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Statistical Summaries of Water-Quality Data for Selected Streamflow-Gaging Stations in the Red River of the North Basin, North Dakota, Minnesota, and South Dakota

By Kathleen M. Macek-Rowland and Valerie M. Dressler

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Abstract

The quantity and quality of current and future water resources in the Red River of the North Basin in North Dakota, Minnesota, and South Dakota are concerns of people who reside within the basin. Additional water resources are needed because of recent growth in population, industry, and agriculture. How the management of current and future water-resources will impact water quality within the basin is a critical issue. Water-quality data, particularly for surface-water sources, will help water-resources managers make decisions about current and future water resources in the Red River of the North Basin. Statistical summaries of water-quality data for 43 streamflow-gaging stations in the Red River of the North Basin in North Dakota, Minnesota, and South Dakota are presented in this report. Statistical summaries include sample size, maximum, minimum, mean, and values for the 95th, 75th, 50th, 25th, and 5th percentiles.

INTRODUCTION

The Red River of the North, located in the north-central plains of the United States, plays an important role in regional development. The Red River of the North and its tributaries are used for water supply, irrigation, industry, livestock, and recreation. Additional water resources are needed because of recent growth in population, industry, and agriculture in the basin. The Red River of the North and its tributaries are affected by the quantity and quality of water within the basin. Therefore, the quantity and quality of current and future water resources in the Red River of the North Basin in North Dakota, Minnesota, and South Dakota are concerns of people who reside within the basin. How the management of current and future water-resources will impact water quality within the basin is a critical issue.

The Dakota Water Resources Act was passed by the U.S. Congress on December 15, 2000. The Act authorized the Secretary of the Interior to conduct a comprehensive study of the future water-quantity and quality needs of the Red River of the North Basin in North Dakota and the possible options to meet those needs. To provide needed information for the comprehensive study, the U.S. Geological Survey (USGS) conducted a study in cooperation with the Bureau of Reclamation. The study will provide water-quantity and quality information needed for the comprehensive study.

This report presents statistical summaries of water-quality data collected at selected USGS streamflow-gaging stations in the Red River of the North Basin in North Dakota, Minnesota, and South Dakota. Statistical summaries are provided for 43 streamflow-gaging stations (table 1). The data will help water-resources managers make decisions about current and future water resources in the Red River of the North Basin.

DESCRIPTION OF THE RED RIVER OF THE NORTH BASIN

The Red River of the North begins at the confluence of the Ottertail and Bois de Sioux Rivers in Wahpeton, N. Dak., and Breckenridge, Minn. (fig. 1). The river flows northward for about 394 miles to the United States-Canadian boundary. From the international boundary, the Red River of the North flows north about 155 miles and discharges into Lake Winnipeg. Drainage area at the Emerson, Manitoba, gaging station, which is about 0.8 mile downstream from the international boundary, is about 40,200 square miles (U.S. Geological Survey, 2002, p. 184). Excluding the Assiniboine River Basin, an additional 5,000 square miles of drainage area is located in Canada. The basin is relatively flat and has a shallow river channel. The flat portions of the basin were caused by sediment deposition from an ancient glacial lake, Lake Agassiz, that existed between 7,000 to 12,000 years ago.

Table 1. Selected streamflow-gaging stations in the Red River of the North Basin, North Dakota, Minnesota, and South Dakota

[End dates are considered preliminary; water-quality data may not have been collected continuously for each station]

Map and supplement number	Gaging statinn number	Gaging station name	Water-quality period of record	Drainage area (square miles)	Latitude and longitude (degrees, minutes, and seconds)
1	05046000	Ottertail River below Orwell Dam near Fergus Falls, Minn.	October 1960 through August 1995[1]	1,740	4612350961105
2	05050000	Bois de Sioux River near White Rock, S. Dak.	November 1963 through November 1966[1] June 1989 through November 1995[2]	1,160	4551450963425
3	05051300	Bois de Sioux River near Doran, Minn.	March 1993 through August 1995[1]	1,880	4609080963444
4	05051500	Red River of the North at Wahpeton, N. Dak.	October 1971 through April 2001[3] August 1992 through August 1997[1]	4,010	4615550963540
5	05051522	Red River of the North at Hickson, N. Dak.	November 1975 through April 2001[3]	4,300	4639350964744
6	05053000	Wild Rice River near Abercrombie, N. Dak.	June 1966 through April 2001[3]	2,080	4628050964700
7	05054000	Red River of the North at Fargo, N. Dak.	May 1949 through July 2001[3]	6,800	4651400964700
8	05054020	Red River of the North below Fargo, N. Dak.	July 1969 through September 1986[3] August 1992 through July 2001[1]	6,820	4655500964705
9	05054500	Sheyenne River above Harvey, N. Dak.	October 1971 through July 2001[3]	424	4742100995655
10	05056000	Sheyenne River near Warwick, N. Dak.	January 1951 through July 2001[3]	2,070	4748200984257
11	05057000	Sheyenne River near Cooperstown, N. Dak.	October 1959 through April 2001[3]	6,470	4725580980138
12	05057200	Baldhill Creek near Dazey, N. Dak.	October 1971 through April 2001[3]	691	4713450980728
13	05057500	Lake Ashtabula at Baldhill Dam, N. Dak.	February 1960 through March 2001[3]	7,470	4702000980500
14	05058000	Sheyenne River below Baldhill Dam, N. Dak.	June 1959 through July 2001[3]	7,470	4701560980508
15	05058500	Sheyenne River at Valley City, N. Dak.	November 1971 through April 2001[3]	7,810	4654500980030
16	05058700	Sheyenne River at Lisbon, N. Dak.	August 1956 through April 2001[3]	8,190	4626490974044
17	05059000	Sheyenne River near Kindred, N. Dak.	October 1971 through April 2001[3]	8,800	4637540970001
18	05059500	Sheyenne River at West Fargo, N. Dak.	September 1969 through July 2001[3]	8,870	4653280965424
19	05059700	Maple River near Enderlin, N. Dak.	October 1971 through April 2001[3]	843	4637180973425
20	05060100	Maple River below Mapleton, N. Dak.	March 1995 through April 2001[3]	1,480	4654190970338
21	05060500	Rush River at Amenia, N. Dak.	November 1971 through August 2000[3]	116	4701000971250
22	05062000	Buffalo River near Dilworth, Minn.	April 1962 through March 1991[1]	975	4657400963940
23	05062200	Elm River near Kelso, N. Dak.	February 1981 through April 1989[3]	194	4717300970650

Table 1. Selected streamflow-gaging stations in the Red River of the North Basin, North Dakota, Minnesota, and South Dakota--Continued

[End dates are considered preliminary; water-quality data may not have been collected continuously for each station]

Map and supplement number	Gaging station number	Gaging station name	Water-quality period of record	Drainage area (square miles)	Latitude and longitude (degrees, minutes, and seconds)
24	05062500	Wild Rice River at Twin Valley, Minn.	September 1974 through August 1998[1]	934	4716000961440
25	05064000	Wild Rice River at Hendrum, Minn.	July 1978 through September 1999[1]	1,560	4716050964750
26	05064500	Red River of the North at Halstad, Minn.	July 1961 through July 2001[3] October 1992 through June 1995[1]	21,800	4721100965050
27	05066500	Goose River at Hillsboro, N. Dak.	September 1969 through April 2001[3]	1,203	4724340970339
28	05067500	Marsh River near Shelly, Minn.	July 1975 through September 2000[3]	220	4724450964550
29	05069000	Sand Hill River at Climax, Minn.	November 1966 through September 2000[3]	420	4736430964852
30	05074000	Lower Red Lake near Red Lake, Minn.	May 1962 through April 1965[3]	1,950	4757270951634
31	05075000	Red Lake River at High Landing near Goodridge, Minn.	April 1979 through September 2000[1]	2,300	4802340954828
32	05078500	Clearwater River at Red Lake Falls, Minn.	August 1992 through March 2001[1]	1,380	4753150961625
33	05079000	Red Lake River at Crookston, Minn.	April 1962 through September 2000[1]	5,270	4746320963633
34	05082500	Red River of the North at Grand Forks, N. Dak.	June 1949 through July 2001[2] September 1992 through April 1997[1]	30,100	4755380970134
35	05083000	Turtle River at Manvel, N. Dak.	October 1971 through October 1991[3]	613	4804430971103
36	05085000	Forest River at Minto, N. Dak.	October 1971 through April 2001[3]	740	4816100972210
37	05085500	Snake River at Warren, Minn.	April 1979[1]	175	4811500964645
38	05087500	Middle River at Argyle, Minn.	April 1968 through September 2000[1]	255	4820270964902
39	05090000	Park River at Grafton, N. Dak.	September 1969 through April 2001[3]	695	4825290972442
40	05092000	Red River of the North at Drayton, N. Dak.	October 1971 through April 2001[3]	34,800	4834200970850
41	05100000	Pembina River at Neche, N. Dak.	October 1971 through April 2001[3]	3,410	4859200973305
42	05101000	Tongue River at Akra, N. Dak.	October 1971 through April 2001[3]	160	4846420974443
43	05102500	Red River of the North at Emerson, Manitoba	July 1974 through July 2001[3] October 1992 through March 2000[1]	40,200	4900300971240

[1]Water-quality data from U.S. Geological Survey data base at Mounds View, Minn.
[2]Water-quality data from U.S. Geological Survey data base at Rapid City, S. Dak.,
[3]Water-quality data from U.S. Geological Survey data base at Bismarck, N. Dak.

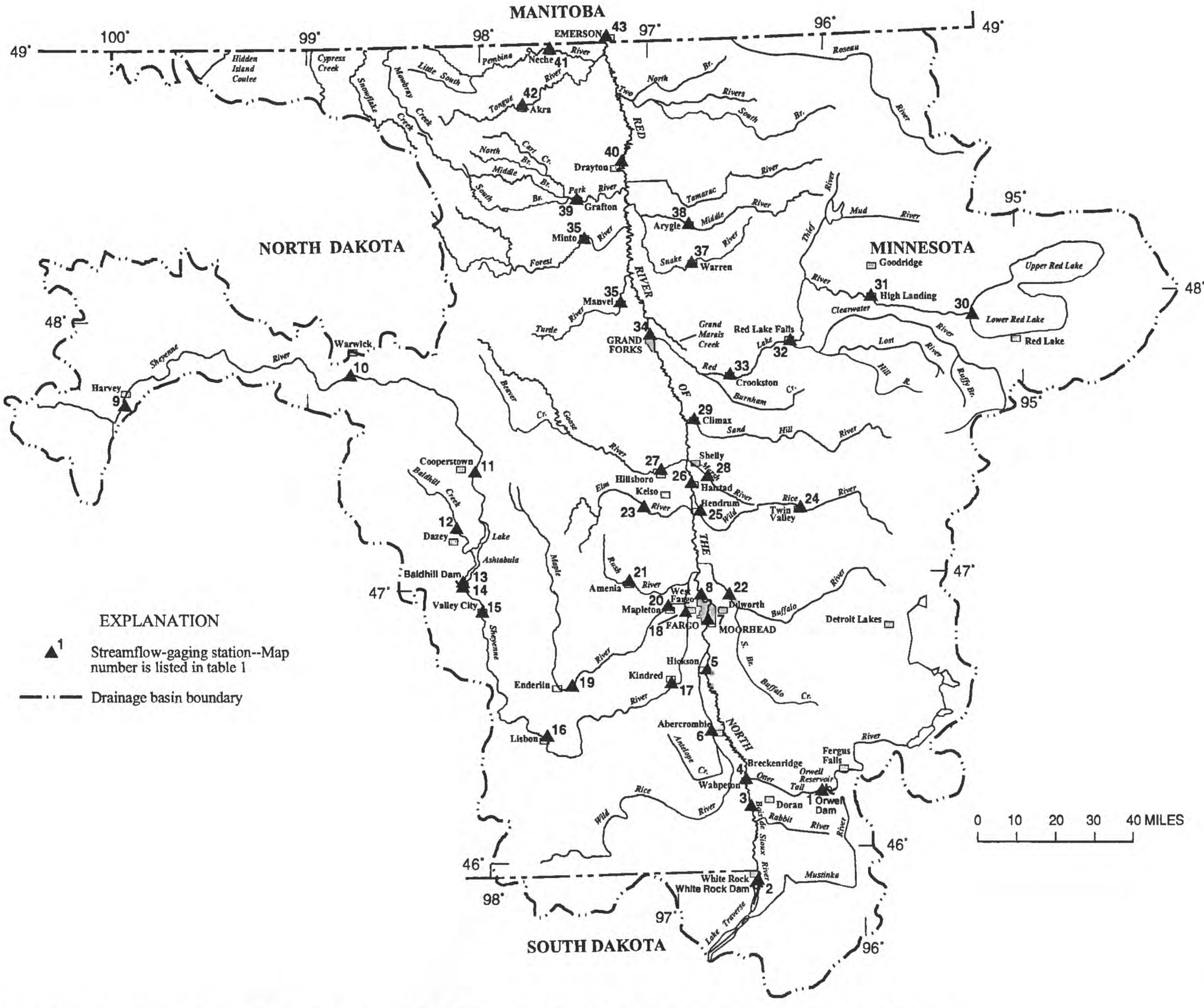

Figure 1. Location of selected streamflow-gaging stations in the Red River of the North Basin, North Dakota, Minnesota, and South Dakota.

In the Red River of the North Basin, streamflow is composed of base flow from ground-water seepage and of runoff from within the basin. Streamflow throughout the basin can vary from virtually no flow in dry years to extensive flooding in wet years. During the most recent dry period, 1988-92, smaller tributaries to the Red River of the North had no flow and the Red River of the North had daily mean flows of less than 100 cubic feet per second at Fargo, N. Dak. Daily mean flows for the Red River of the North at Emerson, Manitoba, ranged from 0.97 cubic feet per second in 1937 to 133,000 cubic feet per second in the spring of 1997. The variability of flows, particularly during extremely dry and wet periods, can impact the quantity and quality of surface-water resources within the Red River of the North Basin. During extremely dry and wet periods, water-quality monitoring is critical to water-resources managers.

Water quality in surface-water sources is affected by the combination of ground water and runoff and by the stream channel composition. The water quality also is affected by water lost through evaporation and through transpiration from vegetation. The natural factors that affect water quality may be coupled with anthropogenic factors caused by people living and working within the basin. Some anthropogenic factors include the use of agricultural chemicals, the release of wastewater into rivers or streams by industries or water treatment facilities, and the changes made to land surface topography.

STATISTICAL SUMMARIES

Statistical summaries were compiled for water-quality data that were collected at 43 streamflow-gaging stations in North Dakota, Minnesota, and South Dakota. Streamflow-gaging stations were selected on the basis of their location, availability of data, and period of record. Selected streamflow-gaging stations, corresponding map numbers, gaging-station numbers, water-quality periods of record, drainage areas, and latitudes and longitudes are listed in table 1. An eight-digit number (e.g., 05051500) has been assigned to each streamflow-gaging station using the downstream-order numbering system of the USGS. The downstream-order number is unique to each station and is used to enter, store, and retrieve data from USGS data bases. The statistical summaries are given in supplemental format at the end of this report (supp. 1-43).

Statistical summaries were developed from water-quality data stored in the U.S. Geological Survey's National Water Information System (NWIS) data base as of October 2001. Water-quality data reported in the statistical tables were collected by USGS personnel and analyzed by USGS laboratories according to established data collection and analysis standards and methodologies of the USGS. Water-quality data for selected streamflow-gaging stations in this report may be obtained from the USGS district office in the state that the streamflow-gaging station is located in or from the NWIS data base maintained on each district's individual web site (table 2). Because of various data-collection programs and projects, additional water-quality data collected by USGS personnel or personnel from other agencies and analyzed by non-USGS laboratories may be included in the USGS water-quality data base. However, the water-quality data analyzed by non-USGS laboratories were not retrieved for this report but may be obtained at the USGS offices in North Dakota, Minnesota, and South Dakota or at other offices and agencies involved in water-resources monitoring in the Red River of the North Basin (table 2).

Descriptive statistics include: (1) the five-digit parameter code that is used to identify the corresponding parameter or constituent in the USGS National Water Information System and the U.S. Environmental Protection Agency Data Storage and Retrieval System; (2) the sample size, which is the number of data values from samples used in computing the statistics for a property or constituent; (3) the maximum, which is the largest data value in a group of data values from the sample; (4) the minimum, which is the smallest data value in a group of data values from the sample; and (5) the mean, which is the sum of individual data values in a sample size divided by the sample size number. Sample size will vary for each property and constituent depending on the data collection programs or projects involved with the station. Because the properties and constituents vary from station to station, a full descriptive term for each property and constituent is in a list at the beginning of the statistical summaries. Reference to this list may be needed when reviewing the individual properties and constituents for each station in order to get a better understanding of the type of data collected at each location. Several of the more common properties and constituents are the same at many streamflow-gaging stations. Common sources and environmental significance of the selected water-quality properties and constituents are given in table 3 (Berkas, W.R., 1993, p. 429-436).

Table 2. Selected sources for water-quality data in the Red River of the North Basin, North Dakota, Minnesota, and South Dakota

[Internet addresses accessed on October 2, 2002; USGS, U.S. Geological Survey; STORET, storage and retrieval; NWIS; National Water Information System]

Name of agency or contact	Type of water-quality data available
North Dakota	
U.S. Geological Survey North Dakota District 821 East Interstate Avenue Bismarck, ND 58503-1199 http://nd.water.usgs.gov/	USGS water-quality data for surface- and ground-water resources in North Dakota is stored on a data base accessed through the Internet. Contact the USGS office in Bismarck, N. Dak., for more site-specific data information. http://waterdata.usgs/nd/nwis/qw
North Dakota Department of Health 1200 Missouri Avenue Bismarck, ND 58502-5520 http://www.health.state.nd.us/ndhd/environ/wq/index.htm	State water-quality standards and water-quality data from various surface- and ground-water monitoring programs. Contact agency for more site-specific data information.
North Dakota State Water Commission 900 East Boulevard Avenue Bismarck, ND 58505-0850 http://www.swc.state.nd.us/dataresources.html	Provides access to well data that is available in North Dakota. This includes site information, lithologic data, water-level data, and water chemistry. Contact agency for more site-specific data information.
Minnesota	
U.S. Geological Survey Minnesota District 2280 Woodale Drive Mounds View, MN 55112 http://mn.usgs.gov/	USGS water-quality data for surface- and ground-water resources in Minnesota is stored on a data base accessed through the Internet. Contact the USGS office in Mounds View, Minn., for more site-specific data information. http://waterdata.usgs/mn/nwis/qw
Minnesota Pollution Control Agency 520 Lafayette Road St. Paul, MN 55155-4194 http://www.pca.state.mn.us/water/basins/redriver/index.html	Water-quality standards and classifications, watershed stream water-quality assessments, and water quality for lakes. Contact agency for more site-specific data information.
South Dakota	
U.S. Geological Survey South Dakota District 1608 Mt. View Road Rapid City, SD 57702 http://sd.water.usgs.gov/	USGS water-quality data for surface- and ground-water resources in South Dakota is stored on a data base accessed through the Internet. Contact the USGS office in Rapid City, S. Dak., for more site-specific data information. http://waterdata.usgs/sd/nwis/qw
Canada	
Manitoba Conservation Water Quality Management Section 123 Main Street, Suite 160 Winnipeg, MB, Canada R3C 1A5 http://www.gov.mb.ca/natres/watres/water_quality.html	Manitoba water-quality standards. Contact agency for type of water-quality data available at Canadian sites.
Environment Canada Chief, Ecological Research Division Room 300, 2365 Albert Street Regina, SK, Canada S4P 4K1 http://www.pnr-rpn.ec.gc.ca/water/science	Information on water-quality monitoring and aquatic-quality science. Contact agency for more site-specific data information.

Table 2. *Selected sources for water-quality data in the Red River of the North Basin, North Dakota, Minnesota, and South Dakota--Continued*

Internet addresses accessed on October 2, 2002; USGS, U.S. Geological Survey; STORET, storage and retrieval; NWIS; National Water Information System]

Name of agency or contact	Type of water-quality data available
Colorado	
Environmental Protection Agency Region 8 999 18th Street, Suite 300 Denver, CO 80202-2466 http://www.epa.gov/region08/water/	Maintains two data bases populated by field water monitoring results from various offices and agencies in the United States. STORET Legacy Data Center holds data prior to 1999 and Modernized STORET receives new data on a regular basis. http://www.epa.gov/STORET/dbtop.html Note: USGS data have been removed from STORET files and are maintained on the USGS NWIS data base.

