140.00	334.55	97.34	430.00	330.00	285.00
HARDNESS, NONCARBONATE (MG/L CACO3)	33	160.00	0.00	27.33	38.84	50.00	2.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	33	100.00	31.00	66.12	19.27	85.50	65.00	55.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	33	60.00	15.00	40.85	12.19	52.00	40.00	34.50
SODIUM, DISSOLVED (MG/L AS NA)	33	300.00	56.00	190.76	61.85	230.00	190.00	150.00
SODIUM PERCENT	33	72.00	44.00	54.94	6.41	59.50	55.00	50.50
POTASSIUM, DISSOLVED (MG/L AS K)	33	13.00	6.40	9.15	1.28	9.70	8.90	8.35
CHLORIDE, DISSOLVED (MG/L AS CL)	33	20.00	3.00	10.61	4.66	14.00	10.00	7.25
SULFATE, DISSOLVED (MG/L AS SO4)	33	560.00	140.00	403.33	115.61	515.00	420.00	325.00
FLUORIDE, DISSOLVED (MG/L AS F)	33	0.70	0.10	0.34	0.11	0.40	0.30	0.30
SILICA, DISSOLVED (MG/L AS SIO2)	33	11.00	2.80	6.49	1.91	7.75	6.10	5.10
ARSENIC, DISSOLVED (UG/L AS AS)	11	4.00	1.00	1.55	0.93	2.00	1.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	22	10.00	1.00	2.32	2.25	2.25	1.50	1.00
BARIUM, DISSOLVED (UG/L AS BA)	11	200.00	0.00	79.09	55.04	100.00	90.00	40.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	23	600.00	0.00	165.22	143.36	200.00	100.00	100.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	22	10.00	0.00	1.82	3.95	0.00	0.00	0.00
CHROMIUM, DISSOLVED (UG/L AS CR)	10	10.00	0.00	1.00	3.16	0.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	20	30.00	0.00	7.00	10.81	10.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	10	3.00	0.00	1.80	1.40	3.00	2.50	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	22	12.00	0.00	2.09	3.38	2.00	1.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	10	35.00	0.00	5.10	10.55	3.00	2.00	1.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	22	43.00	1.00	10.77	11.43	13.00	6.50	4.00
IRON, TOTAL RECOVERABLE (UG/L AS FE)	22	34000.00	180.00	4269.55	9305.31	1450.00	595.00	420.00
IRON, DISSOLVED (UG/L AS FE)	10	140.00	10.00	46.00	51.90	92.50	15.00	10.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	22	1000.00	8.00	159.00	269.04	85.00	60.00	40.00
MANGANESE, DISSOLVED (UG/L AS MN)	10	20.00	0.00	7.20	6.07	10.00	7.50	2.25
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	22	8.00	0.00	3.68	2.68	6.25	4.00	1.00
NICKEL, DISSOLVED (UG/L AS NI)	4	6.00	3.00					
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	22	40.00	0.00	12.27	10.59	16.50	8.00	6.00
VANADIUM, TOTAL (UG/L AS V)	1	0.20	0.20					
ZINC, DISSOLVED (UG/L AS ZN)	11	10.00	0.00	6.64	3.85	10.00	9.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	23	260.00	0.00	53.04	57.00	70.00	40.00	20.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	22	550.00	20.00	69.55	108.21	60.00	50.00	37.50
SELENIUM, DISSOLVED (UG/L AS SE)	11	1.00	0.00	0.36	0.50	1.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	22	2.00	0.00	0.55	0.60	1.00	0.50	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	33	1310.00	335.00	926.36	262.23	1140.00	935.00	766.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	33	1.78	0.46	1.26	0.36	1.55	1.27	1.04
MERCURY, DISSOLVED (UG/L AS HG)	11	0.70	0.00	0.08	0.21	0.10	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	22	1.00	0.00	0.18	0.29	0.20	0.10	0.00
SEDIMENT, SUSPENDED (MG/L)	33	2690.00	4.00	236.06	650.69	53.50	24.00	12.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	33	44200.00	0.15	2992.84	10415.21	18.00	4.80	1.25

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	660.00	38.00	127.70	138.09	108.14	2.9	466.60	193.50	53.00	45.50	39.00
NOVEMBER	120.00	19.00	48.98	19.51	39.83	1.1	100.45	49.00	45.00	39.00	25.10
DECEMBER	49.00	27.00	40.13	6.28	15.65	0.9	49.00	48.00	39.00	36.50	28.70
JANUARY	40.00	10.00	25.78	9.36	36.32	0.6	38.00	35.00	28.00	16.00	11.70
FEBUARY	32.00	8.00	16.53	9.27	56.06	0.3	30.00	29.00	11.00	9.00	8.00
MARCH	16300.00	8.00	1257.77	3386.35	269.23	28.4	11999.99	375.00	135.00	24.50	8.00
APRIL	7420.00	34.00	2051.96	1963.48	95.69	44.8	5560.00	3770.00	1500.00	177.50	50.30
MAY	1340.00	26.00	423.83	368.33	86.91	9.6	1166.00	677.50	385.00	44.00	28.00
JUNE	1510.00	29.00	208.84	231.91	111.04	4.6	621.50	236.00	151.50	70.75	39.55
JULY	486.00	14.00	108.11	86.90	80.38	2.4	299.40	135.00	96.00	35.00	18.40
AUGUST	359.00	14.00	92.75	41.53	44.77	2.1	148.00	109.00	88.00	75.00	19.50
SEPTEMBER	720.00	36.00	110.77	108.62	98.07	2.4	321.20	116.00	94.50	54.75	36.00
ANNUAL	16300.00	8.00	376.21	1287.68	342.27	100.0	1521.99	150.00	55.00	36.00	10.00

06349500 APPLE CREEK NEAR MENOKEN, ND

LOCATION.--Lat 46°47'40", long 100°39'25", in NW¼NE¼ sec.9, T.138 N., R.79 W., Burleigh County, Hydrologic Unit 10130103, on left bank 75 ft (23 m) downstream from bridge on county highway, 4 mi (6 km) upstream from Hay Creek, 6.3 mi (10.1 km) west of Menoken, and 6.4 mi (10.3 km) east of Bismarck.

DRAINAGE AREA.--1,680 mi^2 (4,350 km^2), approximately, of which about 500 mi^2 (1,300 km^2) is probably noncontributing.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	52	25.00	0.00	7.92	8.63	14.38	4.00	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	51	3700.00	0.07	257.92	662.82	72.00	2.00	1.04
SPECIFIC CONDUCTANCE (MICROMHOS)	52	2100.00	100.00	1015.00	578.36	1452.50	1065.00	548.75
OXYGEN, DISSOLVED (MG/L)	22	10.70	3.80	7.73	1.91	9.35	7.65	6.15
OXYGEN, DISSOLVED (PERCENT SATURATION)	9	81.00	52.00	66.44	11.10	74.00	70.00	52.50
PH (UNITS)	36	8.80	7.40	8.09	0.37	8.40	8.10	7.80
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	12	45.00	1.30	11.64	13.35	17.00	4.95	3.37
BICARBONATE (MG/L AS HCO3)	13	735.00	122.00	455.00	185.85	607.50	427.00	302.00
CARBONATE (MG/L AS CO3)	13	18.00	0.00	1.62	4.99	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	31	3.30	1.00	1.68	0.48	1.90	1.60	1.30
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	31	1.40	0.00	0.17	0.33	0.24	0.03	0.00
PHOSPHORUS, TOTAL (MG/L AS P)	31	0.97	0.16	0.43	0.22	0.55	0.34	0.27
PHOSPHORUS, DISSOLVED (MG/L AS P)	31	0.90	0.02	0.29	0.19	0.35	0.23	0.19
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	8	27.00	9.50	16.69	5.22	19.50	15.50	13.50
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	7	2.50	0.60	1.89	0.66	2.30	2.20	1.40
HARDNESS (MG/L AS CACO3)	37	490.00	45.00	251.70	104.27	305.00	250.00	190.00
HARDNESS, NONCARBONATE (MG/L CACO3)	37	6.00	0.00	0.19	1.00	0.00	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	37	100.00	11.00	48.97	19.28	54.00	47.00	39.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	37	62.00	4.30	31.40	14.43	39.50	30.00	22.50
SODIUM, DISSOLVED (MG/L AS NA)	37	350.00	8.80	209.75	87.61	275.00	240.00	145.00
SODIUM PERCENT	36	82.00	27.00	63.33	9.37	67.00	63.50	60.00
POTASSIUM, DISSOLVED (MG/L AS K)	36	13.00	4.80	8.27	1.88	9.20	7.95	7.03
CHLORIDE, DISSOLVED (MG/L AS CL)	37	55.00	1.00	28.57	14.98	42.50	28.00	17.50
SULFATE, DISSOLVED (MG/L AS SO4)	37	420.00	19.00	232.43	101.04	320.00	230.00	155.00
FLUORIDE, DISSOLVED (MG/L AS F)	37	0.70	0.00	0.35	0.17	0.50	0.40	0.25
SILICA, DISSOLVED (MG/L AS SIO2)	37	30.00	3.90	12.30	6.80	16.00	9.90	7.20
ARSENIC, DISSOLVED (UG/L AS AS)	8	12.00	1.00	5.25	3.28	6.75	4.50	3.25
BARIUM, DISSOLVED (UG/L AS BA)	7	100.00	0.00	45.71	51.27	100.00	20.00	0.00
BORON, DISSOLVED (UG/L AS B)	37	1300.00	50.00	766.22	349.49	1100.00	800.00	480.00
CHROMIUM, DISSOLVED (UG/L AS CR)	8	10.00	0.00	1.25	3.54	0.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	7	6.00	0.00	2.14	2.34	4.00	2.00	0.00
COPPER, DISSOLVED (UG/L AS CU)	8	2.00	1.00	1.38	0.52	2.00	1.00	1.00
IRON, DISSOLVED (UG/L AS FE)	37	830.00	10.00	153.51	210.23	225.00	50.00	20.00
MANGANESE, DISSOLVED (UG/L AS MN)	37	2600.00	0.00	327.57	589.37	185.00	80.00	40.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	8	10.00	0.00	4.13	3.98	8.75	3.00	1.00
NICKEL, DISSOLVED (UG/L AS NI)	7	8.00	0.00	4.00	3.11	7.00	4.00	0.00
VANADIUM, DISSOLVED (UG/L AS V)	5	2.10	0.00	0.56	0.91	1.40	0.00	0.00
ZINC, DISSOLVED (UG/L AS ZN)	8	20.00	0.00	7.38	6.61	10.00	7.50	1.00
ALUMINUM, DISSOLVED (UG/L AS AL)	8	70.00	0.00	15.63	24.70	27.50	2.50	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	7	160.00	5.00	83.57	57.93	140.00	80.00	20.00
SELENIUM, DISSOLVED (UG/L AS SE)	8	1.00	0.00	0.13	0.35	0.00	0.00	0.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	36	1410.00	93.00	847.67	332.73	1057.50	892.00	632.50
SOLIDS, DISSOLVED (TONS PER AC-FT)	37	1.92	0.13	1.16	0.45	1.44	1.22	0.87
MERCURY, DISSOLVED (UG/L AS HG)	8	0.10	0.00	0.03	0.05	0.08	0.00	0.00
SEDIMENT, SUSPENDED (MG/L)	10	34.00	3.00	18.20	11.15	30.00	15.00	8.25
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	9	1.00	0.01	0.15	0.32	0.10	0.03	0.01