Table 3. Common sources and environmental significance of selected water-quality properties and constituents

[Modified from Berkas, W.R., 1993, p. 429-436]

Property or constituent	Common sources	Environmental significance
Specific conductance	A measure of the electrical conductivity of water; varies with the quantity of dissolved solids and is used to approximate the dissolved-solids content.	Dissolved solids can cause water to be unsuitable for public supply, agriculture, and industry; can harm aquatic organisms.
pH	A measure of hydrogen-ion activity (acidity or alkalinity); can be affected by geologic setting, biological activity, municipal and industrial wastewater discharge, and atmospheric deposition.	Acidic water can corrode pipes and equipment; can cause the release of lead and other metals from distribution systems to drinking water; can affect wastewater-treatment processes and taste of water. Alkaline water also can be adverse to use through scale-deposition, particularly in hot water heaters and boilers.
Turbidity	Caused by natural or human-induced suspended matter; components include clay, silt, fine organic and inorganic matter, soluble colored organic compounds, and microscopic aquatic organisms.	Can be detrimental to aquatic organisms; can cause water to be unsuitable for recreation, industry, and public supply.
Dissolved oxygen	Introduced from the atmosphere; also a by-product of aquatic plants.	Necessary for aquatic life; deficiency can result from assimilation of organic wastes of rapid growth and decay of algae.
Fecal coliform bacteria	Sources include effluent from sewage-treatment plants and runoff from pastures, feedlots, and urban areas.	Presence indicates contamination of water by wastes from humans or other warm-blooded animals.
Fecal streptococcal bacteria	Sources include effluent from sewage-treatment plants and runoff from pastures, feedlots, and urban areas.	Presence indicates contamination of water by wastes from humans or other warm-blooded animals.
Hardness	A characteristic of water primarily related to the concentrations of calcium and magnesium.	Hardness causes the formation of an insoluble residue when used with soap and also causes scale in vessels in which water has been allowed to evaporate.
Sodium	Occurs in some igneous rocks, evaporite deposits, and sediment; also occurs in oil-field mines, road deicers, and irrigation return flow.	Can cause water to be unsuitable for public supply, agriculture, and industry.
Alkalinity	A measure of the quantity of acid-neutralizing substances; can be affected by geologic setting, industrial wastewater discharge, waste gases, and runoff from surface mining.	Sufficiently alkaline water can be unsuitable for drinking and some agricultural and industrial uses.
Sulfate	Occurs in some rocks; also occurs in mine runoff, industrial wastewater discharge, and atmospheric deposition.	Concentrations exceeding a natural, background level indicate contamination from human activity; in excess, can cause water to be unsuitable for public supply; can harm aquatic organisms.
Chloride	Occurs in some rocks and ground-water discharge; also occurs in road deicers, industrial and urban wastewater discharge, and atmospheric deposition.	Concentrations exceeding a natural, background level indicate contamination from human activities; can cause water to be unsuitable for public supply, agriculture, and industry; can harm aquatic organisms.
Silica	Is derived from the decomposition of silicate minerals.	Can cause water to be unsuitable for some industrial applications such as boiler feed water; forms hard scale.

Table 3. Common sources and environmental significance of selected water-quality properties and constituents--Continued

[Modified from Berkas, W.R., 1993, p. 429-436]

Property or constituent	Common sources	Environmental significance
Dissolved solids	A result of rock weathering; also in agricultural runoff and industrial discharge.	In excess, can cause water to be unsuitable for public supply, agriculture, and industry; can harm aquatic organisms.
Nitrite plus nitrate	Nonpoint sources are agricultural and urban runoff; a major point source is wastewater discharge.	Plant nutrient that, in excess, can cause algal blooms and excessive growth of higher aquatic plants in bodies of water; can cause water to be unsuitable for public supply.
Total nitrate	Nonpoint sources are agricultural and urban runoff; a major point source is wastewater discharge.	Plant nutrient that, in excess, can cause algal blooms and excessive growth of higher aquatic plants in bodies of water; can cause water to be unsuitable for public supply.
Ammonia	Nonpoint sources are agricultural and urban runoff; a major point source is wastewater discharge.	Plant nutrient that, in excess, can cause algal blooms and excessive growth of higher aquatic plants in bodies of water; can cause water to be unsuitable for public supply. Toxic to fish and other forms of aquatic life.
Ammonia plus organic nitrogen	Nonpoint sources are agricultural and urban runoff; a major point source is wastewater discharge.	Plant nutrient that, in excess, can cause algal blooms and excessive growth of higher aquatic plants in bodies of water; can cause water to be unsuitable for public supply.
Phosphorus	Occurs in some rocks and sediments; also occurs in runoff and seepage from phosphate-rock mines, agricultural and urban runoff, and industrial and municipal wastewater discharge.	Plant nutrient that, in excess quantity, can cause algal blooms and excessive growth of higher aquatic plants in bodies of water.
Phosphate	Occurs in some rocks and sediments; also occurs in runoff and seepage from phosphate-rock mines, agricultural and urban runoff, and industrial and municipal wastewater discharge.	Plant nutrient that, in excess quantity, can cause algal blooms and excessive growth of higher aquatic plants in bodies of water.
Barium	Occurs in some rocks; also occurs in mine runoff and wastewater discharge.	Toxic in larger than trace concentrations; can cause water to be unsuitable for public supply.
Iron	Occurs from the decomposition of some rocks; also occurs in mine runoff.	Can affect the suitability of water for public and industrial water supply and can harm aquatic organisms.
Arsenic	Occurs in some rocks and soils; used in some pesticides; associated with geothermal activities; can be leached from arid lands by irrigation.	Toxic in larger than trace concentrations; can cause water to be unsuitable for public supply; can harm aquatic organisms.
Selenium	Occurs in some rocks and soils; can be leached from arid lands by irrigation.	Toxic in larger than trace concentrations; can cause water to be unsuitable for public supply; can harm aquatic organisms.
Suspended sediment	A result of rock erosion; also induced by disturbances of land cover because of fires, floods, and human activities such as mining, logging, construction, and agriculture.	Can be detrimental to aquatic organisms; can fill reservoirs and impair recreational use of water.

Values for the 95th, 75th, 50th (median), 25th, and 5th percentiles also are included in the statistical tables. The percentiles are the percentage of samples in which the values were less than or equal to those shown in the statistical table. The 50th percentile, or median, represents the middle value of an uneven sample number or the mean of two middle values of an even sample number. Only maximum and minimum values are given when there is more than one but less than five values for a property or constituent. A property or constituent may have more than five samples but no other statistics because the data for that property or constituent are calculated values, not actual values collected at a station. Calculated values need actual values from certain properties and/or constituents in order to be calculated. The calculated value cannot be computed and will show only the number of samples if one or more of the properties or constituents needed for the calculation are missing values, if one or more of the constituents are censored (less than a predetermined value), or if a property or constituent is missing or was not collected. USGS water-quality data may be obtained from the USGS Water-Quality Home Page on the Internet at http://nwql.usgs.gov (accessed on September 23, 2002).

REFERENCES

Berkas, W.R., 1993, North Dakota Stream Water Quality *in* Paulson, R.W., Chase, E.B., Williams, J.S., and Moody, D.W., comp., National Water Summary 1990-91, Hydrologic Events and Stream Water Quality: U.S. Geological Survey Water-Supply Paper 2400, p. 429-436.

U.S. Geological Survey, 2002, Water resources data for North Dakota, water year 2001: U.S. Geological Survey Water Data Report, ND-01-1, 467 p.

List of parameter codes and corresponding property or constituent

Parameter code	Property or constituent
00010	Temperature, water (degrees Celsius)
00020	Temperature, air (degrees Celsius)
00025	Barometric pressure (millimeters of Hg)
00060	Discharge (cubic feet per second)
00061	Discharge, instantaneous (cubic feet per second)
00065	Gage height (feet)
00070	Turbidity (Jackson candle unit)
00076	Turbidity (nephelometric turbidity unit)
00077	Transparency, secchi disk (inches)
00080	Color (platinum cobalt scale)
00094	Specific conductance, field (microsiemens per centimeter at 25 degrees Celsius)
00095	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)
00120	Precipitation, cumulative at given time, location 4 (inches)
00300	Oxygen, dissolved (milligrams per liter)
00301	Oxygen, dissolved (percent of saturation)
00310	Biochemical oxygen demand, 5-day at 20 degrees Celsius (milligrams per liter)
00340	Chemical oxygen demand, high level (milligrams per liter)
00400	pH, water, whole, field (standard units)
00403	pH, water, whole, laboratory (standard units)
00405	Carbon dioxide, dissolved (milligrams per liter as CO_2)
00410	Acid neutralizing capacity (alkalinity), fixed endpoint titration, field (milligrams per liter as $CaCO_3$)
00417	Acid neutralizing capacity (alkalinity), water, unfiltered, fixed endpoint titration, lab (milligrams per liter as $CaCO_3$)
00418	Alkalinity, water, dissolved, total, fixed (milligrams per liter as $CaCO_3$)
00419	Acid neutralizing capacity (alkalinity), water, unfiltered, incremental titration, field (milligrams per liter as $CaCO_3$)
00431	Acid neutralizing capacity (alkalinity), water, unfiltered (milligrams per liter as $CaCO_3$)
00435	Acidity, total (milligrams per liter as $CaCO_3$)
00440	Bicarbonate, water, whole, fixed endpoint titration, field (milligrams per liter as $CaCO_3$)
00445	Carbonate, water, whole, fixed endpoint titration, field (milligrams per liter as $CaCO_3$)
00447	Carbonate, water, unfiltered, incremental titration, field (milligrams per liter as $CaCO_3$)
00450	Bicarbonate, water, unfiltered, incremental titration, field (milligrams per liter as $CaCO_3$)
00452	Carbonate, water, dissolved, incremental (milligrams per liter as $CaCO_3$)
00453	Bicarbonate, water, dissolved, incremental, field (milligrams per liter as HCO_3)
00515	Residue, total filterable, dried at 105 degrees Celsius (milligrams per liter)
00520	Residue, volatile, filterable (milligrams per liter)
00530	Residue, total, nonfilterable (milligrams per liter)
00540	Residue, fixed, nonfilterable (milligrams per liter)
00572	Biomass, periphyton, ash weight (grams per square meter)
00573	Biomass, periphyton, dry weight, total (grams per square meter)
00600	Nitrogen, total (milligrams per liter as N)
00602	Nitrogen, dissolved (milligrams per liter as N)
00603	Nitrogen, total, in bottom material (milligrams per kilogram as N)
00605	Nitrogen, organic, total (milligrams per liter as N)
00607	Nitrogen, organic, dissolved (milligrams per liter as N)
00608	Nitrogen, ammonia, dissolved (milligrams per liter as N)
00610	Nitrogen, ammonia, total (milligrams per liter as N)
00613	Nitrogen, nitrite, dissolved (milligrams per liter as N)
00615	Nitrogen, nitrite, total (milligrams per liter as N)
00618	Nitrogen, nitrate, dissolved (milligrams per liter as N)
00620	Nitrogen, nitrate, total (milligrams per liter as N)
00621	Nitrogen, nitrate, total, in bottom material (milligrams per kilogram as N)

List of parameter codes and corresponding property or constituent--Continued

Parameter code	Property or constituent
00623	Nitrogen, ammonia plus organic, dissolved (milligrams per liter as N)
00624	Nitrogen, ammonia plus organic, suspended, total (milligrams per liter as N)
00625	Nitrogen, ammonia plus organic, total (milligrams per liter as N)
00626	Nitrogen, ammonia plus organic, total, in bottom material, dry weight (milligrams per kilogram as N)
00630	Nitrogen, nitrite plus nitrate, total (milligrams per liter as N)
00631	Nitrogen, nitrite plus nitrate, dissolved (milligrams per liter as N)
00633	Nitrogen, nitrite plus nitrate, total, in bottom material, dry weight (milligrams per kilogram as N)
00650	Phosphate, total (milligrams per liter as PO_4)
00660	Phosphate, orthophosphate, dissolved (milligrams per liter as PO_4)
00665	Phosphorus, total (milligrams per liter as P)
00666	Phosphorus, dissolved (milligrams per liter as P)
00668	Phosphorus, total, in bottom material, dry weight (milligrams per kilogram as P)
00669	Phosphorus, hydrolyzable, total (milligrams per liter as P)
00670	Phosphorus, organic, total (milligrams per liter as P)
00671	Phosphorus, orthophosphate, dissolved (milligrams per liter as P)
00672	Phosphorus, hydrolyzable, dissolved (milligrams per liter as P)
00673	Phosphorus, organic, dissolved (milligrams per liter as P)
00677	Phosphorus, hydrolyzable plus ortho, dissolved (milligrams per liter as P)
00678	Phosphorus, hydrolyzable plus ortho, total (milligrams per liter as P)
00680	Carbon, organic, total (milligrams per liter as C)
00681	Carbon, organic, dissolved (milligrams per liter as C)
00687	Carbon, organic, total, in bottom material (milligrams per liter as C)
00689	Carbon, organic, suspended, total (milligrams per liter as C)
00690	Carbon, inorganic plus organic, total (milligrams per liter as C)
00720	Cyanide, total (milligrams per liter as Cn)
00723	Cyanide, dissolved (milligrams per liter as Cn)
00900	Hardness, total (milligrams per liter as $CaCO_3$)
00902	Noncarbonate hardness, water, whole, total, field (milligrams per liter as $CaCO_3$)
00903	Noncarbonate hardness, water, whole, total, laboratory (milligrams per liter as $CaCO_3$)
00904	Hardness, noncarbonate water dissolved, field (milligrams per liter as $CaCO_3$)
00905	Hardness, noncarbonate water dissolved, laboratory (milligrams per liter as $CaCO_3$)
00915	Calcium, dissolved (milligrams per liter as Ca)
00918	Calcium, total, recoverable (milligrams per liter as Ca)
00921	Magnesium, total, recoverable (milligrams per liter as Mg)
00923	Sodium, total, recoverable (milligrams per liter as Na)
00925	Magnesium, dissolved (milligrams per liter as Mg)
00930	Sodium, dissolved (milligrams per liter as Na)
00931	Sodium adsorption ratio (SAR)
00932	Sodium (percent)
00933	Sodium plus potassium, dissolved (milligrams per liter as Na)
00935	Potassium, dissolved (milligrams per liter as K)
00939	Potassium, total, recoverable (milligrams per liter as K)
00940	Chloride, dissolved (milligrams per liter as Cl)
00945	Sulfate, dissolved (milligrams per liter as SO_4)
00950	Fluoride, dissolved (milligrams per liter as F)
00951	Fluoride, total (milligrams per liter as F)
00955	Silica, dissolved (milligrams per liter as SiO_2)
00998	Beryllium, total, recoverable (micrograms per liter as Be)
00999	Boron, total, recoverable (micrograms per liter as B)
01000	Arsenic, dissolved (micrograms per liter as As)

List of parameter codes and corresponding property or constituent--Continued

Parameter code	Property or constituent
01001	Arsenic, suspended, total (micrograms per liter as As)
01002	Arsenic, total (micrograms per liter as As)
01003	Arsenic, total, in bottom material (micrograms per gram as As)
01005	Barium, dissolved (micrograms per liter as Ba)
01006	Barium, suspended, recoverable (micrograms per liter as Ba)
01007	Barium, total (micrograms per liter as Ba)
01009	Barium, total, recoverable (micrograms per liter as Ba)
01010	Beryllium, dissolved (micrograms per liter as Be)
01012	Beryllium, total (micrograms per liter as Be)
01020	Boron, dissolved (micrograms per liter as B)
01022	Boron, total (micrograms per liter as B)
01025	Cadmium, dissolved (micrograms per liter as Cd)
01026	Cadmium, suspended (micrograms per liter as Cd)
01027	Cadmium, total (micrograms per liter as Cd)
01028	Cadmium, total, in bottom material (micrograms per gram as Cd)
01029	Chromium, total, in bottom material (micrograms per gram as Cr)
01030	Chromium, dissolved (micrograms per liter as Cr)
01031	Chromium, suspended (micrograms per liter as Cr)
01032	Chromium, hexavalent (micrograms per liter as Cr)
01034	Chromium, total (micrograms per liter as Cr)
01035	Cobalt, dissolved (micrograms per liter as Co)
01036	Cobalt, suspended (micrograms per liter as Co)
01037	Cobalt, total (micrograms per liter as Co)
01038	Cobalt, total, in bottom material (micrograms per gram as Co)
01040	Copper, dissolved (micrograms per liter as Cu)
01041	Copper, suspended (micrograms per liter as Cu)
01042	Copper, total (micrograms per liter as Cu)
01043	Copper, total, in bottom material (micrograms per gram as Cu)
01044	Iron, suspended (micrograms per liter as Fe)
01045	Iron, total (micrograms per liter as Fe)
01046	Iron, dissolved (micrograms per liter as Fe)
01049	Lead, dissolved (micrograms per liter as Pb)
01050	Lead, suspended (micrograms per liter as Pb)
01051	Lead, total (micrograms per liter as Pb)
01052	Lead, total, in bottom material (micrograms per gram as Pb)
01053	Manganese, total, in bottom material (micrograms per gram as Mn)
01054	Manganese, suspended (micrograms per liter as Mn)
01055	Manganese, total (micrograms per liter as Mn)
01056	Manganese, dissolved (micrograms per liter as Mn)
01060	Molybdenum, dissolved (micrograms per liter as Mo)
01062	Molybdenum, total (micrograms per liter as Mo)
01065	Nickel, dissolved (micrograms per liter as Ni)
01066	Nickel, suspended (micrograms per liter as Ni)
01067	Nickel, total (micrograms per liter as Ni)
01074	Nickel, total, recoverable in water (micrograms per liter as Ni)
01075	Silver, dissolved (micrograms per liter as Ag)
01076	Silver, suspended (micrograms per liter as Ag)
01077	Silver, total (micrograms per liter as Ag)
01079	Silver, total, recoverable (micrograms per liter as Ag)
01080	Strontium, dissolved (micrograms per liter as Sr)

List of parameter codes and corresponding property or constituent--Continued

Parameter code	Property or constituent
01082	Strontium, total (micrograms per liter as Sr)
01085	Vanadium, dissolved (micrograms per liter as V)
01087	Vanadium, total (micrograms per liter as V)
01090	Zinc, dissolved (micrograms per liter as Zn)
01091	Zinc, suspended (micrograms per liter as Zn)
01092	Zinc, total (micrograms per liter as Zn)
01093	Zinc, total, in bottom material (micrograms per gram as Zn)
01094	Zinc, total, recoverable in water (micrograms per liter as Zn)
01097	Antimony, total (micrograms per liter as Sb)
01104	Aluminum, total, recoverable (micrograms per liter as Al)
01105	Aluminum, total (micrograms per liter as Al)
01106	Aluminum, dissolved (micrograms per liter as Al)
01113	Cadmium, total, recoverable in water (micrograms per liter as Cd)
01114	Lead, total, recoverable (micrograms per liter Pb)
01118	Chromium, total, recoverable in water (micrograms per liter as Cr)
01119	Copper, total, recoverable in water (micrograms per liter as Cu)
01123	Manganese, total, recoverable in water (micrograms per liter as Mn)
01128	Thallium, total, recoverable (micrograms per liter as Tl)
01130	Lithium, dissolved (micrograms per liter as Li)
01132	Lithium, total (micrograms per liter as Li)
01145	Selenium, dissolved (micrograms per liter as Se)
01146	Selenium, suspended (micrograms per liter as Se)
01147	Selenium, total (micrograms per liter as Se)
01148	Selenium, total, in bottom material (micrograms per gram as Se)
01170	Iron, total, sediment, bed material (micrograms per gram as Fe)
01515	Alpha, gross, dissolved (picocuries per liter as U natural)
01516	Alpha, gross, suspended (picocuries per liter as U natural)
03515	Beta, gross, dissolved (picocuries per liter as CS-137)
03516	Beta, gross, suspended (picocuries per liter as CS-137)
04024	Propachlor, water, dissolved, recoverable (micrograms per liter)
04028	Butylate, water, dissolved, recoverable (micrograms per liter)
04029	Bromacil, water, dissolved, recoverable (micrograms per liter)
04035	Simazine, water, dissolved, recoverable (micrograms per liter)
04037	Prometon, water, dissolved, recoverable (micrograms per liter)
04040	Deethyl atrazine, water, dissolved, recoverable (micrograms per liter)
04041	Cyanazine, water, dissolved, recoverable (micrograms per liter)
04095	Fonofos, water, dissolved, recoverable (micrograms per liter)
04126	Alpha, radioactivity, water, dissolved (picocuries per liter as TH-230)
04127	Alpha, radioactivity, sediment, suspended, dry weight (picocuries per liter as TH-230)
07000	Tritium, total (picocuries per liter)
07060	Iron 59, dissolved (picocuries per liter)
09510	Radium 226, dissolved, planchet count (picocuries per liter)
09511	Radium 226, dissolved, radon method (picocuries per liter)
22703	Uranium, natural, water, dissolved (micrograms per liter)
30192	MCPA, water, unfiltered, recoverable (micrograms per liter)
30201	Chloromethane, water, whole, recoverable (micrograms per liter)
30202	Bromomethane, water, whole, recoverable (micrograms per liter)
30217	Dibromomethane, water, whole, recoverable (micrograms per liter)
30282	Methiocarb, water, whole, recoverable (micrograms per liter)
30296	Propoxur, water, whole, recoverable (micrograms per liter)

List of parameter codes and corresponding property or constituent--Continued

Parameter code	Property or constituent
31501	Total coliform, water, (colonies per 100 milliliters)
31616	Fecal coliform, water (colonies per 100 milliliters)
31625	Fecal coliform, 0.7 micrometer-membrane filter (colonies per 100 milliliters)
31673	Streptococci, fecal, membrane filter (colonies per 100 milliliters)
31679	Streptococci, fecal, membrane filter (colonies per 100 milliliters)
32101	Bromodichloromethane, water, unfiltered, recoverable (micrograms per liter)
32102	Carbon tetrachloride, water, unfiltered, recoverable (micrograms per liter)
32103	1,2-Dichloroethane, total (micrograms per liter)
32104	Bromoform, total (micrograms per liter)
32105	Chlorodibromomethane, total (micrograms per liter)
32106	Chloroform, total (micrograms per liter)
32226	Chlorophyll b, periphyton, spectrophotometric, uncorrected (milligrams per square meter)
32228	Chlorophyll a, periphyton, spectrophotometric, uncorrected (milligrams per square meter)
32230	Chlorophyll a, phytoplankton, spectrophotometric, uncorrected (micrograms per liter)
32231	Chlorophyll b, phytoplankton, spectrophotometric (micrograms per liter)
32730	Phenols, total (micrograms per liter)
34010	Toluene, total (micrograms per liter)
34030	Benzene, total (micrograms per liter)
34210	Acrolein, total (micrograms per liter)
34215	Acrylonitrile, total (micrograms per liter)
34253	Alpha BHC (micrograms per liter)
34301	Chlorobenzene, total (micrograms per liter)
34311	Chloroethane, total (micrograms per liter)
34351	Endosulfan sulfate, total (micrograms per liter)
34356	Endosulfan II, water, unfiltered, recoverable (micrograms per liter)
34361	Endosulfan I, water, whole, recoverable (micrograms per liter)
34366	Endrin aldehyde, total (micrograms per liter)
34371	Ethylbenzene, total (micrograms per liter)
34396	Ethane, hexachloro-, water, unfiltered, recoverable (micrograms per liter)
34413	Methylbromide, total (micrograms per liter)
34418	Methylchloride, total (micrograms per liter)
34423	Methylene chloride, water, unfiltered, recoverable (micrograms per liter)
34475	Tetrachloroethylene, total (micrograms per liter)
34488	Trichlorofluoromethane, total (micrograms per liter)
34496	1,1-Dichloroethane, total
34501	1,1-Dichloroethylene, total (micrograms per liter)
34506	1,1,1-Trichloroethane, total (micrograms per liter)
34511	1,1,2-Trichloroethane, total (micrograms per liter)
34516	Ethane, 1,1,2,2-Tetrachloro-, water, unfiltered, recoverable (micrograms per liter)
34536	Benzene, o-dichloro-, water, unfiltered, recoverable (micrograms per liter)
34541	1,2-Dichloropropane, total (micrograms per liter)
34546	Trans-1, 2-Dichloroethene, total, in water (micrograms per liter)
34551	Benzene, 1,2,4-Trichloro-, water, unfiltered, recoverable (micrograms per liter)
34566	Benzene, 1,3-Dichloro-, water, unfiltered, recoverable (micrograms per liter)
34571	Benzene, 1,4-Dichloro-, water, unfiltered, recoverable (micrograms per liter)
34653	P,P'-DDE dissolved (micrograms per liter)
34668	Dichlorodifluoromethane, total (micrograms per liter)
34696	Naphthalene, total (micrograms per liter)
34699	Trans-1,3-dichloropropene, total (micrograms per liter)
34704	CIS-1, 3-Dichloropropene, total (micrograms per liter)

List of parameter codes and corresponding property or constituent--Continued

Parameter code	Property or constituent
34757	Triazine, screen by enzyme linked immuno sorbent assay, water, whole, recoverable (micrograms per liter)
38260	Methylene, blue active substance (milligrams per liter)
38442	Dicamba, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
38478	Linuron, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
38482	MCPA, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
38487	MCPB, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
38501	Methiocarb, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
38538	Propoxur, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
38710	Bentazon, water, unfiltered, recoverable (micrograms per liter)
38711	Bentazon, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
38746	2,4-DB, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
38787	Ethalfluralin, water, whole, recoverable (micrograms per liter)
38811	Fluometuron, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
38866	Oxamyl, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
38933	Chlorpyrifos, dissolved (micrograms per liter)
39025	Simazine, total, coulson cond. (micrograms per liter)
39030	Trifluralin, total, recoverable (micrograms per liter)
39032	Pentachlorophenol, total (micrograms per liter)
39034	Perthane, total (micrograms per liter)
39051	Methomyl, total (micrograms per liter)
39052	Propham, total (micrograms per liter)
39055	Simazine, total (micrograms per liter)
39086	Alkalinity, water, dissolved, total, incremental, field (milligrams per liter as $CaCO_3$)
39175	Vinyl chloride, total (micrograms per liter)
39180	Trichloroethylene, total (micrograms per liter)
39250	PCNS, water, unfiltered, recoverable (micrograms per liter)
39251	PCN, total, in bottom material, dry weight (micrograms per kilogram)
39330	Aldrin, total (micrograms per liter)
39331	Aldrin, dissolved (micrograms per liter)
39332	Aldrin, suspended, total (micrograms per liter)
39333	Aldrin, in bottom material (micrograms per kilogram)
39337	Alpha BHC, total (micrograms per liter)
39340	Lindane, total (micrograms per liter)
39341	Lindane, dissolved (micrograms per liter)
39342	Lindane, suspended, total (micrograms per liter)
39343	Lindane, in bottom material (micrograms per kilogram)
39348	Chlordane, alpha, water, whole, recoverable (micrograms per liter)
39350	Chlordane, technical, total (micrograms per liter)
39351	Chlordane, technical, in bottom material (micrograms per kilogram)
39352	Chlordane, technical, dissolved (micrograms per liter)
39353	Chlordane, suspended, total (micrograms per liter)
39360	P,P'-DDD, water, unfiltered, recoverable (micrograms per liter)
39361	P,P'-DDD, water, filtered, recoverable (micrograms per liter)
39362	DDD, suspended, total (micrograms per liter)
39363	P,P'-DDD, sediment, bed material, dry weight, recoverable (micrograms per kilogram)
39366	P,P'-DDE , water, filtered, recoverable (micrograms per liter)
39365	P,P'-DDE, total (micrograms per liter)
39367	DDE, suspended, total (micrograms per liter)
39368	P,P'-DDE , sediment, bed material, dry weight, recoverable (micrograms per kilogram)
39370	P,P'-DDT, water, unfiltered, recoverable (micrograms per liter)

Parameter code	Property or constituent
39371	P,P'-DDT, water, filtered, recoverable (micrograms per liter)
39372	DDT, suspended, total (micrograms per liter)
39373	P,P'-DDT, sediment, bed material, dry weight, recoverable (micrograms per kilogram)
39380	Dieldrin, total (micrograms per liter)
39381	Dieldrin, dissolved (micrograms per liter)
39382	Dieldrin, suspended, total (micrograms per liter)
39383	Dieldrin, in bottom material (micrograms per kilogram)
39388	Endosulfan I, total (micrograms per liter)
39389	Endosulfan I, total, in bottom material, dry wt (micrograms per kilogram)
39390	Endrin, water, unfiltered, recoverable (micrograms per liter)
39391	Endrin, dissolved (micrograms per liter)
39392	Endrin, suspended, total (micrograms per liter)
39393	Endrin, in bottom material (micrograms per kilogram)
39398	Ethion, total (micrograms per liter)
39399	Ethion, in bottom material (micrograms per kilogram, dry solids)
39400	Toxaphene, total (micrograms per liter)
39410	Heptachlor, total (micrograms per liter)
39411	Heptachlor, dissolved (micrograms per liter)
39412	Heptachlor, suspended, total (micrograms per liter)
39413	Heptachlor, in bottom material (micrograms per kilogram)
39415	Metolachlor, water, dissolved (micrograms per liter)
39420	Heptachlor epoxide, total (micrograms per liter)
39421	Heptachlor epoxide, dissolved (micrograms per liter)
39422	Heptachlor epoxide, suspended, total (micrograms per liter)
39423	Heptachlor epoxide, in bottom material (micrograms per kilogram)
39480	Methoxychlor, total (micrograms per liter)
39481	Methoxychlor, in bottom material (micrograms per kilogram, dry solids)
39504	Aroclor. 1254 PCB, total (micrograms per liter)
39516	PCB, total (micrograms per liter)
39517	PCB, dissolved (micrograms per liter)
39518	PCB, suspended, total (micrograms per liter)
39519	PCB, in bottom material (micrograms per kilogram)
39530	Malathion, total (micrograms per liter)
39531	Malathion, in bottom material (micrograms per kilogram, dry solids)
39532	Malathion, dissolved (micrograms per liter)
39533	Malathion, suspended, total (micrograms per liter)
39540	Parathion, total (micrograms per liter)
39541	Parathion, in bottom material (micrograms per kilogram, dry solids)
39542	Parathion, dissolved (micrograms per liter)
39543	Parathion, suspended, total (micrograms per liter)
39570	Diazinon, total (micrograms per liter)
39571	Diazinon, in bottom material (micrograms per kilogram, dry solids)
39572	Diazinon, dissolved (micrograms per liter)
39573	Diazinon, suspended, total (micrograms per liter)
39600	Methyl parathion, total (micrograms per liter)
39601	Methyl parathion, in bottom material (micrograms per kilogram, dry solids)
39602	Methyl parathion, dissolved (micrograms per liter)
39603	Methyl parathion, suspended, total (micrograms per liter)
39630	Atrazine, water, unfiltered, recoverable (micrograms per liter)
39632	Atrazine, water, dissolved, recoverable (micrograms per liter)

List of parameter codes and corresponding property or constituent--Continued

Parameter code	Property or constituent
39702	Hexachlorobutadiene, total (micrograms per liter)
39720	Picloram, water, unfiltered, recoverable (micrograms per liter)
39730	2,4-D, total (micrograms per liter)
39731	2,4-D, in bottom material (micrograms per kilogram, dry solids)
39732	2,4-D, dissolved (micrograms per liter)
39733	2,4-D, suspended, total (micrograms per liter)
39740	2,4,5-T, total (micrograms per liter)
39741	2,4,5-T, in bottom material (micrograms per kilogram, dry solids)
39742	2,4,5-T, dissolved (micrograms per liter)
39743	2,4,5,-T, suspended, total (micrograms per liter)
39750	Carbaryl, water, unfiltered, recoverable (micrograms per liter)
39755	Mirex, total (micrograms per liter)
39758	Mirex, total, in bottom materials, dry weight (micrograms per kilogram)
39760	Silvex, total (micrograms per liter)
39761	Silvex, in bottom material (micrograms per kilogram, dry solids)
39762	Silvex, dissolved (micrograms per liter)
39763	Silvex, suspended, total (micrograms per liter)
39782	Lindane, total (micrograms per liter)
39786	Carbophenothion, water, unfiltered (micrograms per liter)
39787	Trithion, in bottom material (micrograms per kilogram, dry solids)
39790	Methyl trithion, total (micrograms per liter)
39791	Methyl trithion, in bottom material (micrograms per kilogram, dry solids)
39810	Chlordane, gamma, water, whole, recoverable (micrograms per liter)
46342	Alachlor, water, dissolved, recoverable (micrograms per liter)
49235	Triclopyr, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49236	Propham, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49260	Acetochlor, water, filtered, recoverable (micrograms per liter)
49291	Icloram, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49292	Oryzalin, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49293	Norflurazon, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49294	Neburon, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49295	1-Naphthol, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49296	Methomyl, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49297	Fenuron, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49298	Esfenvalerate, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49299	DNOC, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49300	Diuron, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49301	Dinoseb, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49302	Dichlorprop, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49303	Dichlobenil, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49304	Dacthal, mono-acid, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49305	Clopyralid, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49306	Chlorothalonil, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49307	Chloramben, water, filtered, GF, 0.7 u., recoverable (micrograms per liter)
49308	3-Hydroxycarbofuran, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49309	Carbofuran, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49310	Carbaryl, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49311	Bromoxynil, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49312	Aldicarb, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49313	Aldicarb sulfone, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)

List of parameter codes and corresponding property or constituent--Continued

Parameter code	Property or constituent
49314	Aldicarb sulfoxide, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49315	Acifluorfen, water, filtered, GF, 0.7 u, recoverable (micrograms per liter)
49991	Methyl acrylate, water, unfiltered, recoverable (micrograms per liter)
49999	Benzene, 1,2,3,4-tetramethyl, water, unfiltered, recoverable (micrograms per liter)
50000	Isodurene, water, unfiltered, recoverable (micrograms per liter)
50002	Bromoethene, water, unfiltered, recoverable (micrograms per liter)
50004	Ether, Tert-butyl Ethyl, water, unfiltered, recoverable (micrograms per liter)
50005	Ether, Tert-pentyl Methyl, water, unfiltered, recoverable (micrograms per liter)
60050	Phytoplankton, total (cells per milliliter)
61028	Turbidity, field, water, unfiltered (nephelometric turbidity unit)
61188	Chloramben, methyl ester, water, filtered, recoverable (micrograms per liter)
70299	Suspended solids at 110 degrees Celsius (milligrams per liter)
70300	Dissolved solids, residue at 180 degrees Celsius (milligrams per liter)
70301	Dissolved solids, calculated, sum of constituents (milligrams per liter)
70302	Dissolved solids (tons per day)
70303	Dissolved solids (tons per acre-foot)
70331	Sediment, suspended, sieve diameter (percent finer than 0.062 millimeter)
70332	Sediment, suspended, sieve diameter (percent finer than 0.125 millimeter)
70333	Sediment, suspended, sieve diameter (percent finer than 0.250 millimeter)
70334	Sediment, suspended, sieve diameter (percent finer than 0.500 millimeter)
70335	Sediment, suspended, sieve diameter (percent finer than 1.00 millimeter)
70336	Sediment, suspended, sieve diameter (percent finer than 2.00 millimeters)
70337	Sediment, suspended, fall diameter, distilled water (percent finer than 0.002 millimeter)
70338	Sediment, suspended, fall diameter, distilled water (percent finer than 0.004 millimeter)
70339	Sediment, suspended, fall diameter, distilled water (percent finer than 0.008 millimeter)
70340	Sediment, suspended, fall diameter, distilled water (percent finer than 0.016 millimeter)
70341	Sediment, suspended, fall diameter, distilled water (percent finer than 0.031 millimeter)
70342	Sediment, suspended, fall diameter, distilled water (percent finer than 0.062 millimeter)
70343	Sediment, suspended, fall diameter, distilled water (percent finer than 0.125 millimeter)
70344	Sediment, suspended, fall diameter, distilled water (percent finer than 0.250 millimeter)
70345	Sediment, suspended, fall diameter, distilled water, percent finer than 0.500 millimeter)
70346	Sediment, suspended, fall diameter, distilled water, percent finer than 1.00 millimeter)
70347	Sediment, suspended, fall diameter, distilled water, percent finer than 2.00 millimeters)
70507	Phosphorus, orthophosphate, total (milligrams per liter as P)
70949	Biomass-chlorophyll ratio, plankton (units)
70950	Biomass-chlorophyll ratio, periphyton (units)
70953	Chlorophyll a, phytoplankton, chromotographic-fluorometric (micrograms per liter)
70954	Chlorophyll b, phytoplankton, chromotographic-fluorometric (micrograms per liter)
70955	Chlorophyll a, periphyton, chromotographic-spectrophotometric (milligrams per square meter)
70956	Chlorophyll b, periphyton, chromotographic-spectrophotometric (milligrams per square meter)
70957	Chlorophyll a, periphyton, chromotographic-fluorometric (milligrams per square meter)
70958	Chlorophyll b, periphyton, chromotographic-fluorometric (milligrams per square meter)
71830	Hydroxide, water, whole, fixed endpoint titration, field (milligrams per liter as OH)
71845	Nitrogen, ammonia, total (milligrams per liter as NH_4)
71846	Nitrogen, ammonia, dissolved (milligrams per liter as NH_4)
71850	Nitrogen, nitrate, total (milligrams per liter as NH_3)
71851	Nitrogen, nitrate, dissolved (milligrams per liter as NH_3)
71855	Nitrogen, nitrite, total (milligrams per liter as NO_2)
71856	Nitrogen, nitrite, dissolved (milligrams per liter as NO_2)
71865	Iodide, dissolved (milligrams per liter as I)

List of parameter codes and corresponding property or constituent--Continued

Parameter code	Property or constituent
71870	Bromide, dissolved (milligrams per liter as Br)
71883	Manganese (milligrams per liter as Mn)
71885	Iron (micrograms per liter as Fe)
71886	Phosphorus, total (milligrams per liter as PO_4)
71887	Nitrogen, total (milligrams per liter as NO_3)
71890	Mercury, dissolved (micrograms per liter as Hg)
71895	Mercury, suspended, recoverable (micrograms per liter as Hg)
71900	Mercury, total, recoverable (micrograms per liter as Hg)
71921	Mercury, recoverable from bottom material (micrograms per gram as Hg)
73547	2-Butene, Trans-1, ,4-Dichloro-, water, unfiltered, recoverable (micrograms per liter)
73570	Methacrylate, ethyl-, water, unfiltered, recoverable (micrograms per liter)
75985	Tritium, 2 sigma precision estimate, water, whole, total (picocuries per liter)
75986	Alpha, radioactivity, 2 sigma precision estimate, water, dissolved (micrograms per liter as U natural)
75987	Alpha, radioactivity, 2 sigma precision estimate, water, dissolved (picocuries per liter as TH-230)
75988	Beta, radioactivity, 2 sigma precision estimate, water, dissolved (picocuries per liter as SR-90/y-90)
75989	Beta, radioactivity, 2 sigma precision estimate, water, dissolved (picocuries per liter as CS-137)
75990	Uranium, natural, 2 sigma precision estimate, water, dissolved (micrograms per liter)
76001	Radium-226, 2 sigma precision estimate, water, dissolved (picocuries per liter)
76004	Alpha, radioactivity, 2 sigma precision estimate, sediment suspended, total, dry weight (picocuries per liter as TH-230)
76005	Beta, radioactivity, 2 sigma precision estimate, sediment, suspended, total, dry weight, (picocuries per liter as CS-137)
77041	Carbon disulfide, water, whole, total (micrograms per liter)
77057	Acetate, vinyl, water, unfiltered, recoverable (micrograms per liter)
77093	CIS-1, 2-Dichloroethene, water, whole, total (micrograms per liter)
77103	2-Hexanone, water, whole, total (micrograms per liter)
77128	Styrene, total (micrograms per liter)
77135	O-xylene, water, whole, total (micrograms per liter)
77168	1,1-Dichloropropene, water, whole, total (micrograms per liter)
77170	2,2-Dichloropropane, water, whole, total (micrograms per liter)
77173	Propane, 1,3-dichloro-, water, whole, total (micrograms per liter)
77220	Toluene, o-ethyl-, water, unfiltered, recoverable (micrograms per liter)
77221	Benzene, 1,2,3-Trimethyl-, water, unfiltered, recoverable (micrograms per liter)
77222	Benzene, 1,2,4-Trimethyl-, water, unfiltered, recoverable (micrograms per liter)
77223	Benzene, isopropyl-, water, whole, recoverable (micrograms per liter)
77224	Benzene, n-propyl-, water, unfiltered, recoverable (micrograms per liter)
77226	Benzene, 1,3,5-Trimethyl-, water, unfiltered, recoverable (micrograms per liter)
77275	O-chlorotoluene, water, whole, total (micrograms per liter)
77277	Toluene, p-chloro-, water, unfiltered, recoverable (micrograms per liter)
77297	Methane, bromochloro-, water, unfiltered, recoverable (micrograms per liter)
77342	Benzene, n-butyl-, water, unfiltered, recoverable (micrograms per liter)
77350	Benzene, sec-butyl-, water, unfiltered, recoverable (micrograms per liter)
77353	Benzene, tert-butyl-, water, unfiltered, recoverable (micrograms per liter)
77356	P-isopropyltoluene, water, whole, recoverable (micrograms per liter)
77424	Methyl iodide, water, unfiltered, recoverable (micrograms per liter)
77441	1-Naphthol, water, whole (micrograms per liter)
77443	1,2,3-Trichloropropane, water, whole, total (micrograms per liter)
77562	Ethane, 1,1,1,2-Tetrachloro-, water, unfiltered, recoverable (micrograms per liter)
77613	Benzene, 1,2,3-Trichloro-, water, whole, recoverable (micrograms per liter)
77651	1,2-Dibromoethane, water, whole, total (micrograms per liter)
77652	Freon 113, water, unfiltered, recoverable (micrograms per liter)
77825	Alachlor, total, recoverable (micrograms per liter)