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	18.00	0.28	4.91	5.98	121.82	0.9	17.00	9.15	1.10	0.93	0.58
NOVEMBER	6.90	0.20	2.14	1.57	73.32	0.4	5.54	3.33	1.40	1.08	0.51
DECEMBER	2.20	0.96	1.41	0.25	17.87	0.3	2.03	1.50	1.40	1.20	1.10
JANUARY	1.60	0.97	1.21	0.14	11.19	0.2	1.50	1.30	1.20	1.10	1.00
FEBURARY	1.80	0.60	1.02	0.28	27.36	0.2	1.47	1.20	1.10	0.80	0.60
MARCH	1600.00	0.60	101.01	306.51	303.45	19.5	1025.80	16.00	2.00	1.20	0.60
APRIL	4700.00	1.60	321.65	699.91	217.60	60.2	1311.00	442.75	45.00	3.00	1.70
MAY	439.00	0.51	75.43	93.59	124.08	14.6	307.40	89.00	50.00	1.30	0.54
JUNE	39.00	0.09	12.82	11.56	90.19	2.4	34.35	21.00	13.00	0.38	0.13
JULY	12.00	0.05	4.08	3.41	83.54	0.8	10.30	6.70	4.10	0.20	0.08
AUGUST	12.00	0.08	1.54	1.69	109.36	0.3	4.40	2.00	1.40	0.36	0.10
SEPTEMBER	11.00	0.06	1.20	1.87	155.07	0.2	5.90	1.13	0.60	0.31	0.09
ANNUAL	4700.00	0.05	43.91	237.49	540.90	100.0	157.20	6.18	1.40	0.99	0.18

06349900 CANNONBALL RIVER AT NEW ENGLAND, ND

LOCATION.--Lat 46°32'35", long 102°53'16", in SW¼SE¼SE¼ sec.32 T.136 N., R.97 W., Hettinger County, Hydrologic Unit 10130204, on left bank 70 ft (21 m) upstream from bridge on county road, 1.0 mi (1.6 km) west of New England, 0.3 mi (0.5 km) above Coon Creek and 17 mi (27 km) below confluence of North Fork Cannonball River and Philbrick Creek.

DRAINAGE AREA.--285 mi^2 (738 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1978 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	28	24.00	0.00	8.66	8.92	18.00	3.25	0.13
STREAMFLOW, INSTANTANEOUS (CFS)	28	1090.00	0.01	51.52	208.02	1.58	0.13	0.06
SPECIFIC CONDUCTANCE (MICROMHOS)	24	4240.00	405.00	2601.46	891.16	2937.50	2490.00	2310.00
OXYGEN, DISSOLVED (MG/L)	23	14.80	6.40	10.06	2.38	12.00	10.00	7.50
OXYGEN, DISSOLVED (PERCENT SATURATION)	23	185.00	48.00	95.13	30.40	106.00	97.00	77.00
PH (UNITS)	24	8.60	7.60	8.15	0.29	8.40	8.20	7.93
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	24	26.00	1.00	8.01	7.58	11.63	4.70	3.05
BICARBONATE (MG/L AS HCO3)	24	824.00	81.00	542.33	180.67	657.50	548.00	497.00
CARBONATE (MG/L AS CO3)	24	24.00	0.00	3.68	6.91	5.50	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	24	2.90	0.65	1.35	0.70	1.50	1.00	0.91
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	24	2.40	0.61	1.05	0.42	1.35	0.91	0.77
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	24	0.28	0.00	0.09	0.08	0.18	0.06	0.02
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	24	2.00	0.00	0.21	0.45	0.14	0.03	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	24	0.42	0.00	0.07	0.09	0.08	0.04	0.02
PHOSPHORUS, DISSOLVED (MG/L AS P)	24	0.16	0.00	0.03	0.03	0.03	0.02	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	23	66.00	7.50	19.06	11.88	23.00	16.00	13.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	19	9.70	0.20	1.38	2.13	1.50	0.60	0.50
HARDNESS (MG/L AS CACO3)	24	1200.00	92.00	574.25	241.68	682.50	560.00	412.50
HARDNESS, NONCARBONATE (MG/L CACO3)	24	520.00	0.00	142.71	148.54	250.00	105.00	9.50
CALCIUM, DISSOLVED (MG/L AS CA)	24	170.00	17.00	92.63	34.40	110.00	93.50	66.75
MAGNESIUM, DISSOLVED (MG/L AS MG)	24	180.00	12.00	82.83	37.76	100.00	76.50	58.50
SODIUM, DISSOLVED (MG/L AS NA)	24	810.00	46.00	444.71	174.45	495.00	430.00	365.00
SODIUM PERCENT	24	85.00	41.00	64.33	9.64	67.75	63.50	59.25
POTASSIUM, DISSOLVED (MG/L AS K)	24	15.00	5.40	10.39	2.14	11.00	10.00	9.43
CHLORIDE, DISSOLVED (MG/L AS CL)	24	33.00	2.00	9.80	6.52	9.95	8.20	6.38
SULFATE, DISSOLVED (MG/L AS SO4)	24	2200.00	120.00	1038.75	460.55	1250.00	980.00	802.50
FLUORIDE, DISSOLVED (MG/L AS F)	24	0.70	0.10	0.41	0.14	0.50	0.40	0.30
SILICA, DISSOLVED (MG/L AS SIO2)	24	10.00	2.90	6.77	2.03	8.35	6.70	5.20
ARSENIC, DISSOLVED (UG/L AS AS)	6	3.00	1.00	1.33	0.82	1.50	1.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	4	3.00	1.00					
BARIUM, DISSOLVED (UG/L AS BA)	6	100.00	50.00	75.00	27.39	100.00	75.00	50.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	4	200.00	0.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	6	10.00	0.00	3.17	3.66	4.75	3.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	4	0.00	0.00					
BORON, DISSOLVED (UG/L AS B)	24	930.00	130.00	586.67	174.30	680.00	630.00	547.50
CHROMIUM, DISSOLVED (UG/L AS CR)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	4	20.00	0.00					
COBALT, DISSOLVED (UG/L AS CO)	6	8.00	0.00	4.00	4.38	8.00	4.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	4	2.00	0.00					
COPPER, DISSOLVED (UG/L AS CU)	8	35.00	0.00	13.88	14.49	25.00	12.50	0.25
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	11.00	2.00					
IRON, DISSOLVED (UG/L AS FE)	24	440.00	0.00	85.83	130.91	66.75	35.00	10.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	4	510.00	160.00					
MANGANESE, DISSOLVED (UG/L AS MN)	6	530.00	110.00	273.33	164.03	447.50	205.00	155.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	6	28.00	0.00	13.50	13.78	25.75	14.00	0.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	4	6.00	1.00					
NICKEL, DISSOLVED (UG/L AS NI)	6	6.00	0.00	3.50	2.07	5.25	3.50	2.25
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	4	13.00	3.00					
VANADIUM, DISSOLVED (UG/L AS V)	6	8.00	1.00	4.53	3.80	8.00	4.60	1.00
ZINC, DISSOLVED (UG/L AS ZN)	6	30.00	8.00	12.33	8.71	15.00	9.00	8.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	4	50.00	10.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	6	80.00	0.00	25.00	28.81	42.50	15.00	7.50
LITHIUM, DISSOLVED (UG/L AS LI)	6	70.00	20.00	51.17	17.33	62.50	55.00	40.25
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	4	60.00	20.00					
SELENIUM, DISSOLVED (UG/L AS SE)	6	2.00	0.00	0.67	0.82	1.25	0.50	0.00
SELENIUM, TOTAL (UG/L AS SE)	4	1.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	23	4070.00	281.00	1988.17	819.89	2250.00	1850.00	1700.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	24	5.54	0.38	2.64	1.13	3.04	2.49	2.19
MERCURY, DISSOLVED (UG/L AS HG)	6	0.10	0.00	0.05	0.05	0.10	0.05	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	4	0.20	0.00					
SEDIMENT, SUSPENDED (MG/L)	27	700.00	19.00	89.52	130.00	90.00	50.00	36.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	27	2060.00	0.00	81.29	396.06	0.23	0.03	0.01

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1978 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	0.25	0.03	0.10	0.05	47.52	0.1	0.20	0.13	0.09	0.06	0.05
NOVEMBER	0.60	0.02	0.26	0.23	88.54	0.1	0.60	0.51	0.13	0.06	0.02
DECEMBER	1.80	0.02	0.46	0.48	104.93	0.3	1.48	0.60	0.34	0.06	0.03
JANUARY	0.90	0.02	0.35	0.30	85.90	0.2	0.80	0.60	0.30	0.06	0.03
FEBURARY	0.75	0.04	0.30	0.25	83.85	0.2	0.70	0.50	0.08	0.06	0.04
MARCH	213.00	0.03	23.40	43.79	187.14	14.1	131.25	13.25	4.35	0.22	0.03
APRIL	1300.00	0.41	138.97	273.00	196.44	80.9	786.10	152.00	13.65	2.30	0.45
MAY	19.00	0.10	5.27	6.19	117.29	3.2	16.70	11.00	1.72	0.12	0.11
JUNE	10.00	0.09	1.32	1.97	148.65	0.8	6.29	1.90	0.35	0.13	0.10
JULY	1.20	0.05	0.19	0.20	106.60	0.1	0.65	0.17	0.12	0.10	0.06
AUGUST	0.54	0.03	0.10	0.07	68.96	0.1	0.17	0.12	0.11	0.06	0.03
SEPTEMBER	0.06	0.01	0.04	0.02	57.82	0.0	0.06	0.06	0.05	0.01	0.01
ANNUAL	1300.00	0.01	14.10	87.32	619.40	100.0	38.00	0.70	0.13	0.06	0.03

06349930 COAL BANK CREEK NEAR HAVELOCK, ND

LOCATION.--Lat 46°27'50", long 102°44'20", in NW¼SW¼ sec.34, T.135 N., R.96 W., Hettinger County, Hydrologic Unit 10130204, 1 mi (1.6 km) south of Havelock, and at county highway bridge.