Parameter code	Property or constituent
78032	Methyl Tertiary-butyl Ether (MTBE), water, unfiltered, recoverable (micrograms per liter)
78109	Propene, 3-chloro-, water, unfiltered, recoverable (micrograms per liter)
78133	Methyl isobutyl ketone, water, whole, total (micrograms per liter)
79190	Pendimethalin, total (micrograms per liter)
79193	Acifluorfen, water, unfiltered, recoverable (micrograms per liter)
80010	Uranium, dissolved, direct fluorometric (picocuries per liter)
80030	Alpha, gross, dissolved (micrograms per liter as U natural)
80040	Alpha, gross, radioactivity, suspended total (micrograms per liter as U natural)
80050	Beta, gross, dissolved as strontium/yttrium-90 (picocuries per liter)
80060	Beta, gross, radioactivity, suspended, total (picocuries per liter as SR/Y-90)
80154	Sediment, suspended concentration (milligrams per liter)
80155	Sediment discharge, suspended (tons per day)
80156	Sediment discharge, total, suspended plus bed material (tons per day)
80157	Sediment, bed material, fall diameter, distilled water (percent finer than 0.004 millimeter)
80158	Sediment, bed material, fall diameter, distilled water (percent finer than 0.062 millimeter)
80159	Sediment, bed material, fall diameter, distilled water (percent finer than 0.125 millimeter)
80160	Sediment, bed material, fall diameter, distilled water (percent finer than 0.250 millimeter)
80161	Sediment, bed material, fall diameter, distilled water (percent finer than 0.500 millimeter)
80162	Sediment, bed material, fall diameter, distilled water (percent finer than 1.00 millimeter)
80164	Sediment, bed material, sieve diameter (percent finer than 0.062 millimeter)
80165	Sediment, bed material, sieve diameter (percent finer than 0.125 millimeter)
80166	Sediment, bed material, sieve diameter (percent finer than 0.250 millimeter)
80167	Sediment, bed material, sieve diameter (percent finer than 0.500 millimeter)
80168	Sediment, bed material, sieve diameter (percent finer than 1.00 millimeter)
80169	Sediment, bed material, sieve diameter (percent finer than 2.00 millimeters)
80170	Sediment, bed material, sieve diameter (percent finer than 4.00 millimeters)
80171	Sediment, bed material, sieve diameter (percent finer than 8.00 millimeters)
80172	Sediment, bed material, sieve diameter (percent finer than 16.0 millimeters)
80173	Sediment, bed material, sieve diameter (percent finer than 32.0 millimeters)
80184	Sediment, total, fall diameter, distilled water (percent finer than 0.016 millimeter)
80282	Bed material, fall diameter, distilled water (percent finer than 0.016 millimeter)
80283	Bed material, fall diameter, distilled water (percent finer than 0.031 millimeter)
80293	Bed material, fall diameter, distilled water (percent finer than 0.008 millimeter)
80294	Bed material, fall diameter, distilled water (percent finer than 0.002 millimeter)
81403	Chlorpyrifos, total (micrograms per liter)
81408	Metribuzin (sencor) in whole water sample (micrograms per liter)
81551	Xylene, water, unfiltered, recoverable (micrograms per liter)
81552	Acetone, water, whole, total (micrograms per liter)
81555	Bromobenzene, water, whole, total (micrograms per liter)
81576	Ether, Ethyl, water, unfiltered, recoverable (micrograms per liter)
81577	Di-isopropylether, water, unfiltered, recoverable (micrograms per liter)
81593	Methacrylonitrile, water, unfiltered, recoverable (micrograms per liter)
81595	Methylethylketone, water, whole, total (micrograms per liter)
81597	Methacrylate, methyl, water, unfiltered, recoverable (micrograms per liter)
81607	Furan, tetrahydro-, water, unfiltered, recoverable (micrograms per liter)
81757	Cyanazine, total (micrograms per liter)
81886	Perthane, in bottom material (micrograms per kilogram)
82052	Dicamba, total (micrograms per liter)
82068	Potassium 40. dissolved (picocuries per liter as K40)
82079	Turbidity, lab (nephelometric turbidity unit)

List of parameter codes and corresponding property or constituent--Continued

Parameter code	Property or constituent
82082	Hydrogen (2 to 1 ratio per million)
82085	Oxygen (18 to 16 ratio per milion)
82183	2,4-DP, total (micrograms per liter)
82226	Dinoseb, water, unfiltered, recoverable (micrograms per liter)
82584	3-Hydroxy carbofuran, water, whole, total recoverable (micrograms per liter)
82586	Aldicarb sulfoxide, water, whole, total, recoverable (micrograms per liter)
82587	Aldicarb sulfone, water, whole, total, recoverable (micrograms per liter)
82612	Metolachlor, water, whole, total, recoverable (micrograms per liter)
82613	Oxyamyl, water, whole, total, recoverable (micrograms per liter)
82615	Carbofuran, water, whole, total, recoverable (micrograms per liter)
82618	Carbaryl, water, whole, total, recoverable (micrograms per liter)
82619	Aldicarb, water, whole, total, recoverable (micrograms per liter)
82625	Dibromochloropropane, water, whole, total, recoverable (micrograms per liter)
82630	Metribuzin, (sencor), water, dissolved (micrograms per liter)
82660	2, 6-Dietrhylaniline, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82661	Trifluralin, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82663	Ethalfluralin, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82664	Phorate, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82665	Terbacil, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82666	Linuron, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82667	Methyl parathion, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82668	EPTC, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82669	Pebulate, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82670	Tebuthiuron, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82671	Molinate, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82672	Ethoprop, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82673	Benfluralin, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82674	Carbofuran, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82675	Terbufos, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82676	Pronamide, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82677	Disulfoton, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82678	Triallate, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82679	Propanil, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82680	Carbaryl, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82681	Thiobencarb, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82682	DCPA, water, filtered, lass fiber, 0.7 u, recoverable (micrograms per liter)
82683	Pendimethalin, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82684	Napropamide, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82685	Propargite, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82686	Methyl azinphos, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
82687	Permethrin, cis, water, filtered, glass fiber, 0.7 u, recoverable (micrograms per liter)
85795	M-xylene/P-xylene, water, unfiltered, recoverable (micrograms per liter)
90095	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)
90410	Acid neutralizing capacity (alkalinity), titration to pH 4.5, laboratory (milligrams per liter as $CaCO_3$)
95410	Acid neutralizing capacity (anc), water, unfiltered, titration to pH 4.5, laboratory (milligrams per liter as $CaCO_3$)
95440	Bicarbonate, titration to pH 4.5, laboratory (milligrams per liter as $CaCO_3$)
95445	Carbonate, titration to pH 8.3, laboratory (milligrams per liter as $CaCO_3$)
95902	Hardness, noncarbonate (milligrams per liter as $CaCO_3$)
99430	Acid neutralizing capacity, water, unfiltered, carbonate, incremental titration, field (milligrams per liter as $CaCO_3$)
99440	Bicarbonate, incremental titration, field (mg/L as HCO_3)

List of parameter codes and corresponding property or constituent--Continued

Parameter code	Property or constituent
99445	Carbonate, incremental titration, field (mg/L as CO_3)
99891	Phosphorus, total, water, whole, modified jirka method, total (milligrams per liter as P)
99892	Nitrogen, ammonia plus organic, water, whole, modified jirka method, total (milligrams per liter as N)
99893	Phosphorus, total, water, dissolved, modified jirka method (milligrams per liter as P)
99894	Nitrogen, ammonia plus organic, water, dissolved, modified jirka method (milligrams per liter as N)

Supplement 1. Statistical summary of water-quality data for the Otter Tail River below Orwell Dam near Fergus Falls, Minn., gaging station 05046000, October 1960 through August 1995

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	Minnesota data, October 1960 through August 1995									
00060	DISCHARGE CFS	9	1040.000	85.000	429.444	1040.000	578.500	382.000	231.000	85.000
00061	DISCHARGE, INST. CFS	26	1210.000	85.000	649.692	1154.000	909.500	681.000	363.250	112.650
00080	COLOR PLATINUM-COBAL	8	15.000	5.000	8.125	15.000	9.500	7.000	6.250	5.000
00540	RESIDUE FIXED (MG/L)	47	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/5C-FT	47	0.410	0.000	0.265	0.380	0.360	0.330	0.310	0.000
70302	DISSOLVED SOLIDS TONS/DAY	47	830.000	0.000	217.104	750.000	470.000	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	40	299.000	225.000	254.525	280.900	266.750	253.000	243.000	226.150
70301	DISSOLVED SOLIDS MG/L	47	290.000	0.000	182.553	268.800	243.000	231.000	214.000	0.000
00025	AIR PRESSURE (MM OF HG)	35	761.000	720.000	738.914	758.600	749.000	737.000	733.000	720.000
00300	OXYGEN DISSOLVED (MG/L)	37	15.400	3.500	10.081	14.320	12.200	9.500	8.250	3.770
00301	OXYGEN DIS. PERC % OF SATURATIO	47	119.000	0.000	64.851	111.800	105.000	90.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	46	8.800	7.200	8.163	8.600	8.400	8.200	7.975	7.435
00403	PH, WH, LABORATO (STANDARD UNIT	33	8.400	7.700	7.973	8.260	8.050	8.000	7.900	7.700
90095	SPECIFIC CONDUCT MICROSIEMENS/C	33	489.000	379.000	431.939	484.100	450.000	426.000	412.000	381.800
00095	SPECIFIC CONDUCT US/CM @ 25C	44	505.000	367.000	423.523	489.000	442.000	418.000	399.000	368.500
00020	AIR TEMPERATURE DEGREES C	25	27.000	-30.000	9.260	25.800	19.000	11.500	1.000	-23.250
00010	WATER TEMPERATUR (DEGREES C)	39	24.500	0.000	12.992	23.500	20.000	14.500	4.000	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	47	38.000	0.000	7.979	29.800	17.000	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	47	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	47	22.000	0.000	1.681	15.800	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	47	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	47	260.000	0.000	175.745	240.000	220.000	210.000	190.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	39	47.000	32.000	38.513	45.000	41.000	39.000	36.000	33.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	39	35.000	25.000	28.077	32.000	29.000	28.000	27.000	25.000
00935	POTASSIUM DISSOL (MG/L AS K)	39	5.800	0.100	4.044	5.300	4.600	4.100	3.600	1.800
00931	SODIUM ADSORPTIO (RATIO)	47	0.300	0.000	0.211	0.300	0.300	0.200	0.200	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	39	11.000	6.500	8.585	11.000	9.200	8.300	7.900	6.900
00932	SODIUM, PERCENT PERCENT	47	10.000	0.000	6.426	9.600	8.000	8.000	7.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	47	0.000	--	--	--	--	--	--	--
99430	ANC, CARB, IT, F MG/L	5	218.000	186.000	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	29	232.000	186.000	203.759	230.500	209.500	201.000	195.000	188.000
39086	ALKALINITY,DIS,I (MG/L AS CACO3	24	222.000	172.000	193.875	220.000	200.750	191.500	186.000	173.250
00410	ANC, FET, FIELD (MG/L AS CACO3	3	196.000	191.000	--	--	--	--	--	--
99440	BICARBONATE MG/L AS HCO3	1	246.000	--	--	--	--	--	--	--
00453	BICARBONATE,DIS, (MG/L AS HCO3)	24	271.000	193.000	231.042	268.500	244.750	228.000	220.250	196.250

Supplement 1. Statistical summary of water-quality data for the Otter Tail River below Orwell Dam near Fergus Falls, Minn., gaging station 05046000, October 1960 through August 1995--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, October 1960 through August 1995--Continued							
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	8	300.000	220.000	251.250	300.000	275.000	245.000	230.000	220.000
99445	CARBONATE MG/L AS CO3	1	0.000	--	--	--	--	--	--	--
00452	CARBONATE,DIS,IT (MG/L AS CO3)	24	17.000	0.000	3.500	16.750	5.750	0.000	0.000	0.000
00445	ANC CARB FET FIE (MG/L AS CO3)	8	0.000	--	--	--	--	--	--	--
00940	CHLORIDE DISSOLV (MG/L AS CL)	41	14.000	2.700	8.349	12.900	10.500	9.000	6.850	3.310
00950	FLUORIDE DISSOLV (MG/L AS F)	41	0.300	0.100	0.151	0.300	0.200	0.100	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	39	19.000	9.300	14.144	18.000	17.000	15.000	11.000	9.500
00945	SULFATE DISSOLVE (MG/L AS SO4)	41	32.000	9.300	16.805	27.000	20.500	16.000	12.000	9.310
00608	NITROGEN AMMONIA (MG/L AS N)	28	0.190	--	*0.051	*0.185	*0.075	*0.025	*0.020	*0.006
00623	NITRO AMN & ORG (MG/L AS N)	33	1.600	0.300	0.639	1.320	0.700	0.600	0.500	0.370
00624	NITROGEN SUSPEND (MG/L AS N)	5	0.700	0.100	--	--	--	--	--	--
00625	NITROGEN AMM+ORG (MG/L AS N)	33	1.700	0.500	0.794	1.560	0.900	0.700	0.600	0.500
71846	NITR. NH4 AS NH4 MG/L AS NH4	47	0.240	0.000	0.040	0.214	0.040	0.030	0.000	0.000
00610	NITROGEN AMMONIA (MG/L AS N)	9	0.150	--	*0.069	*0.150	*0.125	*0.050	*0.021	*0.011
71845	NITROGEN, NH4, T MG/L AS NH4	47	0.190	0.000	0.016	0.164	0.000	0.000	0.000	0.000
00602	NITROGEN DISSOLV (MG/L AS N)	47	1.800	0.000	0.311	1.480	0.760	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	47	0.480	0.000	0.051	0.420	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	47	3.500	0.000	0.523	2.648	0.974	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	47	0.000	--	--	--	--	--	--	--
71850	N, NITRATE TOTAL MG/L AS NO3	6	3.500	0.000	1.633	3.500	3.125	1.600	0.075	0.000
00631	NO2 + NO3 DISSOL (MG/L AS N)	37	0.580	--	*0.125	*0.508	*0.150	*0.053	*0.023	*0.007
00630	NO2 + NO3 TOTAL (MG/L AS N)	47	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	47	0.099	0.000	0.012	0.086	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	28	0.030	--	*0.009	*0.030	*0.010	*0.006	*0.003	*0.001
00607	NITROGEN ORGANIC (MG/L AS N)	47	1.000	0.000	0.260	0.704	0.550	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	47	1.600	0.000	0.443	1.420	0.680	0.520	0.000	0.000
00600	NITROGEN TOTAL (MG/L AS N)	47	1.900	0.000	0.345	1.600	0.830	0.000	0.000	0.000
71887	NITROGEN, TOTAL MG/L AS NO3	47	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	47	0.123	0.000	0.023	0.122	0.031	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	47	0.000	--	--	--	--	--	--	--
00666	PHOSPHORUS DISS. (MG/L AS P)	33	0.070	--	*0.023	*0.056	*0.030	*0.020	*0.010	*0.006
00672	PHOSPHORUS HYDRO (MG/L AS P)	47	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	47	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	47	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	47	0.000	--	--	--	--	--	--	--

Supplement 1. Statistical summary of water-quality data for the Otter Tail River below Orwell Dam near Fergus Falls, Minn., gaging station 05046000, October 1960 through August 1995--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, October 1960 through August 1995--Continued							
00671	PHOSPHORUS ORTHO (MG/L AS P)	28	0.040	--	*0.01	*0.040	*0.020	*0.010	*0.004	*0.002
00665	PHOSPHORUS TOTAL (MG/L AS P)	37	0.290	0.020	0.051	0.128	0.060	0.040	0.030	0.020
71886	PHOSPHORUS TOT P MG/L AS PO4	5	0.210	0.180	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	47	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	47	23.000	0.000	3.579	14.600	3.700	2.000	1.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	18	9.700	6.700	8.072	9.700	8.525	7.900	7.675	6.700
00689	CARBON ORGANIC P (MG/L AS C)	18	4.400	0.300	0.867	4.400	0.925	0.550	0.475	0.300
00680	CARBON ORGANIC T (MG/L AS C)	1	7.200	--	--	--	--	--	--	--
00690	CARBON INORG + O (MG/L AS C)	47	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	47	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	47	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	47	0.000	--	--	--	--	--	--	--
01105	ALUMINUM TOTAL UG/L AS AL	3	500.000	0.000	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	8	80.000	40.000	53.750	80.000	57.500	50.000	50.000	40.000
01022	BORON TOTAL (UG/L AS B)	6	80.000	50.000	56.667	80.000	65.000	50.000	50.000	50.000
00999	BORON TOTAL REC. (UG/L)	1	0.000	--	--	--	--	--	--	--
71885	IRON UG/L AS FE	8	50.000	10.000	27.500	50.000	50.000	20.000	10.000	10.000
01046	IRON DISSOLVED (UG/L AS FE)	24	60.000	10.000	19.583	55.000	27.500	15.000	10.000	10.000
01045	IRON TOTAL (UG/L AS FE)	6	50.000	10.000	20.000	50.000	27.500	15.000	10.000	10.000
01056	MANGANESE DISSOL (UG/L AS MN)	24	46.000	1.000	13.333	43.250	22.750	7.000	3.250	1.250
01055	MANGANESE TOTAL (UG/L AS MN)	8	100.000	0.000	30.000	100.000	80.000	0.000	0.000	0.000
49295	1-NAPHTHOL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
39742	2,4,5-T DISSOLVE UG/L	3	--	--	--	--	--	--	--	--
39732	2,4-D DISSOLVED UG/L	3	--	--	--	--	--	--	--	--
38746	2,4-DB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82660	26DIETHYLANILINE (UG/L)	3	--	--	--	--	--	--	--	--
49308	3HYDRXYCARBOFURA (UG/L)	3	--	--	--	--	--	--	--	--
49260	ACETOCHLOR FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49315	ACIFLUORFEN FLTR (UG/L)	3	--	--	--	--	--	--	--	--
46342	ALACHLOR, DISS, UG/L	3	--	--	--	--	--	--	--	--
49313	ALDICARB SULFONE (UG/L)	3	--	--	--	--	--	--	--	--
49314	ALDICARB SULFOXI (UG/L)	3	--	--	--	--	--	--	--	--
49312	ALDICARB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
34253	ALPHA BHC UG/L	3	--	--	--	--	--	--	--	--
39632	ATRAZINE, DISS, UG/L	3	0.053	0.030	--	--	--	--	--	--

Supplement 1. Statistical summary of water-quality data for the Otter Tail River below Orwell Dam near Fergus Falls, Minn., gaging station 05046000, October 1960 through August 1995--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, October 1960 through August 1995--Continued							
82673	BENFLURALIN FIL (UG/L)	3	--	--	--	--	--	--	--	--
38711	BENTAZON, FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
04029	BROMACIL DISS RE (UG/L)	3	--	--	--	--	--	--	--	--
49311	BROMOXYNIL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
04028	BUTYLATE DISS RE (UG/L)	3	--	--	--	--	--	--	--	--
49310	CARBARYL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82680	CARBARYL FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
49309	CARBOFURAN FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82674	CARBOFURAN FIL. (UG/L)	3	--	--	--	--	--	--	--	--
49307	CHLORAMBEN FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49306	CHLOROTHALONIL F (UG/L)	3	--	--	--	--	--	--	--	--
38933	CHLORPYRIFOS, DI UG/L	3	--	--	--	--	--	--	--	--
49305	CLOPYRALID FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
04041	CYANAZINE DISS R (UG/L)	3	0.035	0.014	--	--	--	--	--	--
49304	DACTHAL MONO-ACI (UG/L)	3	--	--	--	--	--	--	--	--
82682	DCPA FIL 0.7 REC (UG/L)	3	--	--	--	--	--	--	--	--
04040	DEETHYL ATRAZINE (UG/L)	3	0.008	0.005	--	--	--	--	--	--
39572	DIAZINON DISSOLV UG/L	3	--	--	--	--	--	--	--	--
38442	DICAMBA FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49303	DICHLOBENIL FLTR (UG/L)	3	--	--	--	--	--	--	--	--
49302	DICHLORPRO FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
39381	DIELDRIN DISSOLV UG/L	3	--	--	--	--	--	--	--	--
49301	DINOSEB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82677	DISULFOTON FIL. (UG/L)	3	--	--	--	--	--	--	--	--
49300	DIURON FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49299	DNOC FLTD (UG/L)	3	--	--	--	--	--	--	--	--
82668	EPTC FIL 0.7 REC (UG/L)	3	--	--	--	--	--	--	--	--
49298	ESFENVALERATE FL (UG/L)	3	--	--	--	--	--	--	--	--
82663	ETHALFLURALIN FI (UG/L)	3	--	--	--	--	--	--	--	--
82672	ETHOPROP FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
49297	FENURON FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
38811	FLUOMETURON FLT (UG/L)	3	--	--	--	--	--	--	--	--
04095	FONOFOX DISS REC (UG/L)	3	--	--	--	--	--	--	--	--
39341	LINDANE DISSOLVE UG/L	3	--	--	--	--	--	--	--	--
38478	LINURON FLTRD (UG/L)	3	--	--	--	--	--	--	--	--

Supplement 1. Statistical summary of water-quality data for the Otter Tail River below Orwell Dam near Fergus Falls, Minn., gaging station 05046000, October 1960 through August 1995--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		Minnesota data, October 1960 through August 1995--Continued								
82666	LINURON FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
39532	MALATHION DISSOL UG/L	3	--	--	--	--	--	--	--	--
38482	MCPA FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
38487	MCPB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
38501	METHIOCARB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49296	METHOMYL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82686	METHYL AZINPHOS (UG/L)	3	--	--	--	--	--	--	--	--
82667	METHYL PARATHION (UG/L)	3	--	--	--	--	--	--	--	--
39415	METOLACHLOR,WAT. UG/L	3	--	--	--	--	--	--	--	--
82630	METRIBUZIN,WAT.D UG/L	3	--	--	--	--	--	--	--	--
82671	MOLINATE FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
82684	NAPROPAMIDE FIL (UG/L)	3	--	--	--	--	--	--	--	--
49294	NEBURON FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49293	NORFLURAZON FLTR (UG/L)	3	--	--	--	--	--	--	--	--
49292	ORYZALIN FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
38866	OXAMYL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
34653	P,P' DDE DISSOLV (UG/L)	3	--	--	--	--	--	--	--	--
39542	PARATHION DISSOL UG/L	3	--	--	--	--	--	--	--	--
82669	PEBULATE FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
82683	PENDIMETHALIN F. (UG/L)	3	--	--	--	--	--	--	--	--
82687	PERMETHRIN FIL. (UG/L)	3	--	--	--	--	--	--	--	--
82664	PHORATE FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
49291	PICLORAM FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
04037	PROMETON DISS RE (UG/L)	3	--	--	--	--	--	--	--	--
82676	PRONAMIDE FIL .7 (UG/L)	3	--	--	--	--	--	--	--	--
04024	PROPACHLOR DISS (UG/L)	3	--	--	--	--	--	--	--	--
82679	PROPANIL FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
82685	PROPARGITE FIL. (UG/L)	3	--	--	--	--	--	--	--	--
49236	PROPHAM FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
38538	PROPOXUR FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
39762	SILVEX DISSOLVED UG/L	3	--	--	--	--	--	--	--	--
04035	SIMAZINE DISS RE (UG/L)	3	--	--	--	--	--	--	--	--
82670	TEBUTHIURON FIL (UG/L)	3	--	--	--	--	--	--	--	--
82665	TERBACIL FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
82675	TERBUFOS FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--

Supplement 1. Statistical summary of water-quality data for the Otter Tail River below Drwell Dam near Fergus Falls, Minn., gaging station 05046000, October 1960 through August 1995--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, October 1960 through August 1995--Continued							
82681	THIOBENCARB FIL (UG/L)	3	--	--	--	--	--	--	--	--
82678	TRIALLATE FIL .7 (UG/L)	3	--	--	--	--	--	--	--	--
49235	TRICLOPYR FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82661	TRIFLURALIN FIL (UG/L)	3	--	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	26	100.000	86.000	95.308	100.000	100.000	97.000	92.000	86.000
80156	SUS-SED DISCH + T/DAY	47	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	26	40.000	1.000	12.346	35.800	16.000	11.500	5.000	1.000
80155	DISCHARGE,SUSP.S T/DAY	47	95.000	0.000	10.911	63.400	11.000	0.000	0.000	0.000

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 2. Statistical summary of water-quality data for the Bois de Sioux River near White Rock, S. Dak., gaging station 05050000, November 1963 through November 1995

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, November 1963 through November 1966							
00060	DISCHARGE CFS	14	872.000	0.200	147.221	872.000	175.250	10.300	0.900	0.200
00061	DISCHARGE, INST. CFS	6	872.000	1.200	326.533	872.000	649.250	245.500	15.300	1.200
00080	COLOR PLATINUM-COBAL	15	35.000	20.000	28.267	35.000	30.000	30.000	25.000	20.000
00540	RESIDUE FIXED (MG/L)	15	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	15	3.220	0.720	1.399	3.220	1.440	1.320	0.950	0.720
70302	DISSOLVED SOLIDS TONS/DAY	15	1330.000	1.110	248.785	1330.000	172.000	15.000	2.860	1.110
70300	RESIDUE DIS 180C MG/L	15	2370.000	529.000	1024.467	2370.000	1060.000	970.000	698.000	529.000
70301	DISSOLVED SOLIDS MG/L	15	2360.000	0.000	926.467	2360.000	1050.000	828.000	641.000	0.000
00301	OXYGEN DIS. PERC % OF SATURATIO	15	0.000	--	--	--	--	--	--	--
00400	PH, WH, FIELD (STANDARD UNIT	15	8.400	7.000	7.713	8.400	8.000	7.700	7.500	7.000
00095	SPECIFIC CONDUCT US/CM @ 25C	15	2860.000	754.000	1360.000	2860.000	1450.000	1270.000	952.000	754.000
00010	WATER TEMPERATUR (DEGREES C)	7	22.200	0.000	9.443	22.200	18.900	8.900	1.100	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	15	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	15	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	15	1200.000	25.000	395.000	1200.000	450.000	330.000	240.000	25.000
00903	NONCARBONATE HAR (MG/L AS CACO3	15	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	15	1600.000	350.000	667.333	1600.000	740.000	590.000	450.000	350.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	14	300.000	68.000	127.000	300.000	136.000	111.500	91.000	68.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	14	212.000	44.000	86.643	212.000	98.250	75.500	52.750	44.000
00935	POTASSIUM DISSOL (MG/L AS K)	14	21.000	7.900	14.021	21.000	18.000	14.000	9.750	7.900
00931	SODIUM ADSORPTIO (RATIO)	15	2.000	0.600	1.107	2.000	1.000	1.000	0.900	0.600
00930	SODIUM DISSOLVED (MG/L AS NA)	14	135.000	25.000	64.857	135.000	83.500	57.000	41.500	25.000
00932	SODIUM, PERCENT PERCENT	15	21.000	0.000	15.533	21.000	18.000	17.000	14.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	15	0.000	--	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	5	390.000	184.000	--	--	--	--	--	--
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	14	480.000	220.000	305.714	480.000	395.000	260.000	235.000	220.000
00445	ANC CARB FET FIE (MG/L AS CO3)	14	12.000	0.000	0.857	12.000	0.000	0.000	0.000	0.000
71870	BROMIDE DISSOLVE MG/L AS BR	10	0.210	0.130	0.173	0.210	0.192	0.175	0.150	0.130
00940	CHLORIDE DISSOLV (MG/L AS CL)	14	35.000	6.800	17.029	35.000	21.750	17.000	10.000	6.800
00950	FLUORIDE DISSOLV (MG/L AS F)	14	0.600	0.200	0.336	0.600	0.400	0.300	0.300	0.200
00955	SILICA DISSOLVED (MG/L AS SIO2)	14	34.000	6.800	18.286	34.000	25.250	19.000	8.775	6.800
00945	SULFATE DISSOLVE (MG/L AS SO4)	14	1400.000	203.000	513.571	1400.000	607.750	415.500	313.250	203.000
71846	NITR. NH4 AS NH4 MG/L AS NH4	15	2.200	0.000	0.273	2.200	0.000	0.000	0.000	0.000
71845	NITROGEN, NH4, T MG/L AS NH4	15	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	15	0.000	--	--	--	--	--	--	--

Supplement 2. Statistical summary of water-quality data for the Bois de Sioux River near White Rock, S. Dak., gaging station 05050000, November 1963 through November 1995--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	Minnesota data, November 1963 through November 1966--Continued									
00618	NITROGEN NITRATE (MG/L AS N)	15	0.000	--	--	--	--	--	--	--
71851	NITR. NO3 AS NO3 MG/L AS NO3	15	7.300	0.700	2.933	7.300	4.700	2.100	1.200	0.700
00620	NITROGEN NITRATE MG/L AS N	15	0.000	--	--	--	--	--	--	--
71850	N, NITRATE TOTAL MG/L AS NO3	6	5.800	0.700	2.017	5.800	3.025	1.250	0.925	0.700
00630	NO2 + NO3 TOTAL (MG/L AS N)	15	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	15	6.000	0.000	0.467	6.000	0.000	0.000	0.000	0.000
00607	NITROGEN ORGANIC (MG/L AS N)	15	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	15	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	15	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	15	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	15	0.000	--	--	--	--	--	--	--
00650	PHOSPHATE TOTAL (MG/L AS PO4)	15	1.000	0.000	0.377	1.000	0.640	0.320	0.060	0.000
00672	PHOSPHORUS HYDRO (MG/L AS P)	15	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	15	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	15	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	15	0.000	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	15	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	15	38.000	0.000	11.387	38.000	14.000	8.900	6.000	0.000
00690	CARBON INORG + O (MG/L AS C)	15	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	15	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	15	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	15	0.000	--	--	--	--	--	--	--
01105	ALUMINUM TOTAL UG/L AS AL	12	800.000	100.000	366.667	800.000	400.000	400.000	225.000	100.000
01020	BORON DISSOLVED (UG/L AS B)	15	320.000	90.000	226.667	320.000	290.000	220.000	190.000	90.000
01022	BORON TOTAL (UG/L AS B)	6	320.000	100.000	218.333	320.000	297.500	205.000	167.500	100.000
71885	IRON UG/L AS FE	13	950.000	30.000	132.308	950.000	90.000	60.000	30.000	30.000
01045	IRON TOTAL (UG/L AS FE)	6	950.000	30.000	198.333	950.000	290.000	55.000	30.000	30.000
01055	MANGANESE TOTAL (UG/L AS MN)	13	310.000	10.000	123.077	310.000	190.000	100.000	50.000	10.000
80156	SUS-SED DISCH + T/DAY	15	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	15	0.000	--	--	--	--	--	--	--

Supplement 2. Statistical summary of water-quality data for the Bois de Sioux River near White Rock, S. Dak., gaging station 05050000, November 1963 through November 1995--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data; multiple detection limits during the period of record may result in varying values flagged with a <]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			South Dakota data, June 1989 through November 1995							
00065	GAGE HEIGHT (FEET)	1	9.060	--	--	--	--	--	--	--
00061	DISCHARGE, INST. CFS	1	790.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	1	1.150	--	--	--	--	--	--	--
70300	RESIDUE DIS 180C MG/L	1	844.000	--	--	--	--	--	--	--
70301	DISSOLVED SOLIDS MG/L	1	759.000	--	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	1	731.000	--	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	1	13.300	--	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	1	95.000	--	--	--	--	--	--	--
00400	PH, WH, FIELD (STANDARD UNIT	1	7.500	--	--	--	--	--	--	--
00403	PH, WH, LABORATO (STANDARD UNIT	1	7.400	--	--	--	--	--	--	--
90095	SPECIFIC CONDUCT MICROSIEMENS/C	1	1110.000	--	--	--	--	--	--	--
00095	SPECIFIC CONDUCT US/CM @ 25C	1	1130.000	--	--	--	--	--	--	--
00020	AIR TEMPERATURE DEGREES C	1	-3.000	--	--	--	--	--	--	--
00010	WATER TEMPERATUR (DEGREES C)	1	0.000	--	--	--	--	--	--	--
00904	HARDNESS NC. DIS (MG/L AS CACO3	1	300.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	1	510.000	--	--	--	--	--	--	--
00915	CALCIUM DISSOLVE (MG/L AS CA)	1	100.000	--	--	--	--	--	--	--
00925	MAGNESIUM DISSOL (MG/L AS MG)	1	62.000	--	--	--	--	--	--	--
00935	POTASSIUM DISSOL (MG/L AS K)	1	11.000	--	--	--	--	--	--	--
00931	SODIUM ADSORPTIO (RATIO)	1	0.700	--	--	--	--	--	--	--
00930	SODIUM DISSOLVED (MG/L AS NA)	1	38.000	--	--	--	--	--	--	--
00932	SODIUM, PERCENT PERCENT	1	14.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	1	192.000	--	--	--	--	--	--	--
00418	ALKALINITY,DIS,F (MG/L AS CACO3	1	206.000	--	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	1	206.000	--	--	--	--	--	--	--
00453	BICARBONATE,DIS, (MG/L AS HCO3)	1	251.000	--	--	--	--	--	--	--
00452	CARBONATE,DIS,IT (MG/L AS CO3)	1	0.000	--	--	--	--	--	--	--
00940	CHLORIDE DISSOLV (MG/L AS CL)	1	17.000	--	--	--	--	--	--	--
00950	FLUORIDE DISSOLV (MG/L AS F)	1	0.200	--	--	--	--	--	--	--
00955	SILICA DISSOLVED (MG/L AS SIO2)	1	23.000	--	--	--	--	--	--	--
00945	SULFATE DISSOLVE (MG/L AS SO4)	6	740.600	361.000	515.867	740.600	641.150	502.800	375.250	361.000
00608	NITROGEN AMMONIA (MG/L AS N)	4	0.200	0.080	--	--	--	--	--	--
00625	NITROGEN AMM+ORG (MG/L AS N)	1	1.600	--	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	4	0.260	0.100	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	1	0.720	--	--	--	--	--	--	--

Supplement 2. Statistical summary of water-quality data for the Bois de Sioux River near White Rock, S. Dak., gaging station 05050000, November 1963 through November 1995--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data; multiple detection limits during the period of record may result in varying values flagged with a <]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	South Dakota data, June 1989 through November 1995--Continued									
71851	NITR. NO3 AS NO3 MG/L AS NO3	1	3.190	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	1	0.740	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	3	0.100	<0.040	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	1	0.066	--	--	--	--	--	--	--
00613	NITROGEN,NITRITE MG/L AS N	1	0.020	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	1	1.400	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	4	2.650	1.870	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	1	0.491	--	--	--	--	--	--	--
00666	PHOSPHORUS DISS. (MG/L AS P)	4	0.575	0.134	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	1	0.160	--	--	--	--	--	--	--
00665	PHOSPHORUS TOTAL (MG/L AS P)	4	0.450	0.256	--	--	--	--	--	--
00633	NO2 + NO3 BOT. M (MG/KG AS N)	1	0.110	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	1	12.000	--	--	--	--	--	--	--
00680	CARBON ORGANIC T (MG/L AS C)	3	19.100	15.400	--	--	--	--	--	--
31625	COLIFORM FECAL 0 COLS./100 ML	1	29.000	--	--	--	--	--	--	--
31673	FECAL STREP,KF M COLS./100 ML	1	120.000	--	--	--	--	--	--	--
70953	CHL-A PHY CHROMA UG/L	1	51.100	--	--	--	--	--	--	--
01106	ALUMINUM DISSOLV (UG/L AS AL)	1	<10.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	1	6.000	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	1	130.000	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	1	8.000	--	--	--	--	--	--	--
01056	MANGANESE DISSOL (UG/L AS MN)	1	22.000	--	--	--	--	--	--	--
01145	SELENIUM DISSOLV (UG/L AS SE)	1	1.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	3	19.100	10.100	--	--	--	--	--	--

Supplement 3. Statistical summary of water-quality data for the Bois de Sioux River near Doran, Minn., gaging station 05051300, March 1993 through August 1995

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, March 1993 through August 1995							
00060	DISCHARGE CFS	10	3300.000	4.500	705.280	3300.000	1292.500	250.000	5.675	4.500
00061	DISCHARGE, INST. CFS	16	3420.000	2.700	947.669	3420.000	1492.500	903.500	192.250	2.700
70303	RESIDUE DIS TON/ T/AC-FT	24	2.500	0.300	1.200	2.450	1.650	1.050	0.700	0.350
70302	DISSOLVED SOLIDS TONS/DAY	17	2680.000	8.900	1420.935	2680.000	2170.000	1660.000	647.500	8.900
70300	RESIDUE DIS 180C MG/L	26	1860.000	250.000	859.423	1804.000	1152.500	760.000	528.000	282.550
70301	DISSOLVED SOLIDS MG/L	24	1680.000	233.000	801.208	1640.000	1090.000	690.500	487.750	253.500
00025	AIR PRESSURE (MM OF HG)	23	747.000	722.000	736.130	745.800	740.000	737.000	734.000	723.600
00300	OXYGEN DISSOLVED (MG/L)	23	13.400	2.800	8.696	13.280	11.800	8.800	5.400	3.160
00301	OXYGEN DIS. PERC % OF SATURATIO	22	134.000	31.800	79.455	132.350	93.425	81.200	61.875	31.980
00400	PH, WH, FIELD (STANDARD UNIT	25	8.900	6.800	8.000	8.870	8.250	7.900	7.750	6.980
00403	PH, WH, LABORATO (STANDARD UNIT	26	8.300	7.100	7.658	8.230	8.000	7.600	7.300	7.135
90095	SPECIFIC CONDUCT MICROSIEMENS/C	26	2280.000	383.000	1129.615	2213.500	1427.500	1014.500	759.250	423.950
00095	SPECIFIC CONDUCT US/CM @ 25C	25	2270.000	384.000	1105.280	2162.000	1440.000	985.000	740.000	417.600
00020	AIR TEMPERATURE DEGREES C	26	24.500	-20.500	9.858	23.800	18.750	12.750	1.000	-14.200
00010	WATER TEMPERATUR (DEGREES C)	26	24.000	0.000	11.327	23.300	20.125	12.250	1.000	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	24	690.000	81.000	321.917	663.500	452.750	291.000	207.250	92.500
00900	HARDNESS TOTAL (MG/L AS CAO3)	25	1130.000	146.000	544.760	1121.000	722.500	497.000	354.500	162.500
00915	CALCIUM DISSOLVE (MG/L AS CA)	25	220.000	32.000	105.120	217.000	130.000	95.000	76.500	36.200
00925	MAGNESIUM DISSOL (MG/L AS MG)	25	140.000	16.000	68.480	140.000	96.500	63.000	40.000	17.500
00935	POTASSIUM DISSOL (MG/L AS K)	25	25.000	0.100	11.620	23.500	15.000	10.000	8.200	1.990
00931	SODIUM ADSORPTIO (RATIO)	25	1.500	0.458	0.807	1.431	1.014	0.794	0.574	0.462
00930	SODIUM DISSOLVED (MG/L AS NA)	25	100.000	15.000	45.200	99.400	62.500	42.000	23.500	15.300
00932	SODIUM, PERCENT PERCENT	24	20.000	10.500	14.542	19.375	15.875	14.500	13.400	10.825
90410	ANC, TIT. 4.5, L MG/L AS CACO3	26	582.000	62.000	223.962	542.800	268.000	197.000	140.750	70.400
39086	ALKALINITY,DIS,I (MG/L AS CACO3	25	546.000	65.000	212.880	507.600	262.500	185.000	134.000	68.000
00453	BICARBONATE,DIS, (MG/L AS HCO3)	25	666.000	79.000	253.400	619.200	320.000	222.000	156.000	82.600
00452	CARBONATE,DIS,IT (MG/L AS CO3)	25	29.000	0.000	3.200	28.400	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	26	47.000	7.400	19.212	44.550	22.500	17.000	11.000	7.540
00950	FLUORIDE DISSOLV (MG/L AS F)	26	0.500	0.100	0.231	0.430	0.300	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	25	37.000	0.500	13.828	34.300	16.500	12.000	8.400	1.340
00945	SULFATE DISSOLVE (MG/L AS SO4)	26	790.000	85.000	389.808	779.500	585.000	350.000	220.000	100.750
00608	NITROGEN AMMONIA (MG/L AS N)	26	1.600	0.010	0.228	1.495	0.255	0.080	0.030	0.013
00623	NITRO AMN & ORG (MG/L AS N)	26	3.100	0.600	1.327	3.065	1.400	1.200	1.000	0.670
00625	NITROGEN AMM+ORG (MG/L AS N)	26	3.300	0.900	1.612	3.230	1.900	1.400	1.200	0.935
71846	NITR. NH4 AS NH4 MG/L AS NH4	25	2.060	0.026	0.305	1.943	0.335	0.103	0.039	0.026