DRAINAGE AREA.--70.0 mi^2 (181.3 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	44	25.00	0.00	8.30	8.33	15.75	6.25	0.63
STREAMFLOW, INSTANTANEOUS (CFS)	44	700.00	0.02	58.06	172.69	3.35	0.14	0.10
SPECIFIC CONDUCTANCE (MICROMHOS)	43	4800.00	230.00	1777.56	862.13	2300.00	1910.00	1240.00
OXYGEN, DISSOLVED (MG/L)	33	16.00	1.40	9.07	4.20	12.60	9.80	5.60
OXYGEN, DISSOLVED (PERCENT SATURATION)	21	208.00	0.00	96.24	55.34	132.50	95.00	67.00
PH (UNITS)	34	10.10	7.00	8.00	0.67	8.33	8.00	7.48
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	22	83.00	0.00	17.75	22.69	34.00	6.10	1.80
BICARBONATE (MG/L AS HCO3)	22	761.00	92.00	396.77	176.81	530.00	391.50	278.25
CARBONATE (MG/L AS CO3)	21	103.00	0.00	7.14	23.09	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	34	4.40	0.41	1.23	0.89	1.43	0.92	0.71
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10	1.30	0.49	0.89	0.31	1.20	0.97	0.54
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10	0.11	0.01	0.04	0.03	0.06	0.04	0.02
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	34	2.90	0.00	0.28	0.58	0.18	0.04	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	34	0.38	0.01	0.06	0.07	0.06	0.04	0.03
PHOSPHORUS, DISSOLVED (MG/L AS P)	34	0.09	0.00	0.03	0.02	0.03	0.02	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	33	30.00	9.00	16.12	5.08	19.50	15.00	12.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	28	5.00	0.20	0.91	1.13	0.78	0.60	0.40
HARDNESS (MG/L AS CACO3)	34	990.00	160.00	611.76	197.58	780.00	615.00	480.00
HARDNESS, NONCARBONATE (MG/L CACO3)	34	650.00	50.00	281.56	144.09	350.00	270.00	167.50
CALCIUM, DISSOLVED (MG/L AS CA)	34	210.00	25.00	117.68	45.62	160.00	120.00	88.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	34	130.00	18.00	77.06	24.21	94.00	75.00	63.00
SODIUM, DISSOLVED (MG/L AS NA)	34	390.00	52.00	253.32	72.16	310.00	265.00	220.00
SODIUM PERCENT	34	72.00	38.00	47.44	7.59	50.25	45.50	42.00
POTASSIUM, DISSOLVED (MG/L AS K)	34	14.00	4.40	8.90	2.13	10.00	9.10	7.53
CHLORIDE, DISSOLVED (MG/L AS CL)	34	89.00	3.20	12.75	14.38	12.00	10.00	8.13
SULFATE, DISSOLVED (MG/L AS SO4)	34	1300.00	200.00	794.41	246.26	940.00	795.00	645.00
FLUORIDE, DISSOLVED (MG/L AS F)	34	1.00	0.10	0.34	0.18	0.33	0.30	0.28
SILICA, DISSOLVED (MG/L AS SIO2)	34	14.00	0.20	6.25	4.94	11.00	5.20	1.38
ARSENIC, DISSOLVED (UG/L AS AS)	10	4.00	1.00	1.80	1.03	2.25	1.50	1.00
ARSENIC, TOTAL (UG/L AS AS)	2	4.00	2.00					
BARIUM, DISSOLVED (UG/L AS BA)	10	200.00	0.00	101.00	84.39	200.00	100.00	0.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	2	200.00	100.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	2	1.00	1.00					
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	2	0.00	0.00					
BORON, DISSOLVED (UG/L AS B)	18	2000.00	680.00	1233.33	321.16	1500.00	1250.00	1000.00
CHROMIUM, DISSOLVED (UG/L AS CR)	10	10.00	0.00	5.00	5.27	10.00	5.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	30.00	0.00					
COBALT, DISSOLVED (UG/L AS CO)	2	3.00	3.00					
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	2	1.00	0.00					
COPPER, DISSOLVED (UG/L AS CU)	10	10.00	0.00	3.00	3.80	4.75	1.50	0.75
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	2	9.00	4.00					
IRON, DISSOLVED (UG/L AS FE)	18	330.00	0.00	63.39	79.16	82.50	35.00	16.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	440.00	70.00					
MANGANESE, DISSOLVED (UG/L AS MN)	10	1900.00	40.00	650.50	653.77	1250.00	415.00	56.25
MOLYBDENUM, DISSOLVED (UG/L AS MO)	10	10.00	0.00	2.20	4.13	3.25	0.00	0.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	2	2.00	0.00					
NICKEL, DISSOLVED (UG/L AS NI)	2	3.00	2.00					
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	6.00	4.00					
VANADIUM, DISSOLVED (UG/L AS V)	2	6.00	6.00					
ZINC, DISSOLVED (UG/L AS ZN)	10	340.00	3.00	46.10	103.45	20.00	15.00	9.50
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	40.00	10.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	10	350.00	0.00	46.50	107.39	32.50	10.00	3.75
LITHIUM, DISSOLVED (UG/L AS LI)	10	100.00	35.00	55.40	17.11	60.00	50.00	49.75
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	2	50.00	30.00					
SELENIUM, DISSOLVED (UG/L AS SE)	10	2.00	0.00	1.10	0.74	2.00	1.00	0.75
SELENIUM, TOTAL (UG/L AS SE)	2	1.00	1.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	33	2420.00	396.00	1512.24	427.74	1785.00	1550.00	1285.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	34	3.29	0.54	2.07	0.58	2.44	2.13	1.78
MERCURY, DISSOLVED (UG/L AS HG)	10	0.40	0.00	0.09	0.14	0.20	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	2	0.10	0.00					
SEDIMENT, SUSPENDED (MG/L)	34	396.00	3.00	54.91	77.30	69.50	30.00	9.75
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	34	75.00	0.00	3.61	14.45	0.03	0.01	0.00

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	0.16	0.00	0.07	0.04	60.13	0.1	0.12	0.10	0.08	0.05	0.00
NOVEMBER	0.24	0.05	0.12	0.05	38.27	0.2	0.20	0.16	0.11	0.09	0.06
DECEMBER	0.20	0.02	0.11	0.05	47.07	0.2	0.18	0.15	0.12	0.06	0.02
JANUARY	0.15	0.01	0.12	0.04	34.29	0.2	0.15	0.15	0.12	0.10	0.02
FEBRUARY	0.25	0.08	0.13	0.03	24.68	0.2	0.20	0.14	0.13	0.10	0.10
MARCH	820.00	0.06	40.77	142.61	349.82	59.8	336.20	0.80	0.16	0.14	0.07
APRIL	340.00	0.08	23.76	56.45	237.58	33.7	140.00	12.50	4.00	0.12	0.10
MAY	13.00	0.00	1.91	2.45	128.38	2.8	8.26	2.70	1.30	0.09	0.02
JUNE	64.00	0.00	1.58	6.83	432.92	2.2	4.32	1.13	0.35	0.08	0.00
JULY	0.97	0.00	0.16	0.18	110.54	0.2	0.54	0.25	0.13	0.00	0.00
AUGUST	12.00	0.00	0.19	1.25	640.01	0.3	0.12	0.08	0.05	0.00	0.00
SEPTEMBER	0.32	0.02	0.09	0.05	58.80	0.1	0.20	0.11	0.08	0.05	0.03
ANNUAL	820.00	0.00	5.78	46.12	797.21	100.0	7.03	0.20	0.12	0.08	0.00

06350000 CANNONBALL RIVER AT REGENT, ND

LOCATION.--Lat 46°25'36", long 102°33'05", in NE¼NE¼ sec.13, T.134 N., R.95 W., Hettinger County, Hydrologic Unit 10130204, on right bank 400 ft (120 m) upstream from bridge on county highway, and 0.3 mi (0.5 km) north of Regent.

DRAINAGE AREA.--580 mi^2 (1,500 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	86	28.50	0.00	9.12	9.28	18.25	6.00	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	87	9619.98	0.68	313.48	1275.80	41.00	7.10	4.10
SPECIFIC CONDUCTANCE (MICROMHOS)	84	2800.00	270.00	1742.20	581.78	2027.50	1900.00	1520.00
OXYGEN, DISSOLVED (MG/L)	36	15.90	5.90	9.41	2.57	11.55	8.70	7.23
OXYGEN, DISSOLVED (PERCENT SATURATION)	35	127.00	44.00	88.97	22.84	104.00	90.00	78.00
PH (UNITS)	42	8.60	7.40	8.15	0.30	8.40	8.20	7.88
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	41	33.00	0.60	7.23	7.62	9.60	3.90	2.75
BICARBONATE (MG/L AS HCO3)	41	869.00	80.00	438.39	139.77	494.00	439.00	383.50
CARBONATE (MG/L AS CO3)	41	16.80	0.00	1.85	3.84	1.50	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	36	1.70	0.54	1.08	0.28	1.30	1.10	0.91
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	36	1.70	0.29	0.79	0.30	0.94	0.78	0.53
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	36	0.44	0.00	0.08	0.09	0.10	0.05	0.03
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	36	0.86	0.00	0.21	0.26	0.33	0.09	0.02
PHOSPHORUS, TOTAL (MG/L AS P)	36	0.14	0.00	0.04	0.03	0.07	0.04	0.02
PHOSPHORUS, DISSOLVED (MG/L AS P)	36	0.69	0.00	0.03	0.11	0.02	0.01	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	36	120.00	8.70	15.65	18.11	14.00	12.00	11.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	35	5.70	0.10	0.87	0.97	0.90	0.60	0.40
HARDNESS (MG/L AS CACO3)	42	890.00	72.00	498.86	156.54	602.50	530.00	417.50
HARDNESS, NONCARBONATE (MG/L CACO3)	41	380.00	0.00	138.05	104.00	215.00	150.00	47.00
CALCIUM, DISSOLVED (MG/L AS CA)	42	190.00	15.00	94.10	33.86	120.00	100.00	64.75
MAGNESIUM, DISSOLVED (MG/L AS MG)	42	100.00	8.40	64.13	18.52	75.25	67.00	55.75
SODIUM, DISSOLVED (MG/L AS NA)	42	390.00	54.00	267.86	72.88	320.00	275.00	237.50
SODIUM PERCENT	42	74.00	45.00	54.43	6.78	59.00	53.00	49.00
POTASSIUM, DISSOLVED (MG/L AS K)	42	10.00	4.80	7.77	1.14	8.30	7.85	7.18
CHLORIDE, DISSOLVED (MG/L AS CL)	42	55.00	0.90	10.83	7.71	12.25	9.90	8.10
SULFATE, DISSOLVED (MG/L AS SO4)	42	1100.00	120.00	685.00	195.89	762.50	700.00	627.50
FLUORIDE, DISSOLVED (MG/L AS F)	42	0.70	0.10	0.43	0.13	0.50	0.45	0.40
SILICA, DISSOLVED (MG/L AS SIO2)	42	13.00	2.00	7.01	3.15	9.45	6.25	4.85
ARSENIC, DISSOLVED (UG/L AS AS)	10	2.00	1.00	1.50	0.53	2.00	1.50	1.00
ARSENIC, TOTAL (UG/L AS AS)	6	3.00	2.00	2.33	0.52	3.00	2.00	2.00
BARIUM, DISSOLVED (UG/L AS BA)	9	200.00	30.00	81.11	52.07	95.00	80.00	35.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	6	200.00	100.00	133.33	51.64	200.00	100.00	100.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	10	1.00	0.00	0.60	0.52	1.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	42	930.00	150.00	588.10	164.79	690.00	615.00	490.00
CHROMIUM, DISSOLVED (UG/L AS CR)	10	10.00	0.00	2.00	4.22	2.50	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	6	20.00	5.00	10.83	4.92	12.50	10.00	8.75
COBALT, DISSOLVED (UG/L AS CO)	10	3.00	0.00	1.80	1.55	3.00	3.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	6	4.00	0.00	1.17	1.60	2.50	0.50	0.00
COPPER, DISSOLVED (UG/L AS CU)	11	29.00	2.00	9.73	7.96	10.00	8.00	4.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	6	12.00	4.00	8.00	3.41	11.25	8.50	4.00
IRON, DISSOLVED (UG/L AS FE)	42	1400.00	10.00	86.74	222.82	60.00	30.00	20.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	430.00	180.00	288.33	96.00	370.00	290.00	187.50
MANGANESE, DISSOLVED (UG/L AS MN)	16	230.00	10.00	84.50	67.79	137.50	61.00	22.50
MOLYBDENUM, DISSOLVED (UG/L AS MO)	10	14.00	0.00	7.20	5.12	10.50	10.00	1.75
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	6	5.00	0.00	2.67	1.97	4.25	3.00	0.75
NICKEL, DISSOLVED (UG/L AS NI)	10	5.00	0.00	2.80	1.69	4.25	2.50	1.75
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	6	9.00	5.00	6.50	1.38	7.50	6.00	5.75
VANADIUM, DISSOLVED (UG/L AS V)	10	6.00	0.00	2.00	2.79	6.00	0.50	0.00
ZINC, DISSOLVED (UG/L AS ZN)	10	20.00	3.00	7.80	7.04	12.50	3.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	6	40.00	10.00	25.00	10.49	32.50	25.00	17.50
ALUMINUM, DISSOLVED (UG/L AS AL)	10	30.00	0.00	8.00	10.33	12.50	5.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	10	60.00	30.00	44.70	11.58	53.25	47.50	30.75
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	6	60.00	20.00	41.67	14.72	52.50	45.00	27.50
SELENIUM, DISSOLVED (UG/L AS SE)	10	1.00	0.00	0.50	0.53	1.00	0.50	0.00
SELENIUM, TOTAL (UG/L AS SE)	6	1.00	0.00	0.83	0.41	1.00	1.00	0.75
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	42	2120.00	233.00	1363.14	364.88	1512.50	1395.00	1282.50
SOLIDS, DISSOLVED (TONS PER AC-FT)	42	2.88	0.32	1.85	0.50	2.06	1.90	1.74
MERCURY, DISSOLVED (UG/L AS HG)	10	0.40	0.00	0.05	0.13	0.03	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	6	0.20	0.00	0.05	0.08	0.13	0.00	0.00
SEDIMENT, SUSPENDED (MG/L)	39	436.00	11.00	82.74	69.48	116.00	68.00	40.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	39	2500.00	0.07	68.59	399.83	3.00	1.20	0.60