Supplement 3. Statistical summary of water-quality data for the Bois de Sioux River near Doran, Minn., gaging station 05051300, March 1993 through August 1995--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, March 1993 through August 1995--Continued							
00602	NITROGEN DISSOLV (MG/L AS N)	17	6.600	0.976	2.704	6.600	4.030	1.840	1.325	0.976
00618	NITROGEN NITRATE (MG/L AS N)	15	4.890	0.041	1.438	4.890	3.550	0.550	0.130	0.041
71851	NITR. NO3 AS NO3 MG/L AS NO3	15	21.600	0.181	6.359	21.600	15.700	2.430	0.575	0.181
00631	NO2 + NO3 DISSOL (MG/L AS N)	26	5.200	--	*0.887	*5.165	*0.880	*0.098	*0.015	*0.001
71856	NITR. NO2 AS NO2 MG/L AS NO2	18	1.020	0.033	0.245	1.020	0.271	0.099	0.058	0.033
00613	NITROGEN,NITRITE MG/L AS N	26	0.310	--	*0.052	*0.299	*0.050	*0.020	*0.005	*0.001
00607	NITROGEN ORGANIC (MG/L AS N)	25	1.800	0.570	1.107	1.749	1.220	1.070	0.980	0.615
00605	NITROGEN ORGANIC (MG/L AS N)	25	2.280	0.810	1.363	2.136	1.660	1.270	1.170	0.858
00600	NITROGEN TOTAL (MG/L AS N)	17	6.900	1.180	2.957	6.900	4.230	2.040	1.620	1.180
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	26	2.270	0.031	0.741	2.270	1.328	0.536	0.207	0.031
00666	PHOSPHORUS DISS. (MG/L AS P)	26	0.810	0.030	0.267	0.778	0.460	0.200	0.070	0.034
00671	PHOSPHORUS ORTHO (MG/L AS P)	26	0.740	0.010	0.242	0.740	0.433	0.175	0.068	0.010
00665	PHOSPHORUS TOTAL (MG/L AS P)	26	1.300	0.070	0.365	1.181	0.510	0.295	0.168	0.077
00405	CARBON DIOXIDE D (MG/L AS CO2)	25	38.700	0.400	7.772	37.950	7.600	3.300	1.850	0.460
00681	CARBON ORGANIC D (MG/L AS C)	12	18.000	11.000	13.417	18.000	15.000	13.000	12.000	11.000
00689	CARBON ORGANIC P (MG/L AS C)	12	5.000	0.300	1.475	5.000	1.850	1.050	0.400	0.300
01046	IRON DISSOLVED (UG/L AS FE)	25	870.000	0.000	60.000	648.001	40.000	20.000	10.000	0.000
01056	MANGANESE DISSOL (UG/L AS MN)	25	4700.000	11.000	372.880	3890.002	160.000	60.000	29.500	11.300
49295	1-NAPHTHOL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
39742	2,4,5-T DISSOLVE UG/L	3	--	--	--	--	--	--	--	--
39732	2,4-D DISSOLVED UG/L	3	--	--	--	--	--	--	--	--
38746	2,4-DB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82660	26DIETHYLANILINE (UG/L)	3	--	--	--	--	--	--	--	--
49308	3HYDRXYCARBOFURA (UG/L)	3	--	--	--	--	--	--	--	--
49260	ACETOCHLOR FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49315	ACIFLUORFEN FLTR (UG/L)	3	--	--	--	--	--	--	--	--
46342	ALACHLOR, DISS, UG/L	3	--	--	--	--	--	--	--	--
49313	ALDICARB SULFONE (UG/L)	3	--	--	--	--	--	--	--	--
49314	ALDICARB SULFOXI (UG/L)	3	--	--	--	--	--	--	--	--
49312	ALDICARB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
34253	ALPHA BHC UG/L	3	--	--	--	--	--	--	--	--
39632	ATRAZINE, DISS, UG/L	3	0.230	0.120	--	--	--	--	--	--
82673	BENFLURALIN FIL (UG/L)	3	--	--	--	--	--	--	--	--
38711	BENTAZON, FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
04029	BROMACIL DISS RE (UG/L)	3	--	--	--	--	--	--	--	--

Supplement 3. Statistical summary of water-quality data for the Bois de Sioux River near Doran, Minn., gaging station 05051300, March 1993 through August 1995--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less thaa or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, March 1993 through August 1995--Continued							
49311	BROMOXYNIL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
04028	BUTYLATE DISS RE (UG/L)	3	--	--	--	--	--	--	--	--
49310	CARBARYL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82680	CARBARYL FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
49309	CARBOFURAN FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82674	CARBOFURAN FIL. (UG/L)	3	--	--	--	--	--	--	--	--
61188	CHLORAMBEN, METH (UG/L)	3	--	--	--	--	--	--	--	--
49306	CHLOROTHALONIL F (UG/L)	3	--	--	--	--	--	--	--	--
38933	CHLORPYRIFOS, DI UG/L	3	--	--	--	--	--	--	--	--
49305	CLOPYRALID FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
04041	CYANAZINE DISS R (UG/L)	3	0.160	0.025	--	--	--	--	--	--
49304	DACTHAL MONO-ACI (UG/L)	3	--	--	--	--	--	--	--	--
82682	DCPA FIL 0.7 REC (UG/L)	3	--	--	--	--	--	--	--	--
04040	DEETHYL ATRAZINE (UG/L)	3	0.034	0.016	--	--	--	--	--	--
39572	DIAZINON DISSOLV UG/L	3	--	--	--	--	--	--	--	--
38442	DICAMBA FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49303	DICHLOBENIL FLTR (UG/L)	3	--	--	--	--	--	--	--	--
49302	DICHLORPRO FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
39381	DIELDRIN DISSOLV UG/L	3	--	--	--	--	--	--	--	--
49301	DINOSEB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82677	DISULFOTON FIL. (UG/L)	3	--	--	--	--	--	--	--	--
49300	DIURON FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49299	DNOC FLTD (UG/L)	3	--	--	--	--	--	--	--	--
82668	EPTC FIL 0.7 REC (UG/L)	3	--	--	--	--	--	--	--	--
49298	ESFENVALERATE FL (UG/L)	3	--	--	--	--	--	--	--	--
82663	ETHALFLURALIN FI (UG/L)	3	--	--	--	--	--	--	--	--
82672	ETHOPROP FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
49297	FENURON FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
38811	FLUOMETURON FLT (UG/L)	3	--	--	--	--	--	--	--	--
04095	FONOFOX DISS REC (UG/L)	3	--	--	--	--	--	--	--	--
39341	LINDANE DISSOLVE UG/L	3	--	--	--	--	--	--	--	--
38478	LINURON FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82666	LINURON FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
39532	MALATHION DISSOL UG/L	3	--	--	--	--	--	--	--	--
38482	MCPA FLTRD (UG/L)	3	--	--	--	--	--	--	--	--

Supplement 3. Statistical summary of water-quality data for the Bois de Sioux River near Doran, Minn., gaging station 05051300, March 1993 through August 1995--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, March 1993 through August 1995--Continued							
38487	MCPB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
38501	METHIOCARB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49296	METHOMYL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82686	METHYL AZINPHOS (UG/L)	3	--	--	--	--	--	--	--	--
82667	METHYL PARATHION (UG/L)	3	--	--	--	--	--	--	--	--
39415	METOLACHLOR,WAT. UG/L	3	0.160	0.008	--	--	--	--	--	--
82630	METRIBUZIN,WAT.D UG/L	3	--	--	--	--	--	--	--	--
82671	MOLINATE FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
82684	NAPROPAMIDE FIL (UG/L)	3	--	--	--	--	--	--	--	--
49294	NEBURON FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49293	NORFLURAZON FLTR (UG/L)	3	--	--	--	--	--	--	--	--
49292	ORYZALIN FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
38866	OXAMYL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
34653	P,P' DDE DISSOLV (UG/L)	3	--	--	--	--	--	--	--	--
39542	PARATHION DISSOL UG/L	3	--	--	--	--	--	--	--	--
82669	PEBULATE FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
82683	PENDIMETHALIN F. (UG/L)	3	--	--	--	--	--	--	--	--
82687	PERMETHRIN FIL. (UG/L)	3	--	--	--	--	--	--	--	--
82664	PHORATE FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
49291	PICLORAM FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
04037	PROMETON DISS RE (UG/L)	3	--	--	--	--	--	--	--	--
82676	PRONAMIDE FIL .7 (UG/L)	3	--	--	--	--	--	--	--	--
04024	PROPACHLOR DISS (UG/L)	3	--	--	--	--	--	--	--	--
82679	PROPANIL FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
82685	PROPARGITE FIL. (UG/L)	3	--	--	--	--	--	--	--	--
49236	PROPHAM FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
38538	PROPOXUR FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
39762	SILVEX DISSOLVED UG/L	3	--	--	--	--	--	--	--	--
04035	SIMAZINE DISS RE (UG/L)	3	--	--	--	--	--	--	--	--
82670	TEBUTHIURON FIL (UG/L)	3	--	--	--	--	--	--	--	--
82665	TERBACIL FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
82675	TERBUFOS FIL 0.7 (UG/L)	3	--	--	--	--	--	--	--	--
91064	TERBUTHYLAZINE S (PERCENT)	3	112.000	85.600	--	--	--	--	--	--
82681	THIOBENCARB FIL (UG/L)	3	--	--	--	--	--	--	--	--
82678	TRIALLATE FIL .7 (UG/L)	3	--	--	--	--	--	--	--	--

Supplement 3. Statistical summary of water-quality data for the Bois de Sioux River near Doran, Minn., gaging station 05051300, March 1993 through August 1995--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, March 1993 through August 1995--Continued							
49235	TRICLOPYR FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82661	TRIFLURALIN FIL (UG/L)	3	--	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	24	100.000	76.000	95.833	100.000	99.000	97.500	93.750	78.000
80154	CONCENTRATION,S. MG/L	24	159.000	7.000	41.042	142.500	66.000	32.000	13.500	7.000
80155	DISCHARGE,SUSP.S T/DAY	18	648.000	0.150	124.374	648.000	135.250	61.000	10.275	0.150

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 4. Statistical summary of water-quality data for the Red River of the North at Wahpeton, N. Dak., gaging station 05051500, October 1971 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, October 1971 through April 2001									
00065	GAGE HEIGHT (FEET)	1	5.910	--	--	--	--	--	--	--
00060	DISCHARGE CFS	28	2780.000	74.000	765.393	2442.500	968.000	511.000	322.250	102.350
00061	DISCHARGE, INST. CFS	278	10800.000	1.700	1107.728	4852.999	1197.500	482.000	232.000	38.800
00540	RESIDUE FIXED (MG/L)	308	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	308	287.000	0.000	1.005	0.470	0.000	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	308	8280.000	0.000	209.624	1132.498	0.000	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	55	601.000	177.000	305.673	464.200	344.000	293.000	252.000	202.600
70301	DISSOLVED SOLIDS MG/L	308	563.000	0.000	52.721	328.400	0.000	0.000	0.000	0.000
00025	AIR PRESSURE (MM OF HG)	2	775.000	738.000	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	2	13.600	13.000	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	308	93.000	0.000	0.302	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	57	8.800	7.200	8.068	8.620	8.300	8.100	7.850	7.390
00403	PH, WH, LABORATO (STANDARD UNIT	31	9.100	6.600	7.906	8.860	8.200	8.000	7.700	6.720
00094	FIELD CONDUCTIVI US/CM @ 25C	19	615.000	271.000	475.947	615.000	542.000	479.000	408.000	271.000
90095	SPECIFIC CONDUCT MICROSIEMENS/C	18	866.000	416.000	553.333	866.000	607.000	543.500	467.000	416.000
00095	SPECIFIC CONDUCT US/CM @ 25C	297	1050.000	123.000	536.343	777.300	608.500	520.000	449.000	365.000
00020	AIR TEMPERATURE DEGREES C	170	31.000	-28.500	9.322	27.225	19.125	10.250	1.000	-12.225
00010	WATER TEMPERATUR (DEGREES C)	303	30.000	0.000	9.778	25.500	19.000	7.500	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	308	14.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	308	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	308	110.000	0.000	2.049	2.750	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	308	21.000	0.000	0.127	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	308	390.000	0.000	42.532	260.000	0.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	55	70.000	27.000	46.164	64.400	54.000	45.000	38.000	33.600
00925	MAGNESIUM DISSOL (MG/L AS MG)	55	51.000	10.000	29.709	40.000	33.000	30.000	28.000	14.600
00935	POTASSIUM DISSOL (MG/L AS K)	55	15.000	1.700	5.236	8.320	6.300	5.000	3.800	2.580
00931	SODIUM ADSORPTIO (RATIO)	308	0.700	0.000	0.067	0.400	0.000	0.000	0.000	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	55	33.000	4.500	13.313	22.000	16.000	13.000	10.000	5.940
00932	SODIUM, PERCENT PERCENT	308	16.000	0.000	1.847	11.000	0.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	308	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	38	240.000	70.000	186.605	222.900	210.750	199.500	167.500	110.850
00418	ALKALINITY,DIS,F (MG/L AS CACO3	1	232.000	--	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	1	238.000	--	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	16	235.000	85.000	177.125	235.000	220.250	197.000	129.250	85.000
95440	BICARBONATE MG/L AS CACO3	24	290.000	86.000	230.250	287.500	267.500	245.000	195.000	104.500

Supplement 4. Statistical summary of water-quality data for the Red River of the North at Wahpeton, N. Dak., gaging station 05051500, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, October 1971 through April 2001--Continued								
00453	BICARBONATE,DIS, (MG/L AS HCO3)	1	290.000	--	--	--	--	--	--	--
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	16	290.000	100.000	215.625	290.000	270.000	240.000	155.000	100.000
95445	CARBONATE MG/L AS CO3	24	9.000	0.000	1.167	8.750	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	1	0.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	16	5.000	0.000	0.500	5.000	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	55	22.000	1.700	10.465	19.000	13.000	11.000	7.000	3.980
00950	FLUORIDE DISSOLV (MG/L AS F)	55	0.700	0.100	0.151	0.220	0.200	0.100	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	44	21.000	1.100	11.755	18.750	15.750	13.000	7.600	2.000
00945	SULFATE DISSOLVE (MG/L AS SO4)	55	230.000	15.000	68.800	156.000	95.000	60.000	32.000	15.800
00608	NITROGEN AMMONIA (MG/L AS N)	1	0.210	--	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	1	1.100	--	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	308	0.270	0.000	0.001	0.000	0.000	0.000	0.000	0.000
71845	NITROGEN, NH4, T MG/L AS NH4	308	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	308	1.500	0.000	0.005	0.000	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	308	1.700	0.000	0.021	0.088	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	308	7.400	0.000	0.099	1.000	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	308	0.000	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	1	0.430	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	308	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	308	0.066	0.000	0.000	0.000	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	1	0.020	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	308	0.890	0.000	0.003	0.000	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	308	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	308	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	308	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	308	1.100	0.000	0.011	0.000	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	308	0.000	--	--	--	--	--	--	--
00666	PHOSPHORUS DISS. (MG/L AS P)	1	0.060	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	308	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	308	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	308	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	308	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	5	0.100	0.029	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	308	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	308	27.000	0.000	0.688	3.955	0.000	0.000	0.000	0.000

Supplement 4. Statistical summary of water-quality data for the Red River of the North at Wahpeton, N. Dak., gaging station 05051500, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
00681	CARBON ORGANIC D (MG/L AS C)	1	8.800	--	--	--	--	--	--	--
00689	CARBON ORGANIC P (MG/L AS C)	1	0.800	--	--	--	--	--	--	--
00690	CARBON INORG + O (MG/L AS C)	308	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	308	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	308	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	308	0.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	38	7.000	1.000	3.447	5.100	5.000	3.000	2.000	1.000
01005	BARIUM DISSOLVED (UG/L AS BA)	1	76.000	--	--	--	--	--	--	--
01010	BERYLLIUM DISSOL (UG/L AS BE)	1	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	44	1600.000	--	*116.396	*277.500	*107.500	*60.000	*42.500	*13.282
01025	CADMIUM DISSOLVE (UG/L AS CD)	1	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	1	--	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	1	--	--	--	--	--	--	--	--
01040	COPPER DISSOLVED (UG/L AS CU)	1	--	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	55	220.000	10.000	42.909	124.000	50.000	30.000	20.000	10.000
01049	LEAD DISSOLVED (UG/L AS PB)	38	3.000	--	*0.625	*2.050	*1.000	*0.472	*0.283	*0.132
01130	LITHIUM DISSOLVE (UG/L AS LI)	38	50.000	8.000	20.737	40.500	25.250	20.000	13.000	9.900
01056	MANGANESE DISSOL (UG/L AS MN)	55	110.000	--	*30.677	*102.000	*40.000	*20.000	*10.000	*3.700
71890	MERCURY DISSOLVE UG/L AS HG	38	1.000	--	*0.140	*0.715	*0.125	*0.100	*0.036	*0.012
01060	MOLYBDENUM DISSO (UG/L AS MO)	37	8.000	--	*1.294	*5.300	*1.000	*1.000	*0.525	*0.239
01065	NICKEL DISSOLVED (UG/L AS NI)	1	--	--	--	--	--	--	--	--
01145	SELENIUM DISSOLV (UG/L AS SE)	38	2.000	--	*0.631	*2.000	*0.837	*0.490	*0.299	*0.143
01075	SILVER DISSOLVED (UG/L AS AG)	1	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	38	400.000	85.000	214.079	362.000	262.500	205.000	175.000	89.750
01085	VANADIUM DISSOLV (UG/L AS V)	1	--	--	--	--	--	--	--	--
01090	ZINC DISSOLVED (UG/L AS ZN)	1	8.000	--	--	--	--	--	--	--
82082	HYDROGEN 2/1 R RATIO PER MIL	1	-58.000	--	--	--	--	--	--	--
07060	IRON 59 DISSOLVE (PCI/L)	2	2.000	1.000	--	--	--	--	--	--
82085	OXYGEN 18/16 R RATIO PER MIL	1	-6.800	--	--	--	--	--	--	--
07000	TRITIUM TOTAL (PCI/L)	1	64.000	--	--	--	--	--	--	--
75985	TRITIUM PREC EST PCI/L	1	6.400	--	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	308	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	308	0.000	--	--	--	--	--	--	--

Supplement 4. Statistical summary of water-quality data for the Red River of the North at Wahpeton, N. Dak., gaging station 05051500, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, August 1992 through August 1997							
80294	BED MAT FD DW<.0 PERCENT <.002M	1	15.000	--	--	--	--	--	--	--
80157	SED-BED-FALL-D-. %	1	17.000	--	--	--	--	--	--	--
80293	BED MAT FD DW<.0 PERCENT> .008M	1	18.000	--	--	--	--	--	--	--
80282	BED MAT FD DW<.0 PERCENT <.016M	1	21.000	--	--	--	--	--	--	--
80283	BED MAT FD DW<.0 PERCENT <.031M	1	30.000	--	--	--	--	--	--	--
80158	SED-BED-FALL-D-. %	1	52.000	--	--	--	--	--	--	--
80159	SED-BED-FALL-D-. %	1	86.000	--	--	--	--	--	--	--
80160	SED-BED-FALL-D-. %	1	98.000	--	--	--	--	--	--	--
80161	SED-BED-FALL-D-. %	1	100.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 5. Statistical summary of water-quality data for the Red River of the North at Hickson, N. Dak., gaging station 05051522, November 1975 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, November 1975 through April 2001									
00065	GAGE HEIGHT (FEET)	6	12.040	--	*10.745	*12.040	*11.530	*10.639	*9.932	*9.820
00060	DISCHARGE CFS	14	6000.000	483.000	1556.143	6000.000	1895.000	929.500	714.500	483.000
00061	DISCHARGE, INST. CFS	265	14100.000	2.900	1461.276	6854.000	1565.000	524.000	250.000	65.300
00310	BOD 5-DAY AT 20 (MG/L)	21	3.000	--	*1.663	*2.900	*2.000	*2.000	*1.000	*0.773
00340	COD HIGH LEVEL M (MG/L)	1	19.000	--	--	--	--	--	--	--
00080	COLOR PLATINUM-COBAL	71	320.000	1.000	25.451	90.000	25.000	13.000	10.000	4.200
00540	RESIDUE FIXED (MG/L)	281	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	281	1.600	0.000	0.197	0.580	0.410	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	281	6530.000	0.000	359.717	1696.000	307.000	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	95	1180.000	168.000	358.032	598.000	391.000	329.000	287.000	244.400
70301	DISSOLVED SOLIDS MG/L	281	1150.000	0.000	140.050	417.500	298.500	0.000	0.000	0.000
00070	TURBIDITY (JCU)	32	70.000	3.000	20.750	63.500	31.500	17.500	5.000	3.000
00076	TURBIDITY (NTU)	38	120.000	1.900	27.405	89.600	42.500	18.000	3.475	1.995
00025	AIR PRESSURE (MM OF HG)	35	775.000	718.000	739.600	771.000	742.000	738.000	734.000	724.400
00300	OXYGEN DISSOLVED (MG/L)	83	18.600	0.600	9.490	15.140	11.600	9.200	7.200	5.080
00301	OXYGEN DIS. PERC % OF SATURATIO	281	116.000	0.000	15.943	95.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	117	9.400	7.200	8.126	8.600	8.400	8.200	7.950	7.400
00403	PH, WH, LABORATO (STANDARD UNIT	59	9.100	6.700	7.986	8.500	8.300	8.100	7.800	6.900
90095	SPECIFIC CONDUCT MICROSIEMENS/C	68	909.000	261.000	539.029	712.950	623.500	521.000	461.250	371.650
00095	SPECIFIC CONDUCT US/CM @ 25C	271	1590.000	47.000	554.720	752.600	610.000	540.000	480.000	377.200
00020	AIR TEMPERATURE DEGREES C	188	34.000	-25.000	11.054	29.775	21.500	11.050	2.125	-9.650
00010	WATER TEMPERATUR (DEGREES C)	274	32.000	-1.000	10.575	25.500	20.000	9.000	0.650	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	281	68.000	0.000	0.242	0.000	0.000	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	281	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	281	210.000	0.000	10.964	86.800	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	281	55.000	0.000	0.594	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	281	800.000	0.000	114.100	329.000	250.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	118	140.000	21.000	52.164	72.150	58.250	50.000	43.000	36.950
00925	MAGNESIUM DISSOL (MG/L AS MG)	118	110.000	9.500	34.235	46.100	37.000	33.000	29.000	25.000
00935	POTASSIUM DISSOL (MG/L AS K)	118	24.000	1.300	6.225	14.290	6.625	5.450	4.600	3.700
00931	SODIUM ADSORPTIO (RATIO)	281	1.000	0.000	0.175	0.600	0.400	0.000	0.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	9	33.000	13.000	20.444	33.000	26.500	18.000	15.000	13.000
00930	SODIUM DISSOLVED (MG/L AS NA)	118	92.000	6.800	16.359	26.300	19.000	15.000	11.000	7.595
00932	SODIUM, PERCENT PERCENT	281	20.000	0.000	4.651	14.000	10.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	281	0.000	--	--	--	--	--	--	--

Supplement 5. Statistical summary of water-quality data for the Red River of the North at Hickson, N. Dak., gaging station 05051522, November 1975 through April 2001--Continued

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	North Dakota data, November 1975 through April 2001--Continued									
90410	ANC, TIT. 4.5, L MG/L AS CACO3	68	290.000	70.000	201.235	251.100	218.750	203.500	188.500	116.650
00418	ALKALINITY,DIS,F (MG/L AS CACO3	1	207.000	--	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	1	208.000	--	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	49	645.000	76.000	229.490	391.000	248.000	220.000	185.000	145.000
00417	ANC, FET, LAB (MG/L AS CACO3	2	237.000	194.000	--	--	--	--	--	--
95440	BICARBONATE MG/L AS CACO3	12	350.000	85.000	237.917	350.000	260.000	245.000	215.000	85.000
00453	BICARBONATE,DIS, (MG/L AS HCO3)	1	254.000	--	--	--	--	--	--	--
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	33	790.000	150.000	290.606	643.000	300.000	270.000	250.000	178.000
95445	CARBONATE MG/L AS CO3	12	11.000	0.000	0.917	11.000	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	1	0.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	30	5.000	0.000	0.433	4.450	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	118	44.000	1.000	11.118	23.050	13.450	9.950	7.625	4.550
00950	FLUORIDE DISSOLV (MG/L AS F)	97	0.600	0.100	0.180	0.300	0.200	0.200	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	87	21.000	0.100	11.866	19.000	16.000	12.000	7.900	3.680
00945	SULFATE DISSOLVE (MG/L AS SO4)	118	340.000	5.400	79.062	200.000	110.750	64.000	34.500	17.760
00608	NITROGEN AMMONIA (MG/L AS N)	1	0.150	--	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	1	1.000	--	--	--	--	--	--	--
00625	NITROGEN AMM+ORG (MG/L AS N)	92	4.800	0.060	1.175	2.070	1.400	1.200	0.740	0.293
71846	NITR. NH4 AS NH4 MG/L AS NH4	281	0.190	0.000	0.001	0.000	0.000	0.000	0.000	0.000
00610	NITROGEN AMMONIA (MG/L AS N)	91	0.660	--	*0.116	*0.514	*0.140	*0.050	*0.010	*0.003
71845	NITROGEN, NH4, T MG/L AS NH4	281	0.850	0.000	0.048	0.330	0.010	0.000	0.000	0.000
00602	NITROGEN DISSOLV (MG/L AS N)	281	1.500	0.000	0.005	0.000	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	281	0.510	0.000	0.002	0.000	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	281	2.260	0.000	0.008	0.000	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	281	1.240	0.000	0.011	0.000	0.000	0.000	0.000	0.000
00631	NO2 + NO3 DISSOL (MG/L AS N)	71	2.200	--	*0.211	*0.746	*0.280	*0.100	*0.021	*0.010
00630	NO2 + NO3 TOTAL (MG/L AS N)	258	2.300	--	*0.103	*0.400	*0.078	*0.024	*0.007	*0.001
71856	NITR. NO2 AS NO2 MG/L AS NO2	281	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	1	0.010	--	--	--	--	--	--	--
00615	NITROGEN,NITRITE MG/L AS N	21	0.060	--	*0.017	*0.060	*0.020	*0.010	*0.005	*0.002
00607	NITROGEN ORGANIC (MG/L AS N)	281	0.850	0.000	0.003	0.000	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	281	3.700	0.000	0.312	1.400	0.605	0.000	0.000	0.000
00600	NITROGEN TOTAL (MG/L AS N)	281	4.800	0.000	0.433	1.800	0.780	0.000	0.000	0.000
71887	NITROGEN, TOTAL MG/L AS NO3	281	21.000	0.000	1.849	7.990	3.250	0.000	0.000	0.000
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	281	0.061	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Supplement 5. Statistical summary of water-quality data for the Red River of the North at Hickson, N. Dak., gaging station 05051522, November 1975 through April 2001--Continued

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00650	PHOSPHATE TOTAL (MG/L AS PO4)	281	2.730	0.000	0.072	0.368	0.000	0.000	0.000	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	92	0.840	0.010	0.097	0.240	0.120	0.078	0.050	0.016
00678	PHOSPHORUS HYDRO (MG/L AS P)	58	1.100	0.000	0.147	0.361	0.190	0.120	0.070	0.030
00672	PHOSPHORUS HYDRO (MG/L AS P)	281	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	281	0.240	0.000	0.014	0.110	0.000	0.000	0.000	0.000
00673	PHOSPHORUS ORG. (MG/L AS P)	281	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	281	0.800	0.000	0.010	0.060	0.000	0.000	0.000	0.000
00671	PHOSPHORUS ORTHO (MG/L AS P)	1	0.020	--	--	--	--	--	--	--
70507	PHOS ORTHO TOT A MG/L AS P	68	0.890	0.010	0.095	0.228	0.110	0.070	0.043	0.020
00665	PHOSPHORUS TOTAL (MG/L AS P)	91	1.200	0.031	0.194	0.390	0.229	0.170	0.110	0.050
71886	PHOSPHORUS TOT P MG/L AS PO4	24	1.200	0.150	0.488	1.200	0.550	0.460	0.210	0.150
00621	NITROGEN NITRATE (MG/KG AS N)	281	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	281	40.000	0.000	1.805	7.940	2.200	0.000	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	69	27.000	6.500	11.191	20.500	12.500	9.700	8.700	7.650
00689	CARBON ORGANIC P (MG/L AS C)	61	14.000	0.200	1.685	5.000	2.000	1.100	0.600	0.210
00690	CARBON INORG + O (MG/L AS C)	281	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	281	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	281	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	281	0.000	--	--	--	--	--	--	--
31625	COLIFORM FECAL 0 COLS./100 ML	19	740.000	--	*103.715	*740.000	*100.000	*42.000	*12.000	*2.732
31673	FECAL STREP,KF M COLS./100 ML	19	3700.000	4.000	425.211	3700.000	410.000	88.000	40.000	4.000
70953	CHL-A PHY CHROMA UG/L	15	39.000	--	*9.072	*39.000	*13.000	*3.399	*1.500	*0.394
70954	CHLOROPHYLL-B, P UG/L	12	--	--	--	--	--	--	--	--
01106	ALUMINUM DISSOLV (UG/L AS AL)	9	--	--	--	--	--	--	--	--
01104	ALUMINUM TOTAL R (UG/L)	21	8900.000	130.000	2251.905	8880.000	2800.000	1800.000	480.000	133.000
01097	ANTIMONY TOTAL (UG/L AS SB)	21	--	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	34	6.000	1.000	3.529	6.000	4.250	3.000	3.000	1.750
01002	ARSENIC TOTAL (UG/L AS AS)	21	7.000	1.000	4.095	7.000	5.000	4.000	3.000	1.100
01005	BARIUM DISSOLVED (UG/L AS BA)	10	200.000	--	*84.460	*200.000	*91.717	*80.000	*52.498	*40.000
01009	BARIUM TOTAL REC (UG/L)	21	160.000	1.000	99.000	159.000	120.000	97.000	80.500	7.800
01010	BERYLLIUM DISSOL (UG/L AS BE)	5	--	--	--	--	--	--	--	--
00998	BERYLLIUM TOT. R (UG/L)	20	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	85	530.000	10.000	94.235	181.000	110.000	80.000	60.000	26.000
00999	BORON TOTAL REC. (UG/L)	21	100.000	--	*100.000	*100.000	*100.000	*100.000	*100.000	*100.000
01025	CADMIUM DISSOLVE (UG/L AS CD)	9	--	--	--	--	--	--	--	--

Supplement 5. Statistical summary of water-quality data for the Red River of the North at Hickson, N. Dak., gaging station 05051522, November 1975 through April 2001--Continued

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	North Dakota data, November 1975 through April 2001--Continued									
01113	CADMIUM TOTAL RE (UG/L)	19	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	10	--	--	--	--	--	--	--	--
01118	CHROMIUM TOTAL R (UG/L)	21	12.000	--	*3.609	*11.900	*4.500	*3.000	*1.477	*0.681
01035	COBALT DISSOLVED (UG/L AS CO)	10	--	--	--	--	--	--	--	--
01040	COPPER DISSOLVED (UG/L AS CU)	10	15.000	--	*4.482	*15.000	*5.000	*3.411	*2.000	*2.000
01119	COPPER TOTAL REC (UG/L)	21	23.000	1.000	6.143	22.600	7.000	5.000	3.500	1.000
00720	CYANIDE TOTAL (MG/L AS CN)	9	--	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	35	300.000	--	*44.281	*260.000	*40.000	*20.000	*10.000	*3.128
01045	IRON TOTAL (UG/L AS FE)	21	11900.000	200.000	3123.810	11760.000	3980.000	2540.000	685.000	209.000
01049	LEAD DISSOLVED (UG/L AS PB)	33	7.000	--	*1.658	*7.000	*2.500	*0.774	*0.302	*0.076
01114	LEAD TOTAL REC. (UG/L)	21	7.000	--	*2.181	*6.800	*3.000	*2.000	*0.843	*0.364
01130	LITHIUM DISSOLVE (UG/L AS LI)	35	50.000	--	*21.020	*42.000	*24.000	*20.000	*14.000	*8.747
01056	MANGANESE DISSOL (UG/L AS MN)	35	90.000	--	*21.346	*66.000	*30.000	*20.000	*10.000	*2.371
01123	MANGANESE TOTAL (UG/L)	21	370.000	10.000	143.333	369.000	215.000	140.000	40.000	11.000
71890	MERCURY DISSOLVE UG/L AS HG	34	11.000	--	*0.399	*3.275	*0.100	*0.016	*0.003	*0.000
01060	MOLYBDENUM DISSO (UG/L AS MO)	35	6.000	--	*1.383	*3.600	*2.000	*1.000	*0.642	*0.306
01065	NICKEL DISSOLVED (UG/L AS NI)	10	11.000	--	*3.570	*11.000	*3.750	*2.351	*2.000	*2.000
01074	NICKEL TOTAL REC (UG/L)	21	12.000	2.000	6.095	11.900	8.000	6.000	3.500	2.000
01145	SELENIUM DISSOLV (UG/L AS SE)	34	1.000	--	*1.000	*1.000	*1.000	*1.000	*1.000	*1.000
01147	SELENIUM TOTAL (UG/L AS SE)	20	9.000	--	*1.114	*8.750	*1.000	*0.223	*0.054	*0.007
01075	SILVER DISSOLVED (UG/L AS AG)	5	--	--	--	--	--	--	--	--
01079	SILVER TOTAL REC (UG/L)	21	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	35	370.000	10.000	217.429	346.000	250.000	210.000	190.000	90.000
01128	THALLIUM TOTAL R (UG/L AS TL)	21	--	--	--	--	--	--	--	--
01085	VANADIUM DISSOLV (UG/L AS V)	8	4.000	--	*1.830	*4.000	*2.750	*1.747	*0.761	*0.462
01090	ZINC DISSOLVED (UG/L AS ZN)	10	--	--	--	--	--	--	--	--
01094	ZINC TOTAL REC. (UG/L)	20	40.000	10.000	18.500	39.500	20.000	20.000	10.000	10.000
39740	2,4,5-T TOTAL(WA UG/L	17	--	--	--	--	--	--	--	--
39730	2,4-D TOTAL (WA UG/L	17	0.210	--	*0.060	*0.210	*0.070	*0.050	*0.017	*0.006
39330	ALDRIN TOTAL (WA UG/L	16	--	--	--	--	--	--	--	--
39786	CARBOPHENOTHION UG/L	16	--	--	--	--	--	--	--	--
39350	CHLORDANE TOT(WA UG/L	16	--	--	--	--	--	--	--	--
39570	DIAZINON TOT (WA UG/L	16	--	--	--	--	--	--	--	--
39380	DIELDRIN TOT (WA UG/L	16	--	--	--	--	--	--	--	--
39388	ENDOSULFAN I TOT UG/L	11	--	--	--	--	--	--	--	--

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		North Dakota data, November 1975 through April 2001--Continued								
39390	ENDRIN UNF REC (UG/L)	16	--	--	--	--	--	--	--	--
39398	ETHION TOTAL (WA UG/L	16	--	--	--	--	--	--	--	--
39420	HEPT EPOX TOT(WA UG/L	16	--	--	--	--	--	--	--	--
39410	HEPTACHLOR T.(WA UG/L	16	--	--	--	--	--	--	--	--
39340	LINDANE TOTAL(WA UG/L	16	--	--	--	--	--	--	--	--
39530	MALATHION TOT(WA UG/L	16	--	--	--	--	--	--	--	--
39480	METHOXYCHLOR T.(UG/L	1	--	--	--	--	--	--	--	--
39600	MET PARTH TOT(WA UG/L	16	--	--	--	--	--	--	--	--
39790	MET TRITH TOT(WA UG/L	16	--	--	--	--	--	--	--	--
39755	MIREX TOTAL UG/L	5	--	--	--	--	--	--	--	--
39360	P,P'-DDD UNFLT R UG/L	15	--	--	--	--	--	--	--	--
39365	P,P'-DDE, TOTAL UG/L	16	--	--	--	--	--	--	--	--
39370	P,P'-DDT UNFILT UG/L	16	--	--	--	--	--	--	--	--
39540	PARATHION TOT(WA UG/L	16	--	--	--	--	--	--	--	--
39516	PCB TOTAL (WA UG/L	16	--	--	--	--	--	--	--	--
39250	PCN TOTAL (WA UG/L	12	--	--	--	--	--	--	--	--
39034	PERTHANE TOTAL UG/L	4	--	--	--	--	--	--	--	--
32730	PHENOLS, TOTAL UG/L	65	16.000	--	*2.711	*6.000	*3.000	*2.000	*1.000	*0.606
39760	SILVEX TOTAL (WA UG/L	17	--	--	--	--	--	--	--	--
39400	TOXAPHENE TOT(WA UG/L	16	--	--	--	--	--	--	--	--
82082	HYDROGEN 2 / 1 R RATIO PER MIL	1	-56.000	--	--	--	--	--	--	--
82085	OXYGEN 18 / 16 R RATIO PER MIL	1	-6.600	--	--	--	--	--	--	--
82068	POTSSSIUM 40 DIS (PCI/L AS K40)	2	7.500	2.300	--	--	--	--	--	--
07000	TRITIUM TOTAL (PCI/L)	1	62.000	--	--	--	--	--	--	--
75985	TRITIUM PREC EST PCI/L	1	6.400	--	--	--	--	--	--	--
70337	SED-SUSP-FALL-D- %	3	69.000	51.000	--	--	--	--	--	--
70338	SED-SUSP-FALL-D- %	10	87.000	60.000	73.200	87.000	80.000	73.500	66.750	60.000
70339	SED-SUSP-FALL-D- %	3	86.000	53.000	--	--	--	--	--	--
70340	SED-SUSP-FALL-D- %	10	98.000	89.000	93.800	98.000	96.500	93.500	91.750	89.000
70341	SED-SUSP-FALL-D- %	3	99.000	96.000	--	--	--	--	--	--
70342	SED-SUSP-FALL-D- %	3	100.000	100.000	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	36	100.000	40.000	90.917	100.000	99.000	98.000	92.000	48.500
70332	SED-SUSP-SIEVE-. %	2	99.000	95.000	--	--	--	--	--	--
70333	SED-SUSP-SIEVE-. %	2	99.000	98.000	--	--	--	--	--	--
70334	SED-SUSP-SIEVE-. %	2	99.000	98.000	--	--	--	--	--	--

Supplement 5. Statistical summary of water-quality data for the Red River of the North at Hickson, N. Dak., gaging station 05051522, November 1975 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, November 1975 through April 2001--Continued							
70336	SED-SUSP-SIEVE-2 %	1	100.000	--	--	--	--	--	--	--
70335	SED-SUSP-SIEVE-1 %	2	100.000	99.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	281	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	93	379.000	3.000	83.247	226.600	122.500	64.000	16.500	4.700
80155	DISCHARGE,SUSP.S T/DAY	281	3310.000	0.000	102.867	656.900	6.900	0.000	0.000	0.000
80157	SED-BED-FALL-D-. %	2	46.000	32.000	--	--	--	--	--	--
80158	SED-BED-FALL-D-. %	2	83.000	63.000	--	--	--	--	--	--
80159	SED-BED-FALL-D-. %	2	85.000	64.000	--	--	--	--	--	--
80160	SED-BED-FALL-D-. %	2	89.000	66.000	--	--	--	--	--	--
80161	SED-BED-FALL-D-. %	2	93.000	76.000	--	--	--	--	--	--
80162	SED-BED-FALL-D-1 %	2	94.000	82.000	--	--	--	--	--	--
80164	SED-BED-SIEVE-.0 %	6	68.000	2.000	19.000	68.000	37.250	6.000	4.250	2.000
80165	SED-BED-SIEVE-.1 %	6	69.000	8.000	24.333	69.000	38.250	15.000	10.250	8.000
80166	SED-BED-SIEVE-.2 %	6	72.000	18.000	35.500	72.000	45.000	29.500	25.500	18.000
80167	SED-BED-SIEVE-.5 %	6	84.000	31.000	57.833	84.000	76.500	60.000	36.250	31.000
80168	SED-BED-SIEVE-1. %	6	99.000	47.000	74.833	99.000	93.750	78.000	53.000	47.000
80169	SED-BED-SIEVE-2. %	8	99.000	65.000	88.500	99.000	98.750	92.500	80.500	65.000
80170	SED-BED-SIEVE-4. %	8	100.000	82.000	94.125	100.000	100.000	98.000	85.750	82.000
80171	SED-BED-SIEVE-8. %	5	100.000	89.000	--	--	--	--	--	--
80172	SED-BED-SIEVE-16 %	4	100.000	93.000	--	--	--	--	--	--
80173	SED-BED-SIEVE-32 %	2	100.000	100.000	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 6. Statistical summary of water-quality data for the Wild Rice River near Abercrombie, N. Dak., gaging station 05053000, June 1966 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, June 1966 through April 2001							
00065	GAGE HEIGHT (FEET)	3	2.510	0.250	--	--	--	--	--	--
00060	DISCHARGE CFS	169	9260.000	0.010	184.933	679.500	87.500	14.000	1.950	0.065
00061	DISCHARGE, INST. CFS	278	7360.000	0.010	521.403	2945.996	483.250	30.000	4.450	0.088
00080	COLOR PLATINUM-COBAL	160	180.000	3.000	34.800	75.000	40.000	30.000	22.000	8.100
00540	RESIDUE FIXED (MG/L)	448	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	448	769.000	0.000	3.633	2.591	1.370	0.700	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	448	5600.000	0.000	122.959	690.850	57.550	2.955	0.000	0.000
70300	RESIDUE DIS 180C MG/L	270	2840.000	83.000	976.863	2024.500	1230.000	914.000	582.500	290.800
70301	DISSOLVED SOLIDS MG/L	448	2660.000	0.000	448.998	1596.500	867.750	0.000	0.000	0.000
00025	AIR PRESSURE (MM OF HG)	4	769.000	735.000	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	2	6.600	4.800	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	448	78.000	0.000	0.299	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	263	8.600	6.800	7.865	8.400	8.100	7.900	7.700	7.300
00403	PH, WH, LABORATO (STANDARD UNIT	41	8.400	6.500	7.888	8.300	8.200	8.000	7.700	6.730
00094	FIELD CONDUCTIVI US/CM @ 25C	1	1060.000	--	--	--	--	--	--	--
90095	SPECIFIC CONDUCT MICROSIEMENS/C	48	2740.000	142.000	1079.104	2105.000	1420.000	984.500	760.000	369.550
00095	SPECIFIC CONDUCT US/CM @ 25C	430	3430.000	125.000	1235.981	2459.000	1620.000	1180.000	762.750	299.100
00020	AIR TEMPERATURE DEGREES C	174	35.500	-18.000	10.588	27.000	21.000	9.500	1.500	-8.625
00010	WATER TEMPERATUR (DEGREES C)	340	29.500	-1.000	10.234	25.475	19.500	9.000	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	448	330.000	0.000	0.737	0.000	0.000	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	448	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	448	570.000	0.000	101.020	355.500	200.000	2.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	448	300.000	0.000	2.750	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	448	1300.000	0.000	307.355	901.000	530.000	280.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	246	290.000	13.000	108.049	221.300	130.000	100.000	70.000	38.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	246	150.000	4.500	57.767	120.000	74.000	56.000	34.000	15.350
00935	POTASSIUM DISSOL (MG/L AS K)	253	47.000	1.900	14.932	22.000	18.000	15.000	12.000	8.870
00931	SODIUM ADSORPTIO (RATIO)	448	5.000	0.000	1.281	4.000	2.000	1.000	0.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	15	300.000	43.000	121.533	300.000	140.000	100.000	60.000	43.000
00930	SODIUM DISSOLVED (MG/L AS NA)	271	420.000	5.300	116.499	274.600	157.000	100.000	60.000	18.600
00932	SODIUM, PERCENT PERCENT	448	57.000	0.000	18.243	40.000	32.000	24.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	448	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	48	750.000	42.000	264.875	425.500	337.250	278.500	180.000	95.400
39086	ALKALINITY,DIS,I (MG/L AS CACO3	1	295.000	--	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	223	809.000	45.000	326.628	652.000	387.000	310.000	210.000	108.000