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	115.00	2.90	15.01	20.15	134.25	2.1	59.00	15.50	6.20	4.50	3.34
NOVEMBER	9.50	4.10	6.41	1.54	23.99	0.9	9.00	7.55	6.55	4.60	4.60
DECEMBER	9.00	3.50	6.04	1.46	24.17	0.8	8.00	7.00	6.50	4.50	3.80
JANUARY	5.50	2.00	3.39	1.07	31.53	0.5	5.00	4.50	3.00	2.50	2.00
FEBURARY	6.00	2.00	3.76	0.90	23.81	0.5	5.85	4.00	4.00	3.00	2.50
MARCH	7880.00	3.00	371.28	1198.39	322.77	52.2	2503.98	31.00	8.00	5.50	3.00
APRIL	2190.00	4.60	240.70	395.14	164.16	32.8	1113.50	332.50	62.50	16.00	5.67
MAY	130.00	1.70	27.75	26.89	96.93	3.9	97.20	39.50	23.00	4.70	2.20
JUNE	645.00	1.40	29.04	71.85	247.44	4.0	94.35	26.50	13.00	7.18	1.56
JULY	28.00	0.60	7.30	6.24	85.42	1.0	21.00	11.00	6.90	1.10	0.74
AUGUST	25.00	0.55	4.62	3.34	72.21	0.7	8.80	6.50	4.60	1.50	0.65
SEPTEMBER	13.00	1.50	4.93	2.71	55.05	0.7	11.00	6.40	4.50	2.48	1.76
ANNUAL	7880.00	0.55	60.32	383.24	635.36	100.0	132.25	12.00	6.10	4.00	1.40

06351000 CANNONBALL RIVER BELOW BENTLEY, ND

LOCATION.--Lat 46°21'30", long 102°02'30", in SW¼SW¼ sec.6, T.133 N., R.90 W., Grant County, Hydrologic Unit 10130204, on left bank 0.25 mi (0.4 km) downstream from Thirty Mile Creek, and 2 mi (3 km) northeast of Bentley.

DRAINAGE AREA.--1,140 mi^2 (2,950 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	44	25.00	0.00	8.16	8.60	15.75	5.50	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	44	9289.98	1.30	617.01	1762.73	180.75	20.50	11.25
SPECIFIC CONDUCTANCE (MICROMHOS)	44	2750.00	330.00	1661.82	636.33	2150.00	1760.00	1172.50
PH (UNITS)	6	8.20	7.70	7.98	0.19	8.20	7.95	7.85
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	6	12.00	2.20	4.83	3.64	6.67	3.60	2.57
BICARBONATE (MG/L AS HCO3)	6	391.00	111.00	269.17	114.56	385.00	284.00	149.25
CARBONATE (MG/L AS CO3)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	6	540.00	160.00	351.67	145.11	465.00	370.00	212.50
HARDNESS, NONCARBONATE (MG/L CACO3)	6	220.00	70.00	131.67	61.01	197.50	114.00	79.00
CALCIUM, DISSOLVED (MG/L AS CA)	6	98.00	33.00	65.50	25.34	87.50	65.00	44.25
MAGNESIUM, DISSOLVED (MG/L AS MG)	6	72.00	19.00	45.67	20.13	61.50	49.00	25.00
SODIUM, DISSOLVED (MG/L AS NA)	6	220.00	55.00	159.83	68.24	212.50	190.00	84.25
SODIUM PERCENT	6	57.00	42.00	48.33	5.01	51.75	47.50	45.00
POTASSIUM, DISSOLVED (MG/L AS K)	6	8.70	5.70	7.27	1.02	7.87	7.50	6.37
CHLORIDE, DISSOLVED (MG/L AS CL)	6	10.00	3.10	6.92	3.06	9.55	7.90	3.17
SULFATE, DISSOLVED (MG/L AS SO4)	6	680.00	170.00	463.33	197.65	627.50	520.00	252.50
FLUORIDE, DISSOLVED (MG/L AS F)	6	0.40	0.10	0.25	0.14	0.40	0.25	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	6	8.00	3.60	6.17	1.79	8.00	6.40	4.35
BORON, DISSOLVED (UG/L AS B)	6	550.00	140.00	286.67	143.62	362.50	275.00	170.00
IRON, DISSOLVED (UG/L AS FE)	6	140.00	10.00	68.33	49.16	110.00	70.00	17.50
MANGANESE, DISSOLVED (UG/L AS MN)	6	130.00	0.00	68.33	60.80	122.50	70.00	15.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	6	1350.00	362.00	916.67	374.61	1222.50	1009.00	533.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	6	1.84	0.49	1.24	0.51	1.66	1.37	0.72

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	231.00	7.10	46.10	63.42	137.57	2.9	202.90	33.50	16.00	15.00	7.10
NOVEMBER	78.00	11.00	18.51	7.89	42.65	1.1	24.45	22.00	16.00	15.00	13.00
DECEMBER	26.00	11.00	16.41	4.03	24.55	1.0	25.00	20.00	15.00	14.00	11.00
JANUARY	14.00	6.00	10.05	1.85	18.43	0.6	13.30	11.00	10.00	10.00	6.00
FEBURARY	16.00	6.00	10.38	1.91	18.39	0.6	15.40	11.00	10.00	10.00	7.30
MARCH	10700.00	8.00	681.73	1992.22	292.23	43.2	5823.99	136.00	21.00	14.00	9.70
APRIL	3640.00	12.00	554.00	751.16	135.59	34.0	2211.50	882.50	214.00	45.00	17.00
MAY	562.00	3.70	91.51	105.61	115.41	5.8	361.80	115.00	73.00	14.00	4.27
JUNE	2080.00	5.30	106.91	236.39	221.11	6.6	372.75	74.75	48.50	31.00	7.43
JULY	491.00	1.50	39.44	66.29	168.09	2.5	130.30	44.50	24.00	3.65	2.00
AUGUST	59.00	1.10	14.25	11.43	80.18	0.9	36.30	18.00	14.00	2.40	1.20
SEPTEMBER	40.00	4.90	12.67	6.83	53.95	0.8	27.90	16.00	12.00	7.73	5.21
ANNUAL	10700.00	1.10	133.96	659.04	491.96	100.0	439.60	38.00	16.00	11.00	3.79

06351680 WHITE BUTTE FORK CEDAR CREEK NEAR SCRANTON, ND

LOCATION.--Lat 46°19'20", long 102°59'45", in NW¼ sec.21, T.133 N., R.98 W., Slope County, Hydrologic Unit 10130205, on left bank 1,200 ft (366 m) downstream from county highway bridge, and 13 mi (21 km) northeast of Scranton.

DRAINAGE AREA.--42.9 mi^2 (111 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	30	25.50	0.00	7.87	8.94	14.75	5.50	0.38
STREAMFLOW, INSTANTANEOUS (CFS)	30	208.00	0.01	18.92	50.59	8.02	0.48	0.12
SPECIFIC CONDUCTANCE (MICROMHOS)	30	6499.99	338.00	3037.83	1593.67	4205.00	3174.99	1490.00
PH (UNITS)	5	8.20	7.50	7.90	0.26	8.10	8.00	7.65
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	5	17.00	2.20	5.82	6.29	10.55	2.90	2.55
BICARBONATE (MG/L AS HCO3)	5	328.00	163.00	215.00	66.78	275.00	182.00	171.50
CARBONATE (MG/L AS CO3)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	5	1600.00	240.00	982.00	672.47	1550.00	1300.00	255.00
HARDNESS, NONCARBONATE (MG/L CACO3)	5	1400.00	110.00	786.00	629.98	1350.00	1000.00	115.00
CALCIUM, DISSOLVED (MG/L AS CA)	5	240.00	47.00	145.20	92.32	230.00	170.00	48.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	5	240.00	30.00	149.20	106.65	235.00	210.00	33.00
SODIUM, DISSOLVED (MG/L AS NA)	5	710.00	96.00	445.20	313.41	690.00	640.00	103.00
SODIUM PERCENT	5	53.00	46.00	48.40	2.88	51.00	48.00	46.00
POTASSIUM, DISSOLVED (MG/L AS K)	5	13.00	4.70	9.50	3.92	12.50	12.00	5.25
CHLORIDE, DISSOLVED (MG/L AS CL)	5	27.00	3.00	14.92	10.58	24.00	19.00	3.80
SULFATE, DISSOLVED (MG/L AS SO4)	5	2800.00	310.00	1714.00	1267.55	2750.00	2400.00	335.00
FLUORIDE, DISSOLVED (MG/L AS F)	5	0.40	0.10	0.22	0.13	0.35	0.20	0.10
SILICA, DISSOLVED (MG/L AS SIO2)	5	10.00	0.00	4.68	4.86	9.95	1.80	0.85
BORON, DISSOLVED (UG/L AS B)	5	1200.00	300.00	818.00	367.72	1150.00	880.00	455.00
IRON, DISSOLVED (UG/L AS FE)	5	400.00	40.00	196.00	134.46	320.00	160.00	90.00
MANGANESE, DISSOLVED (UG/L AS MN)	5	550.00	60.00	202.00	200.30	365.00	140.00	70.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	5	4300.00	639.00	2704.40	1872.71	4230.00	3730.00	666.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	5	5.85	0.87	3.68	2.55	5.75	5.07	0.90

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS						PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION	PERCENT OF ANNUAL RUNOFF	95	75	50 MEDIAN	25	5
OCTOBER	26.00	0.00	0.86	3.14	363.68	1.8	3.91	0.45	0.00	0.00	0.00
NOVEMBER	0.86	0.01	0.16	0.14	89.36	0.3	0.46	0.20	0.11	0.09	0.04
DECEMBER	0.80	0.00	0.20	0.16	79.95	0.4	0.63	0.20	0.18	0.10	0.05
JANUARY	0.16	0.00	0.05	0.06	121.60	0.1	0.16	0.12	0.00	0.00	0.00
FEBURARY	0.22	0.00	0.05	0.07	146.92	0.1	0.18	0.13	0.00	0.00	0.00
MARCH	453.00	0.00	23.89	80.42	336.63	48.6	239.60	0.55	0.14	0.00	0.00
APRIL	250.00	0.01	20.15	40.78	202.42	39.7	97.50	20.50	6.00	0.20	0.02
MAY	30.00	0.00	2.97	5.05	170.04	6.1	15.30	3.15	1.40	0.02	0.00
JUNE	35.00	0.00	1.22	4.35	356.62	2.4	4.37	0.56	0.31	0.05	0.00
JULY	8.10	0.00	0.25	0.93	370.60	0.5	0.79	0.18	0.02	0.00	0.00
AUGUST	0.02	0.00	0.00	0.00	251.67	0.0	0.01	0.00	0.00	0.00	0.00
SEPTEMBER	0.01	0.00	0.00	0.00	466.28	0.0	0.00	0.00	0.00	0.00	0.00
ANNUAL	453.00	0.00	4.17	27.36	656.56	100.0	9.04	0.30	0.08	0.00	0.00

06352000 CEDAR CREEK NEAR HAYNES, ND

LOCATION.--Lat 46°09'15", long 102°28'25", in W½ sec.20, T.131 N., R.94 W., Adams County, Hydrologic Unit 10130205, on left bank 30 ft (9 m) downstream from bridge on State Highway 8, and 12.5 mi (20 km) north of Haynes.

DRAINAGE AREA.--553 mi^2 (1,430 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	47	26.00	0.00	7.64	8.79	15.00	4.50	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	47	6819.99	0.40	476.00	1471.33	58.00	5.60	3.40
SPECIFIC CONDUCTANCE (MICROMHOS)	47	3510.00	300.00	1988.40	846.47	2420.00	1990.00	1700.00
PH (UNITS)	8	8.30	7.90	8.16	0.16	8.30	8.20	8.02
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	7	9.30	1.90	4.21	2.62	5.80	3.30	1.90
BICARBONATE (MG/L AS HCO3)	7	528.00	120.00	359.43	160.82	463.00	416.00	146.00
CARBONATE (MG/L AS CO3)	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	8	630.00	200.00	482.50	167.82	620.00	525.00	310.00
HARDNESS, NONCARBONATE (MG/L CACO3)	8	320.00	56.00	187.00	95.90	292.50	170.00	107.50
CALCIUM, DISSOLVED (MG/L AS CA)	8	110.00	37.00	81.00	27.51	107.50	85.50	53.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	8	90.00	26.00	68.25	24.66	85.75	76.00	43.25
SODIUM, DISSOLVED (MG/L AS NA)	8	350.00	73.00	240.62	107.67	332.50	265.00	121.50
SODIUM PERCENT	8	60.00	41.00	49.75	6.50	55.50	48.50	44.00
POTASSIUM, DISSOLVED (MG/L AS K)	8	10.00	5.80	8.20	1.39	9.35	8.25	7.17
CHLORIDE, DISSOLVED (MG/L AS CL)	8	14.00	2.30	9.49	4.24	12.75	10.50	5.30
SULFATE, DISSOLVED (MG/L AS SO4)	8	910.00	260.00	678.75	258.48	847.50	805.00	385.00
FLUORIDE, DISSOLVED (MG/L AS F)	8	0.50	0.10	0.31	0.16	0.40	0.40	0.12
SILICA, DISSOLVED (MG/L AS SIO2)	8	8.20	4.30	6.32	1.18	7.20	6.25	5.70
BORON, DISSOLVED (UG/L AS B)	8	970.00	120.00	456.25	271.92	585.00	460.00	195.00
IRON, DISSOLVED (UG/L AS FE)	8	530.00	0.00	137.50	182.11	220.00	50.00	12.50
MANGANESE, DISSOLVED (UG/L AS MN)	8	140.00	40.00	75.00	30.24	87.50	65.00	60.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	8	1720.00	448.00	1300.88	500.28	1612.50	1550.00	766.75
SOLIDS, DISSOLVED (TONS PER AC-FT)	8	2.34	0.61	1.77	0.68	2.19	2.10	1.04

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	28.00	1.70	6.75	6.85	101.54	0.9	24.30	7.50	3.80	2.75	1.70
NOVEMBER	6.80	2.70	4.10	0.85	20.62	0.5	6.49	4.10	4.00	3.70	3.11
DECEMBER	7.50	2.50	4.84	1.43	29.57	0.7	7.50	6.00	4.50	4.00	3.00
JANUARY	4.50	1.50	2.63	0.69	26.14	0.4	4.00	3.00	2.50	2.00	1.50
FEBURARY	5.00	2.00	3.12	1.00	32.04	0.4	4.50	4.50	2.50	2.50	2.00
MARCH	6540.00	2.50	304.36	1134.07	372.61	41.1	3183.98	9.00	5.50	3.75	2.50
APRIL	3580.00	3.40	343.95	631.45	183.59	44.9	1784.50	425.50	96.00	6.88	3.46
MAY	195.00	1.50	38.19	40.10	104.99	5.2	126.00	53.00	33.00	2.85	1.70
JUNE	772.00	1.70	31.53	89.36	283.44	4.1	62.35	23.25	13.00	8.08	2.17
JULY	37.00	0.40	6.12	5.95	97.29	0.8	14.30	9.05	5.00	1.05	0.45
AUGUST	5.50	0.45	2.73	1.52	55.51	0.4	5.33	3.65	3.00	0.99	0.50
SEPTEMBER	27.00	0.81	5.09	6.27	123.27	0.7	26.45	4.83	3.00	2.30	0.86
ANNUAL	6540.00	0.40	62.85	393.85	626.62	100.0	140.20	8.35	4.00	2.80	1.00

06352400 TIMBER CREEK NEAR BENTLEY, ND

LOCATION.--Lat 46°06'05", long 101°57'26", in NE¼NE¼NE¼ sec.8, T.130 N., R.90 W., Grant County, Hydrologic Unit 10130205, on left bank 100 ft (30 m) upstream from bridge on North Dakota Highway 49, 17 mi (27 km) southeast of Bentley, and 7 mi (11 km) upstream from mouth.

DRAINAGE AREA.--100 mi^2 (260 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	40	28.00	-0.50	9.84	9.43	20.13	8.25	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	41	2140.00	0.27	68.64	335.14	11.20	1.90	0.86
SPECIFIC CONDUCTANCE (MICROMHOS)	35	4250.00	810.00	2801.14	803.30	3500.00	2670.00	2240.00
OXYGEN, DISSOLVED (MG/L)	32	14.50	6.10	10.03	2.49	11.88	9.75	8.07
OXYGEN, DISSOLVED (PERCENT SATURATION)	32	176.00	51.00	93.78	24.19	106.00	93.50	75.50
PH (UNITS)	35	8.50	7.50	8.09	0.25	8.30	8.20	7.90
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	35	34.00	2.40	8.17	7.91	8.80	4.60	3.70
BICARBONATE (MG/L AS HCO3)	35	870.00	124.00	496.81	162.98	550.00	478.00	403.00
CARBONATE (MG/L AS CO3)	35	14.00	0.00	0.89	2.84	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	35	6.20	0.56	2.20	1.52	3.40	1.40	1.10
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	35	3.40	0.42	0.99	0.52	1.20	0.97	0.68
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	35	0.37	0.00	0.08	0.08	0.14	0.06	0.03
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	35	4.80	0.00	1.12	1.46	2.40	0.25	0.02
PHOSPHORUS, TOTAL (MG/L AS P)	35	1.30	0.00	0.09	0.21	0.06	0.04	0.03
PHOSPHORUS, DISSOLVED (MG/L AS P)	35	0.08	0.00	0.02	0.02	0.02	0.01	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	33	30.00	5.50	16.16	5.87	20.50	15.00	12.50
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	32	2.70	0.10	0.74	0.58	0.98	0.55	0.40
HARDNESS (MG/L AS CACO3)	35	1200.00	230.00	774.86	244.10	1000.00	740.00	600.00
HARDNESS, NONCARBONATE (MG/L CACO3)	35	830.00	130.00	364.86	175.86	450.00	330.00	240.00
CALCIUM, DISSOLVED (MG/L AS CA)	35	190.00	39.00	124.43	37.21	150.00	130.00	100.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	35	180.00	32.00	112.03	37.39	140.00	110.00	86.00
SODIUM, DISSOLVED (MG/L AS NA)	35	670.00	70.00	404.63	142.23	520.00	390.00	320.00
SODIUM PERCENT	35	82.00	39.00	53.34	7.33	56.00	54.00	51.00
POTASSIUM, DISSOLVED (MG/L AS K)	35	18.00	1.20	12.13	3.31	15.00	12.00	10.00
CHLORIDE, DISSOLVED (MG/L AS CL)	35	510.00	3.40	27.23	84.12	16.00	14.00	9.80
SULFATE, DISSOLVED (MG/L AS SO4)	35	2100.00	270.00	1171.71	408.52	1500.00	1200.00	880.00
FLUORIDE, DISSOLVED (MG/L AS F)	35	0.90	0.00	0.33	0.14	0.40	0.30	0.30
SILICA, DISSOLVED (MG/L AS SIO2)	35	14.00	0.10	5.48	4.40	8.10	4.50	1.90
ARSENIC, DISSOLVED (UG/L AS AS)	11	3.00	1.00	1.82	0.75	2.00	2.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	7	3.00	1.00	2.43	0.79	3.00	3.00	2.00
BARIUM, DISSOLVED (UG/L AS BA)	11	200.00	0.00	81.82	72.64	150.00	50.00	30.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	7	200.00	0.00	138.57	82.14	200.00	200.00	70.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	11	5.00	0.00	1.18	1.54	1.00	1.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BORON, DISSOLVED (UG/L AS B)	34	1300.00	230.00	693.24	232.09	797.50	685.00	517.50
CHROMIUM, DISSOLVED (UG/L AS CR)	11	10.00	0.00	1.64	3.67	0.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	7	10.00	0.00	4.29	5.35	10.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	11	8.00	0.00	2.09	2.47	3.00	3.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	7	3.00	0.00	1.71	1.11	3.00	2.00	1.00
COPPER, DISSOLVED (UG/L AS CU)	13	27.00	1.00	11.15	8.81	19.50	10.00	4.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	7	19.00	1.00	7.86	6.12	10.00	8.00	1.00
IRON, DISSOLVED (UG/L AS FE)	34	550.00	10.00	64.76	104.63	52.50	33.00	20.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	7	420.00	140.00	252.86	118.70	370.00	240.00	140.00
MANGANESE, DISSOLVED (UG/L AS MN)	11	250.00	26.00	131.45	68.55	170.00	120.00	70.00
MOLYBDENUM, DISSOLVED (UG/L AS MO)	11	25.00	0.00	7.55	7.35	10.00	10.00	1.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	7	7.00	0.00	3.43	2.51	6.00	3.00	1.00
NICKEL, DISSOLVED (UG/L AS NI)	11	8.00	0.00	3.64	2.11	5.00	3.00	2.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	7	16.00	2.00	8.57	4.58	12.00	8.00	6.00
VANADIUM, DISSOLVED (UG/L AS V)	10	8.00	0.00	2.52	3.05	6.00	1.00	0.00
ZINC, DISSOLVED (UG/L AS ZN)	11	30.00	3.00	11.36	9.50	20.00	8.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	7	40.00	20.00	25.71	7.87	30.00	20.00	20.00
ALUMINUM, DISSOLVED (UG/L AS AL)	11	170.00	0.00	31.82	49.36	50.00	10.00	0.00
LITHIUM, DISSOLVED (UG/L AS LI)	11	140.00	20.00	83.27	39.21	120.00	96.00	43.00
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	7	130.00	20.00	90.00	38.30	120.00	100.00	60.00
SELENIUM, DISSOLVED (UG/L AS SE)	11	9.00	1.00	3.09	2.47	5.00	2.00	1.00
SELENIUM, TOTAL (UG/L AS SE)	7	9.00	1.00	2.86	2.91	4.00	2.00	1.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	35	3480.00	531.00	2185.46	692.48	2750.00	2080.00	1700.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	35	4.73	0.72	2.97	0.94	3.74	2.83	2.31
MERCURY, DISSOLVED (UG/L AS HG)	11	0.30	0.00	0.04	0.09	0.00	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	7	0.30	0.00	0.11	0.11	0.20	0.10	0.00
SEDIMENT, SUSPENDED (MG/L)	39	572.00	10.00	63.62	91.57	73.00	42.00	22.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	39	3310.00	0.01	89.04	529.57	1.20	0.25	0.07

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	59.00	0.32	5.39	9.68	179.65	2.0	28.60	5.10	1.10	0.55	0.38
NOVEMBER	3.20	0.80	1.79	0.59	32.86	0.7	2.85	2.20	1.80	1.30	0.96
DECEMBER	2.20	0.40	1.37	0.40	29.32	0.5	2.00	1.70	1.40	1.05	0.60
JANUARY	1.60	0.50	1.03	0.30	29.05	0.4	1.53	1.25	1.00	0.80	0.57
FEBRUARY	1.30	0.00	0.75	0.41	54.87	0.3	1.30	1.00	0.80	0.50	0.00
MARCH	1980.00	0.00	95.48	318.98	334.08	35.8	844.70	8.75	2.30	1.20	0.00
APRIL	430.00	2.50	63.55	83.18	130.88	23.1	222.50	101.00	26.50	4.70	2.76
MAY	97.00	1.10	14.70	17.86	121.47	5.5	64.00	19.00	11.00	2.30	1.20
JUNE	1040.00	0.78	47.88	151.55	316.53	17.4	297.00	19.00	7.10	3.65	1.15
JULY	1670.00	0.38	37.13	184.85	497.87	13.9	176.90	5.85	3.10	0.58	0.43
AUGUST	4.70	0.00	0.95	1.02	107.37	0.4	3.58	1.10	0.51	0.34	0.16
SEPTEMBER	1.50	0.21	0.50	0.28	56.05	0.2	1.00	0.68	0.35	0.28	0.24
ANNUAL	1980.00	0.00	22.64	121.67	537.45	100.0	75.00	4.70	1.40	0.80	0.28

06353000 CEDAR CREEK NEAR RALEIGH, ND

LOCATION.--Lat 46°05'30", long 101°20'00", in NE¼SE¼ sec.8, T.130 N., R.85 W., Grant County, Hydrologic Unit 10130205, on left bank at upstream side of bridge on N.D. Highway 31, 6 mi (10 km) upstream from mouth, and 19 mi (30 km) south of Raleigh.

DRAINAGE AREA.--1,750 mi^2 (4,530 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	46	27.00	0.00	10.51	10.09	19.37	7.50	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	48	10400.00	0.01	672.50	1927.68	187.75	14.50	7.50
SPECIFIC CONDUCTANCE (MICROMHOS)	48	3800.00	240.00	1854.17	1024.97	2500.00	1950.00	975.00
PH (UNITS)	15	8.60	7.40	8.08	0.39	8.50	8.10	7.80
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	15	35.00	1.40	9.47	10.66	15.00	4.70	1.90
BICARBONATE (MG/L AS HCO3)	16	746.00	73.00	399.44	173.27	419.25	393.00	327.00
CARBONATE (MG/L AS CO3)	16	6.00	0.00	0.38	1.50	0.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	16	980.00	68.00	574.25	247.93	767.50	545.00	460.00
HARDNESS, NONCARBONATE (MG/L CACO3)	16	440.00	8.00	246.56	125.01	357.50	235.00	167.50
CALCIUM, DISSOLVED (MG/L AS CA)	16	170.00	17.00	95.19	41.00	125.00	88.00	74.50
MAGNESIUM, DISSOLVED (MG/L AS MG)	16	140.00	6.20	81.70	36.66	110.00	82.50	54.25
SODIUM, DISSOLVED (MG/L AS NA)	16	550.00	23.00	312.69	138.60	385.00	330.00	235.00
SODIUM PERCENT	16	61.00	40.00	52.75	6.03	58.00	53.50	48.00
POTASSIUM, DISSOLVED (MG/L AS K)	16	14.00	5.70	10.39	2.53	12.00	9.95	8.67
CHLORIDE, DISSOLVED (MG/L AS CL)	16	18.00	2.10	12.05	4.32	14.00	13.00	9.52
SULFATE, DISSOLVED (MG/L AS SO4)	16	1400.00	63.00	888.31	369.22	1100.00	915.00	727.50
FLUORIDE, DISSOLVED (MG/L AS F)	16	0.50	0.00	0.31	0.13	0.40	0.30	0.22
SILICA, DISSOLVED (MG/L AS SIO2)	16	12.00	2.70	6.83	2.42	8.77	6.75	4.87
BORON, DISSOLVED (UG/L AS B)	16	880.00	90.00	470.62	256.61	720.00	440.00	282.50
IRON, DISSOLVED (UG/L AS FE)	16	1500.00	0.00	216.87	385.78	225.00	80.00	25.00
MANGANESE, DISSOLVED (UG/L AS MN)	16	240.00	0.00	71.87	71.01	87.50	55.00	20.00
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	16	2810.00	174.00	1648.13	700.37	2012.50	1655.00	1310.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	16	3.82	0.24	2.24	0.95	2.73	2.25	1.78

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	MEDIAN 50	25	5
OCTOBER	319.00	4.00	27.00	45.65	169.08	1.6	115.80	30.50	8.60	6.90	4.34
NOVEMBER	17.00	8.50	10.79	1.41	13.11	0.6	13.45	12.00	10.00	10.00	9.00
DECEMBER	12.00	2.50	6.99	2.01	28.76	0.4	10.00	8.50	7.00	5.80	3.48
JANUARY	6.00	0.10	2.96	1.43	48.24	0.2	5.00	4.00	3.50	1.70	0.37
FEBURARY	10.00	0.20	2.61	2.08	79.57	0.1	8.76	3.00	2.50	0.80	0.20
MARCH	10900.00	1.60	569.14	2043.17	358.99	33.7	7371.98	70.00	13.00	5.00	1.60
APRIL	7450.00	8.60	706.58	1073.80	151.97	40.5	2716.50	865.00	441.50	26.00	13.10
MAY	521.00	1.40	129.59	127.22	98.17	7.7	381.80	212.50	112.00	3.20	2.17
JUNE	700.00	2.60	118.49	122.48	103.37	6.8	412.80	134.75	80.50	38.50	23.65
JULY	2400.00	0.22	117.57	328.76	279.62	7.0	599.70	65.00	33.00	9.10	0.96
AUGUST	220.00	0.00	19.19	31.48	164.06	1.1	36.60	28.50	12.00	0.96	0.00
SEPTEMBER	26.00	0.01	6.57	4.91	74.76	0.4	13.00	10.00	7.80	0.25	0.03
ANNUAL	10900.00	0.00	143.41	712.88	497.09	100.0	509.15	42.00	10.00	4.00	0.40

06354000 CANNONBALL RIVER AT BREIEN, ND

LOCATION.--Lat 46°22'33", long 100°56'03", in sec.36, T.134 N., R.82 W., Morton County, Hydrologic Unit 10130206, on left bank at downstream side of bridge on State Highway 6, 1,500 ft (460 m) downstream from Louise Creek and 0.6 mi (1.0 km) southeast of Breien. Prior to June 12, 1973, at site 600 ft (180 m) upstream on right bank.

DRAINAGE AREA.--4,100 mi^2 (10,600 km^2), approximately.

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	49	25.00	0.00	8.89	9.20	17.25	6.00	0.00
STREAMFLOW, INSTANTANEOUS (CFS)	48	22859.95	7.50	1874.67	4898.99	1430.00	73.00	23.25
SPECIFIC CONDUCTANCE (MICROMHOS)	48	3710.00	190.00	1558.60	837.32	2092.50	1560.00	915.00
OXYGEN, DISSOLVED (MG/L)	35	13.10	5.00	9.43	1.99	11.30	9.30	7.80
OXYGEN, DISSOLVED (PERCENT SATURATION)	17	102.00	52.00	83.29	18.35	98.50	89.00	68.00
PH (UNITS)	35	8.70	7.60	8.22	0.30	8.50	8.30	8.00
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	8	21.00	1.50	8.37	8.80	19.25	2.65	1.95
BICARBONATE (MG/L AS HCO3)	7	670.00	220.00	450.00	182.85	660.00	450.00	290.00
CARBONATE (MG/L AS CO3)	7	1.00	0.00	0.14	0.38	0.00	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	31	5.50	0.61	1.45	1.00	1.70	1.00	0.93
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	31	4.20	0.27	1.13	0.78	1.30	0.90	0.67
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	35	0.22	0.00	0.06	0.06	0.11	0.04	0.01
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	35	1.10	0.00	0.26	0.31	0.39	0.10	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	35	1.00	0.00	0.16	0.23	0.26	0.05	0.02
PHOSPHORUS, DISSOLVED (MG/L AS P)	35	0.08	0.00	0.02	0.02	0.03	0.01	0.01
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	25	14.00	7.40	9.66	1.51	10.00	9.50	8.70
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	22	32.00	0.20	3.65	7.08	3.60	1.05	0.30
HARDNESS (MG/L AS CACO3)	35	1000.00	98.00	466.23	228.85	610.00	440.00	290.00
HARDNESS, NONCARBONATE (MG/L CACO3)	35	380.00	0.00	133.97	93.04	210.00	140.00	67.00
CALCIUM, DISSOLVED (MG/L AS CA)	35	160.00	23.00	84.46	39.19	120.00	71.00	56.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	35	150.00	9.80	62.14	33.08	91.00	62.00	38.00
SODIUM, DISSOLVED (MG/L AS NA)	35	620.00	61.00	270.09	129.05	370.00	270.00	160.00
SODIUM PERCENT	35	79.00	39.00	56.03	9.35	60.00	56.00	51.00
POTASSIUM, DISSOLVED (MG/L AS K)	35	16.00	2.30	10.00	2.50	12.00	11.00	8.20
CHLORIDE, DISSOLVED (MG/L AS CL)	35	39.00	2.50	13.47	8.49	18.00	12.00	7.30
SULFATE, DISSOLVED (MG/L AS SO4)	35	1500.00	120.00	682.29	320.37	900.00	670.00	390.00
FLUORIDE, DISSOLVED (MG/L AS F)	35	0.70	0.10	0.39	0.13	0.40	0.40	0.30
SILICA, DISSOLVED (MG/L AS SIO2)	35	14.00	3.00	7.70	2.69	9.00	7.90	5.80
ARSENIC, DISSOLVED (UG/L AS AS)	11	3.00	0.00	1.55	1.04	3.00	1.00	1.00
ARSENIC, TOTAL (UG/L AS AS)	24	20.00	1.00	3.63	4.19	4.75	2.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	10	200.00	0.00	90.00	50.99	100.00	100.00	70.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	24	800.00	0.00	183.33	171.10	200.00	100.00	100.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	22	10.00	0.00	0.91	2.94	0.00	0.00	0.00
CHROMIUM, DISSOLVED (UG/L AS CR)	11	10.00	0.00	1.82	4.05	0.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	24	75.00	0.00	13.96	17.63	20.00	10.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	11	5.00	0.00	1.55	1.75	3.00	1.00	0.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	24	40.00	0.00	5.42	9.27	5.75	2.50	0.00
COPPER, DISSOLVED (UG/L AS CU)	12	28.00	0.00	3.75	7.70	2.75	2.00	1.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	24	100.00	1.00	20.25	26.28	22.25	9.00	6.25
IRON, TOTAL RECOVERABLE (UG/L AS FE)	24	78000.00	130.00	8482.50	17669.08	5325.00	910.00	310.00
IRON, DISSOLVED (UG/L AS FE)	11	840.00	0.00	108.18	244.57	70.00	30.00	10.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	24	2200.00	20.00	282.92	457.18	367.50	115.00	72.50
MANGANESE, DISSOLVED (UG/L AS MN)	11	80.00	0.00	28.82	27.19	50.00	20.00	5.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	22	9.00	0.00	3.95	2.54	5.25	4.00	2.75
NICKEL, DISSOLVED (UG/L AS NI)	4	6.00	0.00					
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	22	140.00	3.00	25.32	32.59	31.50	13.00	7.00
ZINC, DISSOLVED (UG/L AS ZN)	11	120.00	0.00	17.27	34.57	10.00	10.00	3.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	24	300.00	0.00	64.58	70.22	87.50	40.00	20.00
LITHIUM, DISSOLVED (UG/L AS LI)	1	80.00	80.00					
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	22	100.00	20.00	65.45	19.93	80.00	70.00	50.00
SELENIUM, DISSOLVED (UG/L AS SE)	11	2.00	0.00	0.82	0.75	1.00	1.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	24	3.00	0.00	0.92	0.72	1.00	1.00	0.25
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	35	2960.00	288.00	1348.26	613.81	1810.00	1320.00	791.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	35	4.03	0.39	1.83	0.83	2.46	1.80	1.08
MERCURY, DISSOLVED (UG/L AS HG)	11	0.20	0.00	0.04	0.07	0.10	0.00	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	24	1.00	0.00	0.16	0.23	0.28	0.10	0.00
SEDIMENT, SUSPENDED (MG/L)	35	4000.00	6.00	424.11	902.00	308.00	32.00	18.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	35	50900.00	0.15	2794.46	9612.97	75.00	3.90	0.98

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	802.00	21.00	114.69	157.41	137.25	2.5	454.50	124.00	58.00	31.00	21.00
NOVEMBER	59.00	5.00	38.04	11.21	29.46	0.8	52.00	46.50	42.00	30.50	18.55
DECEMBER	48.00	18.00	33.78	5.97	17.68	0.7	42.00	37.50	35.00	30.00	22.00
JANUARY	33.00	7.00	16.70	6.31	37.81	0.4	31.00	22.00	15.00	12.00	8.70
FEBURARY	13.00	7.50	8.75	1.30	14.87	0.2	11.70	9.25	8.50	8.00	7.50
MARCH	21900.00	8.00	1383.31	4544.57	328.53	30.5	16359.95	195.00	20.00	9.50	8.00
APRIL	17500.00	49.00	1910.33	2624.19	137.37	40.8	6213.50	2145.00	1095.00	135.00	58.30
MAY	2710.00	16.00	404.23	453.34	112.15	8.9	1257.00	550.00	331.00	38.50	16.80
JUNE	2330.00	22.00	317.40	326.57	102.89	6.8	836.70	401.25	239.00	106.50	25.55
JULY	3510.00	3.90	278.48	536.18	192.54	6.1	1295.99	274.00	122.00	26.50	7.09
AUGUST	385.00	2.30	65.63	69.98	106.63	1.4	233.40	81.50	53.00	10.85	2.40
SEPTEMBER	86.00	5.90	34.03	20.05	58.91	0.7	69.00	46.00	37.00	12.75	6.80
ANNUAL	21900.00	2.30	384.43	1640.95	426.86	100.0	1511.50	149.50	40.00	18.00	7.60

06355000 NORTH FORK GRAND RIVER AT HALEY, ND

LOCATION.--Lat 45°57'39", long 103°07'09", at southwest corner of sec.30, T.129 N., R.99 W., Bowman County, Hydrologic Unit 10130301, on left bank 10 ft (3 m) downstream from county highway bridge, 300 ft (91 m) south of post office at Haley, and 1 mi (1.6 km) north of South Dakota state line.

DRAINAGE AREA.--509 mi^2 (1,318 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	50	27.00	0.00	9.85	9.38	18.87	6.75	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	50	2210.00	0.28	129.74	438.98	33.00	2.00	1.20
SPECIFIC CONDUCTANCE (MICROMHOS)	50	3600.00	400.00	2254.60	730.17	2750.00	2390.00	1687.50
OXYGEN, DISSOLVED (MG/L)	6	10.20	8.00	8.87	0.94	9.97	8.45	8.15
OXYGEN, DISSOLVED (PERCENT SATURATION)	4	114.00	94.00					
PH (UNITS)	10	9.10	7.20	8.39	0.50	8.60	8.40	8.30
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	6	17.00	0.60	4.72	6.09	6.65	2.75	1.65
BICARBONATE (MG/L AS HCO3)	6	504.00	165.00	371.17	128.54	480.75	387.50	273.75
CARBONATE (MG/L AS CO3)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HARDNESS (MG/L AS CACO3)	6	350.00	210.00	288.33	54.92	335.00	300.00	232.50
HARDNESS, NONCARBONATE (MG/L CACO3)	6	110.00	0.00	22.83	44.05	47.75	0.00	0.00
CALCIUM, DISSOLVED (MG/L AS CA)	6	61.00	40.00	51.17	8.01	57.25	53.00	43.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	6	51.00	27.00	39.17	8.70	45.75	40.50	30.75
SODIUM, DISSOLVED (MG/L AS NA)	6	480.00	86.00	327.67	147.38	465.00	335.00	224.00
SODIUM PERCENT	6	75.00	43.00	67.33	12.18	74.25	72.00	61.75
POTASSIUM, DISSOLVED (MG/L AS K)	6	11.00	4.10	7.87	2.39	10.10	7.60	6.35
CHLORIDE, DISSOLVED (MG/L AS CL)	6	13.00	3.00	7.85	3.29	10.15	7.75	5.55
SULFATE, DISSOLVED (MG/L AS SO4)	6	940.00	290.00	670.00	244.05	887.50	700.00	462.50
FLUORIDE, DISSOLVED (MG/L AS F)	6	1.20	0.10	0.53	0.39	0.75	0.55	0.17
SILICA, DISSOLVED (MG/L AS SIO2)	6	7.60	0.70	3.78	2.41	5.20	4.15	1.45
BORON, DISSOLVED (UG/L AS B)	6	830.00	130.00	475.00	236.45	650.00	485.00	280.00
IRON, DISSOLVED (UG/L AS FE)	6	610.00	20.00	313.33	258.04	535.00	355.00	27.50
MANGANESE, DISSOLVED (UG/L AS MN)	6	80.00	10.00	46.67	33.27	80.00	45.00	17.50
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	6	1800.00	613.00	1308.83	458.63	1755.00	1335.00	925.75
SOLIDS, DISSOLVED (TONS PER AC-FT)	6	2.45	0.83	1.78	0.63	2.39	1.81	1.26

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF ANNUAL RUNOFF	PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION		95	75	50 MEDIAN	25	5
OCTOBER	2.90	1.20	1.73	0.34	19.67	0.5	2.30	1.90	1.70	1.50	1.30
NOVEMBER	2.40	0.80	1.60	0.38	23.97	0.4	2.20	1.90	1.60	1.40	0.90
DECEMBER	2.50	0.80	1.54	0.43	28.13	0.4	2.36	1.80	1.60	1.00	0.85
JANUARY	1.80	0.30	0.83	0.45	54.98	0.2	1.53	1.20	0.80	0.40	0.30
FEBURARY	2.00	0.35	0.97	0.47	48.25	0.2	1.50	1.30	1.20	0.40	0.40
MARCH	2250.00	1.00	133.73	488.83	365.54	36.2	2004.00	3.00	2.40	1.50	1.00
APRIL	1930.00	1.20	176.14	297.59	168.95	46.1	706.65	209.50	85.50	1.80	1.30
MAY	161.00	0.63	33.09	36.41	110.02	9.0	122.50	46.50	30.00	0.99	0.70
JUNE	79.00	0.21	16.56	22.06	133.21	4.3	70.45	26.00	5.05	1.00	0.39
JULY	21.00	0.21	5.12	4.97	97.08	1.4	17.30	6.90	3.70	2.05	0.34
AUGUST	7.10	1.10	3.14	1.78	56.70	0.8	5.82	5.10	2.30	1.70	1.20
SEPTEMBER	3.70	0.28	1.41	0.76	53.95	0.4	2.73	1.80	1.40	0.67	0.35
ANNUAL	2250.00	0.21	31.35	175.02	558.28	100.0	106.35	4.00	1.70	1.20	0.40

06355310 BUFFALO CREEK TRIBUTARY NEAR GASCOYNE, ND

LOCATION.--Lat 46°06'40", long 103°02'20", in SE¼NE¼ sec.3, T.130 N., R.99 W., Bowman County, Hydrologic Unit 10130301, on left bank 46 ft (14 m) downstream from Chicago, Milwaukee, St. Paul, Pacific Railway bridge, and 1.8 mi (2.9 km) east of Gascoyne.

DRAINAGE AREA.--15.7 mi^2 (40.7 km^2).

SUMMARY OF WATER-QUALITY DATA COLLECTED AT PERIODIC INTERVALS DURING PERIOD OCT,1977 THROUGH SEPT,1980

WATER QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN		
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	75	MEDIAN 50	25
TEMPERATURE (DEG C)	39	25.00	0.00	7.69	7.52	13.00	7.50	0.50
STREAMFLOW, INSTANTANEOUS (CFS)	39	86.00	0.02	9.24	17.06	15.00	1.30	0.18
SPECIFIC CONDUCTANCE (MICROMHOS)	38	8000.00	555.00	3746.97	2181.63	5700.00	3750.00	1592.50
OXYGEN, DISSOLVED (MG/L)	25	13.80	3.80	8.74	2.58	10.70	9.00	6.90
OXYGEN, DISSOLVED (PERCENT SATURATION)	14	111.00	29.00	80.43	22.01	96.00	82.00	70.75
PH (UNITS)	27	8.70	7.20	8.21	0.30	8.40	8.20	8.10
CARBON DIOXIDE, DISSOLVED (MG/L AS CO2)	17	22.00	0.80	5.76	4.81	7.55	4.70	2.45
BICARBONATE (MG/L AS HCO3)	17	871.00	153.00	567.06	232.66	739.00	640.00	411.50
CARBONATE (MG/L AS CO3)	17	36.00	0.00	6.00	11.44	9.50	0.00	0.00
NITROGEN, TOTAL (MG/L AS N)	26	4.10	0.57	1.69	0.77	2.23	1.50	1.20
NITROGEN, ORGANIC, TOTAL (MG/L AS N)	7	2.30	0.74	1.39	0.51	1.60	1.30	1.00
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	7	0.33	0.08	0.19	0.09	0.30	0.18	0.11
NITROGEN, NO2+NO3, TOTAL (MG/L AS N)	26	3.00	0.00	0.25	0.62	0.14	0.05	0.01
PHOSPHORUS, TOTAL (MG/L AS P)	26	0.66	0.04	0.12	0.12	0.11	0.10	0.06
PHOSPHORUS, DISSOLVED (MG/L AS P)	26	0.14	0.00	0.04	0.03	0.06	0.03	0.02
CARBON, ORGANIC, DISSOLVED (MG/L AS C)	25	77.00	13.00	34.40	17.60	43.00	32.00	21.00
CARBON, ORGANIC, SUSPENDED (MG/L AS C)	20	13.00	0.30	2.10	2.96	2.43	0.90	0.50
HARDNESS (MG/L AS CACO3)	27	2300.00	260.00	968.89	433.91	1200.00	1000.00	700.00
HARDNESS, NONCARBONATE (MG/L CACO3)	27	1300.00	120.00	499.63	267.36	680.00	430.00	320.00
CALCIUM, DISSOLVED (MG/L AS CA)	27	180.00	30.00	113.74	42.91	150.00	113.00	80.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	27	460.00	36.00	166.56	88.86	230.00	160.00	110.00
SODIUM, DISSOLVED (MG/L AS NA)	27	1900.00	130.00	812.22	429.86	1100.00	840.00	550.00
SODIUM PERCENT	27	92.00	17.00	63.74	12.39	68.00	64.00	61.00
POTASSIUM, DISSOLVED (MG/L AS K)	27	32.00	8.10	14.93	4.76	17.00	15.00	11.00
CHLORIDE, DISSOLVED (MG/L AS CL)	27	34.00	3.90	13.80	6.68	18.00	14.00	9.10
SULFATE, DISSOLVED (MG/L AS SO4)	27	5400.00	460.00	2160.37	1126.38	2700.00	2300.00	1500.00
FLUORIDE, DISSOLVED (MG/L AS F)	27	1.50	0.10	0.79	0.33	1.00	0.80	0.60
SILICA, DISSOLVED (MG/L AS SIO2)	27	15.00	0.40	5.40	4.20	7.50	4.80	1.60
ARSENIC, DISSOLVED (UG/L AS AS)	8	5.00	1.00	2.75	1.39	4.00	2.00	2.00
ARSENIC, TOTAL (UG/L AS AS)	2	4.00	2.00					
BARIUM, DISSOLVED (UG/L AS BA)	8	100.00	0.00	50.00	46.29	100.00	50.00	0.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	2	200.00	100.00					
BERYLLIUM, DISSOLVED (UG/L AS BE)	2	3.00	3.00					
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	2	0.00	0.00					
BORON, DISSOLVED (UG/L AS B)	15	5100.00	3.60	2558.91	1452.53	3400.00	2800.00	1300.00
CHROMIUM, DISSOLVED (UG/L AS CR)	8	10.00	0.00	2.50	4.63	7.50	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	0.00	0.00					
COBALT, DISSOLVED (UG/L AS CO)	2	8.00	8.00					
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	2	1.00	0.00					
COPPER, DISSOLVED (UG/L AS CU)	8	25.00	0.00	7.88	10.70	20.00	3.00	1.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	2	6.00	2.00					
IRON, DISSOLVED (UG/L AS FE)	15	400.00	0.60	100.71	97.24	140.00	70.00	40.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	220.00	100.00					
MANGANESE, DISSOLVED (UG/L AS MN)	10	2100.00	1.70	335.17	628.43	262.50	135.00	67.50
MOLYBDENUM, DISSOLVED (UG/L AS MO)	8	25.00	0.00	7.38	11.01	19.75	2.50	0.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	2	3.00	3.00					
NICKEL, DISSOLVED (UG/L AS NI)	2	1.00	1.00					
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	21.00	0.00					
VANADIUM, DISSOLVED (UG/L AS V)	2	8.00	8.00					
ZINC, DISSOLVED (UG/L AS ZN)	8	40.00	8.00	21.38	10.27	28.25	20.00	12.50
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	30.00	20.00					
ALUMINUM, DISSOLVED (UG/L AS AL)	8	90.00	0.00	28.75	29.00	37.50	30.00	2.50
LITHIUM, DISSOLVED (UG/L AS LI)	8	210.00	40.00	101.88	53.98	132.50	95.00	58.75
LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)	2	140.00	50.00					
SELENIUM, DISSOLVED (UG/L AS SE)	8	1.00	0.00	0.38	0.52	1.00	0.00	0.00
SELENIUM, TOTAL (UG/L AS SE)	2	0.00	0.00					
SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	27	9280.00	848.00	3893.30	1905.66	5040.00	4250.00	2710.00
SOLIDS, DISSOLVED (TONS PER AC-FT)	27	12.60	1.15	5.29	2.59	6.85	5.78	3.69
MERCURY, DISSOLVED (UG/L AS HG)	8	0.20	0.00	0.08	0.09	0.18	0.05	0.00
MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	2	0.20	0.00					
SEDIMENT, SUSPENDED (MG/L)	26	232.00	2.00	69.65	63.25	122.00	46.00	11.00
SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	26	9.40	0.00	0.60	1.89	0.18	0.07	0.02

SUMMARY OF DAILY STREAMFLOW DATA FOR PERIOD OCT,1977 THROUGH SEPT,1980

MONTH	DESCRIPTIVE STATISTICS					PERCENT OF DAYS WHICH HAD VALUES LESS THAN OR EQUAL TO THOSE SHOWN IN CFS				
	MAXIMUM CFS	MINIMUM CFS	MEAN CFS	STANDARD DEVIATION CFS	COEFFICIENT OF VARIATION	PERCENT OF ANNUAL RUNOFF	95	75	MEDIAN 50	25	5
OCTOBER	15.00	0.02	1.13	2.50	222.14	5.5	8.46	0.62	0.35	0.13	0.06
NOVEMBER	11.00	0.06	0.54	1.62	298.03	2.6	0.95	0.35	0.21	0.10	0.06
DECEMBER	0.40	0.00	0.12	0.14	110.69	0.6	0.36	0.28	0.03	0.00	0.00
JANUARY	0.27	0.00	0.02	0.05	364.32	0.1	0.20	0.00	0.00	0.00	0.00
FEBRUARY	0.00	0.00	0.00	0.00	.	0.0	0.00	0.00	0.00	0.00	0.00
MARCH	80.00	0.00	10.86	16.61	152.94	53.1	50.00	15.00	2.60	0.01	0.00
APRIL	16.00	0.08	3.93	3.76	96.07	18.6	13.45	5.95	2.70	0.97	0.10
MAY	28.00	0.00	2.30	3.56	154.95	11.2	7.92	2.85	1.70	0.09	0.00
JUNE	5.60	0.00	0.97	1.07	110.21	4.6	3.29	1.50	0.54	0.20	0.00
JULY	3.80	0.00	0.43	0.60	137.85	2.1	1.43	0.70	0.21	0.00	0.00
AUGUST	2.00	0.00	0.14	0.26	190.65	0.7	0.52	0.19	0.00	0.00	0.00
SEPTEMBER	1.60	0.00	0.19	0.34	179.81	0.9	1.24	0.23	0.04	0.00	0.00
ANNUAL	80.00	0.00	1.74	5.94	342.08	100.0	8.41	0.90	0.16	0.00	0.00