Supplement 6. Statistical summary of water-quality data for the Wild Rice River near Abercrombie, N. Dak., gaging station 05053000, June 1966 through April 2001--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, June 1966 through April 2001--Continued							
95440	BICARBONATE MG/L AS CACO3	21	520.000	51.000	281.000	519.000	405.000	230.000	195.000	56.900
00453	BICARBONATE,DIS, (MG/L AS HCO3)	1	360.000	--	--	--	--	--	--	--
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	201	980.000	55.000	388.960	720.000	460.000	380.000	260.000	131.000
95445	CARBONATE MG/L AS CO3	21	3.000	0.000	0.143	2.700	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	1	0.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	190	45.000	0.000	0.974	0.000	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	217	180.000	2.300	45.023	120.000	60.500	36.000	23.000	8.140
00950	FLUORIDE DISSOLV (MG/L AS F)	217	1.500	0.100	0.364	0.700	0.400	0.300	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	206	51.000	2.600	20.901	39.650	27.000	20.000	14.000	5.905
00945	SULFATE DISSOLVE (MG/L AS SO4)	233	1200.000	11.000	378.639	773.000	501.000	355.000	209.000	62.700
00608	NITROGEN AMMONIA (MG/L AS N)	3	0.700	0.100	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	2	1.200	1.100	--	--	--	--	--	--
00625	NITROGEN AMM+ORG (MG/L AS N)	2	1.400	1.300	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	448	0.900	0.000	0.003	0.000	0.000	0.000	0.000	0.000
71845	NITROGEN, NH4, T MG/L AS NH4	448	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	448	1.300	0.000	0.006	0.000	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	448	1.900	0.000	0.030	0.160	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	448	8.600	0.000	0.364	1.910	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	448	0.000	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	93	1.900	--	*0.193	*0.824	*0.170	*0.070	*0.030	*0.010
00630	NO2 + NO3 TOTAL (MG/L AS N)	448	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	448	0.200	0.000	0.001	0.000	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	18	0.060	--	*0.009	*0.060	*0.010	*0.003	*0.001	*0.000
00607	NITROGEN ORGANIC (MG/L AS N)	448	1.100	0.000	0.005	0.000	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	448	1.300	0.000	0.006	0.000	0.000	0.000	0.000	0.000
00600	NITROGEN TOTAL (MG/L AS N)	448	1.500	0.000	0.007	0.000	0.000	0.000	0.000	0.000
71887	NITROGEN, TOTAL MG/L AS NO3	448	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	448	1.200	0.000	0.009	0.000	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	448	0.810	0.000	0.004	0.000	0.000	0.000	0.000	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	104	2.000	0.010	0.404	1.525	0.447	0.275	0.183	0.100
00672	PHOSPHORUS HYDRO (MG/L AS P)	448	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	448	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	448	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	448	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	2	0.140	0.120	--	--	--	--	--	--

Supplement 6. Statistical summary of water-quality data for the Wild Rice River near Abercrombie, N. Dak., gaging station 05053000, June 1966 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, June 1966 through April 2001--Continued							
00665	PHOSPHORUS TOTAL (MG/L AS P)	2	0.210	0.180	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	448	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	448	117.000	0.000	6.412	20.000	7.775	3.250	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	2	15.000	15.000	--	--	--	--	--	--
00689	CARBON ORGANIC P (MG/L AS C)	1	2.700	--	--	--	--	--	--	--
00690	CARBON INORG + O (MG/L AS C)	448	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	448	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	448	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	448	0.000	--	--	--	--	--	--	--
01106	ALUMINUM DISSOLV (UG/L AS AL)	15	400.000	--	*108.141	*400.000	*300.000	*10.000	*10.000	*1.000
01105	ALUMINUM TOTAL UG/L AS AL	1	200.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	53	18.000	1.000	6.849	15.300	10.000	6.000	3.500	1.000
01005	BARIUM DISSOLVED (UG/L AS BA)	17	--	--	--	--	--	--	--	--
01010	BERYLLIUM DISSOL (UG/L AS BE)	10	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	204	840.000	30.000	300.750	597.500	400.000	290.000	190.000	80.000
01025	CADMIUM DISSOLVE (UG/L AS CD)	17	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	18	--	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	17	--	--	--	--	--	--	--	--
01040	COPPER DISSOLVED (UG/L AS CU)	17	35.000	--	*7.656	*35.000	*8.000	*6.000	*3.000	*0.992
00720	CYANIDE TOTAL (MG/L AS CN)	14	--	--	--	--	--	--	--	--
71885	IRON UG/L AS FE	3	70.000	30.000	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	76	1100.000	--	*83.587	*351.500	*80.000	*40.000	*20.000	*4.959
01045	IRON TOTAL (UG/L AS FE)	4	--	--	--	--	--	--	--	--
01049	LEAD DISSOLVED (UG/L AS PB)	53	10.000	--	*1.033	*6.600	*1.000	*0.273	*0.087	*0.020
01130	LITHIUM DISSOLVE (UG/L AS LI)	53	310.000	10.000	67.377	127.100	90.000	50.000	40.000	10.000
01056	MANGANESE DISSOL (UG/L AS MN)	66	2290.000	--	*241.733	*1091.500	*242.500	*110.000	*50.000	*9.663
01055	MANGANESE TOTAL (UG/L AS MN)	17	8000.000	--	*1179.485	*8000.000	*335.000	*40.000	*5.746	*0.154
71890	MERCURY DISSOLVE UG/L AS HG	50	9.000	--	*0.370	*1.520	*0.250	*0.061	*0.018	*0.003
01060	MOLYBDENUM DISSO (UG/L AS MO)	51	9.000	--	*2.839	*7.400	*4.000	*2.000	*1.000	*0.408
01065	NICKEL DISSOLVED (UG/L AS NI)	17	15.000	--	*5.192	*15.000	*7.500	*4.000	*2.500	*0.970
01145	SELENIUM DISSOLV (UG/L AS SE)	53	13.000	--	*1.470	*10.300	*1.000	*0.345	*0.097	*0.015
01075	SILVER DISSOLVED (UG/L AS AG)	7	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	53	790.000	100.000	424.792	742.000	585.000	420.000	255.000	117.000
01085	VANADIUM DISSOLV (UG/L AS V)	16	5.000	--	*2.039	*5.000	*3.000	*2.000	*1.000	*0.409
01090	ZINC DISSOLVED (UG/L AS ZN)	17	30.000	--	*17.769	*30.000	*21.500	*20.000	*11.247	*8.000

Supplement 6. Statistical summary of water-quality data for the Wild Rice River near Abercrombie, N. Dak., gaging station 05053000, June 1966 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, June 1966 through April 2001--Continued							
07060	IRON 59 DISSOLVE (PCI/L)	2	8.000	2.000	--	--	--	--	--	--
82068	POTSSSIUM 40 DIS (PCI/L AS K40)	5	12.000	6.100	--	--	--	--	--	--
70338	SED-SUSP-FALL-D- %	7	89.000	59.000	74.143	89.000	80.000	76.000	65.000	59.000
70340	SED-SUSP-FALL-D- %	7	100.000	71.000	92.429	100.000	99.000	96.000	89.000	71.000
70342	SED-SUSP-FALL-D- %	3	100.000	100.000	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	5	100.000	77.000	--	--	--	--	--	--
70332	SED-SUSP-SIEVE-. %	2	94.000	78.000	--	--	--	--	--	--
70333	SED-SUSP-SIEVE-. %	2	94.000	80.000	--	--	--	--	--	--
70334	SED-SUSP-SIEVE-. %	2	96.000	88.000	--	--	--	--	--	--
70336	SED-SUSP-SIEVE-2 %	2	100.000	100.000	--	--	--	--	--	--
70335	SED-SUSP-SIEVE-1 %	2	99.000	98.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	448	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	61	540.000	4.000	60.721	149.400	86.500	42.000	17.500	8.100
80155	DISCHARGE,SUSP.S T/DAY	448	1650.000	0.000	12.779	2.730	0.000	0.000	0.000	0.000
80164	SED-BED-SIEVE-.0 %	10	80.000	2.000	25.200	80.000	51.750	10.500	4.000	2.000
80165	SED-BED-SIEVE-.1 %	10	81.000	6.000	30.100	81.000	53.000	17.000	8.500	6.000
80166	SED-BED-SIEVE-.2 %	10	84.000	13.000	37.400	84.000	61.000	25.000	15.000	13.000
80167	SED-BED-SIEVE-.5 %	10	87.000	15.000	47.400	87.000	78.000	38.500	27.750	15.000
80168	SED-BED-SIEVE-1. %	10	90.000	21.000	58.400	90.000	84.000	55.500	45.750	21.000
80169	SED-BED-SIEVE-2. %	10	91.000	33.000	68.500	91.000	87.000	70.500	58.250	33.000
80170	SED-BED-SIEVE-4. %	10	97.000	49.000	77.100	97.000	91.500	78.000	67.500	49.000
80171	SED-BED-SIEVE-8. %	10	100.000	70.000	86.100	100.000	94.000	86.000	76.750	70.000
80172	SED-BED-SIEVE-16 %	8	100.000	90.000	95.750	100.000	99.750	96.000	91.250	90.000
80173	SED-BED-SIEVE-32 %	6	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 7. Statistical summary of water-quality data for the Red River of the North at Fargo, N. Dak., gaging station 05054000, May 1949 through July 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, May 1949 through July 2001							
00060	DISCHARGE CFS	500	24300.000	14.000	1113.714	4619.000	1072.500	474.500	204.500	75.100
00061	DISCHARGE, INST. CFS	294	25200.000	9.100	2384.531	11025.000	2792.500	698.500	256.000	44.750
00080	COLOR PLATINUM-COBAL	113	100.000	1.000	13.681	31.300	17.500	10.000	6.500	3.000
00540	RESIDUE FIXED (MG/L)	797	0.000	--	--	--	--	--	--	--
00515	RESIDUE DISSOLVE (MG/L)	12	460.000	260.000	350.833	460.000	410.000	350.000	292.500	260.000
00530	RESIDUE TOTAL (MG/L)	12	210.000	5.000	67.833	210.000	90.250	66.500	9.250	5.000
70303	RESIDUE DIS TON/ T/AC-FT	797	0.880	0.000	0.271	0.590	0.450	0.360	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	797	15100.000	0.000	617.829	3288.998	556.500	132.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	484	650.000	134.000	329.066	460.750	375.750	317.000	278.250	219.000
70301	DISSOLVED SOLIDS MG/L	797	609.000	0.000	90.327	386.600	240.500	0.000	0.000	0.000
61028	TURBIDITY, FIELD (NTU)	1	270.000	--	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	3	782.000	726.000	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	6	13.300	5.800	8.883	13.300	13.150	7.250	6.400	5.800
00301	OXYGEN DIS. PERC % OF SATURATIO	797	89.000	0.000	0.307	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	524	8.800	0.000	7.744	8.300	8.000	7.700	7.600	7.200
00403	PH, WH, LABORATO (STANDARD UNIT	25	8.800	6.700	7.784	8.650	8.200	7.900	7.350	6.730
00094	FIELD CONDUCTIVI US/CM @ 25C	3	443.000	236.000	--	--	--	--	--	--
90095	SPECIFIC CONDUCT MICROSIEMENS/C	32	804.000	236.000	553.219	795.550	673.750	539.500	467.500	298.400
00095	SPECIFIC CONDUCT US/CM @ 25C	771	1400.000	180.000	542.717	754.400	610.000	526.000	465.000	337.600
00020	AIR TEMPERATURE DEGREES C	183	33.500	-27.000	10.352	28.900	22.000	11.000	1.500	-13.600
00010	WATER TEMPERATUR (DEGREES C)	417	32.000	-0.500	10.339	25.500	20.000	8.500	0.850	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	797	17.000	0.000	0.021	0.000	0.000	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	797	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	797	200.000	0.000	27.310	100.000	43.000	15.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	797	65.000	0.000	0.152	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	797	420.000	0.000	156.223	310.000	260.000	220.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	260	82.000	21.000	47.315	65.950	53.000	46.000	41.000	32.050
00925	MAGNESIUM DISSOL (MG/L AS MG)	260	52.000	8.000	31.892	43.950	36.750	32.000	29.000	15.050
00935	POTASSIUM DISSOL (MG/L AS K)	227	18.000	1.700	5.657	8.800	6.300	5.300	4.600	3.700
00931	SODIUM ADSORPTIO (RATIO)	797	0.900	0.000	0.263	0.600	0.400	0.300	0.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	3	22.000	2.500	--	--	--	--	--	--
00930	SODIUM DISSOLVED (MG/L AS NA)	497	43.000	5.200	15.390	26.000	19.000	14.000	11.000	8.290
00932	SODIUM, PERCENT PERCENT	797	23.000	0.000	6.619	15.000	12.000	9.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	797	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	34	245.000	70.000	183.206	242.000	217.750	200.000	154.500	87.250

Supplement 7. Statistical summary of water-quality data for the Red River of the North at Fargo, N. Dak., gaging station 05054000, May 1949 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, May 1949 through July 2001--Continued									
00418	ALKALINITY,DIS,F (MG/L AS CACO3	1	243.000	--	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	1	248.000	--	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	459	364.000	62.000	203.118	272.000	228.000	206.000	182.000	120.000
95440	BICARBONATE MG/L AS CACO3	23	270.000	85.000	218.043	270.000	260.000	240.000	190.000	94.000
00453	BICARBONATE,DIS, (MG/L AS HCO3)	1	303.000	--	--	--	--	--	--	--
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	466	380.000	76.000	246.573	330.000	280.000	250.000	220.000	143.500
95445	CARBONATE MG/L AS CO3	23	22.000	0.000	0.957	17.600	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	1	0.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	441	17.000	0.000	0.295	0.000	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	228	39.000	0.010	7.144	17.550	8.000	6.200	4.500	1.725
00950	FLUORIDE DISSOLV (MG/L AS F)	223	0.800	0.100	0.213	0.300	0.300	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	219	24.000	1.500	11.777	18.000	15.000	12.000	9.000	3.800
00945	SULFATE DISSOLVE (MG/L AS SO4)	432	267.000	13.000	74.324	163.050	100.750	60.500	39.000	27.000
00608	NITROGEN AMMONIA (MG/L AS N)	1	0.140	--	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	1	1.000	--	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	797	0.180	0.000	0.000	0.000	0.000	0.000	0.000	0.000
71845	NITROGEN, NH4, T MG/L AS NH4	797	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	797	1.500	0.000	0.002	0.000	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	797	12.000	0.000	0.127	0.500	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	797	53.000	0.000	0.684	4.000	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	797	0.000	--	--	--	--	--	--	--
71850	N, NITRATE TOTAL MG/L AS NO3	69	14.000	0.000	1.341	6.950	1.400	0.400	0.200	0.000
00631	NO2 + NO3 DISSOL (MG/L AS N)	18	2.100	--	*0.298	*2.100	*0.385	*0.160	*0.050	*0.020
00630	NO2 + NO3 TOTAL (MG/L AS N)	797	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	797	0.130	0.000	0.001	0.000	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	17	0.040	--	*0.008	*0.040	*0.010	*0.004	*0.002	*0.001
00607	NITROGEN ORGANIC (MG/L AS N)	797	0.860	0.000	0.001	0.000	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	797	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	797	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	797	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	797	31.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	797	0.620	0.000	0.003	0.000	0.000	0.000	0.000	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	36	2.400	0.010	0.174	0.649	0.148	0.095	0.062	0.010
00672	PHOSPHORUS HYDRO (MG/L AS P)	797	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	797	0.000	--	--	--	--	--	--	--

Supplement 7. Statistical summary of water-quality data for the Red River of the North at Fargo, N. Dak., gaging station 05054000, May 1949 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, May 1949 through July 2001--Continued							
00673	PHOSPHORUS ORG. (MG/L AS P)	797	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	797	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	1	0.060	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	797	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	797	142.000	0.000	5.604	18.000	8.500	3.800	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	1	8.400	--	--	--	--	--	--	--
00689	CARBON ORGANIC P (MG/L AS C)	1	0.600	--	--	--	--	--	--	--
00690	CARBON INORG + O (MG/L AS C)	797	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	797	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	797	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	797	0.000	--	--	--	--	--	--	--
31625	COLIFORM FECAL 0 COLS./100 ML	1	77.000	--	--	--	--	--	--	--
31673	FECAL STREP,KF M COLS./100 ML	1	3200.000	--	--	--	--	--	--	--
01106	ALUMINUM DISSOLV (UG/L AS AL)	7	300.000	0.000	125.714	300.000	287.000	100.000	0.000	0.000
01105	ALUMINUM TOTAL UG/L AS AL	1	200.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	40	13.000	--	*3.567	*8.000	*5.000	*3.000	*2.000	*0.880
01005	BARIUM DISSOLVED (UG/L AS BA)	7	76.000	0.000	10.857	76.000	0.000	0.000	0.000	0.000
01010	BERYLLIUM DISSOL (UG/L AS BE)	6	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	218	590.000	20.000	92.890	180.000	103.000	80.000	61.500	30.000
01025	CADMIUM DISSOLVE (UG/L AS CD)	8	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	7	--	--	--	--	--	--	--	--
01032	CHROMIUM HEXAVAL (UG/L AS CR)	1	0.000	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	7	--	--	--	--	--	--	--	--
01040	COPPER DISSOLVED (UG/L AS CU)	8	27.000	--	*11.308	*27.000	*21.000	*7.414	*4.336	*3.292
71885	IRON UG/L AS FE	97	250.000	0.000	58.969	141.000	80.000	50.000	25.000	0.000
01046	IRON DISSOLVED (UG/L AS FE)	69	1000.000	--	*66.430	*195.000	*80.000	*40.000	*20.000	*5.040
01045	IRON TOTAL (UG/L AS FE)	98	200.000	--	*25.584	*111.000	*22.500	*10.000	*10.000	*1.972
01049	LEAD DISSOLVED (UG/L AS PB)	40	6.000	--	*0.947	*5.850	*1.000	*0.400	*0.154	*0.037
01130	LITHIUM DISSOLVE (UG/L AS LI)	40	100.000	--	*26.137	*40.000	*30.000	*20.000	*17.000	*8.135
01056	MANGANESE DISSOL (UG/L AS MN)	56	150.000	--	*27.389	*103.000	*40.000	*12.000	*6.874	*2.128
01055	MANGANESE TOTAL (UG/L AS MN)	22	140.000	--	*34.696	*134.000	*60.000	*11.026	*5.783	*1.432
71890	MERCURY DISSOLVE UG/L AS HG	35	0.700	--	*0.141	*0.620	*0.100	*0.064	*0.026	*0.007
71900	MERCURY, TOT.REC UG/L AS HG	1	0.800	--	--	--	--	--	--	--
01060	MOLYBDENUM DISSO (UG/L AS MO)	37	6.000	--	*1.484	*3.300	*2.000	*1.000	*1.000	*0.472
01065	NICKEL DISSOLVED (UG/L AS NI)	8	--	--	--	--	--	--	--	--

Supplement 7. Statistical summary of water-quality data for the Red River of the North at Fargo, N. Dak., gaging station 05054000, May 1949 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, May 1949 through July 2001--Continued							
01145	SELENIUM DISSOLV (UG/L AS SE)	39	14.000	--	*1.141	*9.200	*1.000	*0.195	*0.055	*0.008
01075	SILVER DISSOLVED (UG/L AS AG)	6	4.000	0.000	0.833	4.000	1.750	0.000	0.000	0.000
01080	STRONTIUM DISSOL (UG/L AS SR)	40	650.000	69.000	238.350	379.500	297.500	225.000	170.000	81.050
01085	VANADIUM DISSOLV (UG/L AS V)	8	4.000	--	*1.967	*4.000	*2.750	*1.869	*1.000	*1.000
01090	ZINC DISSOLVED (UG/L AS ZN)	8	30.000	0.000	14.125	30.000	24.750	10.000	9.000	0.000
80030	GROSS ALPHA DIS. UG/L AS U-NAT	12	8.600	--	*5.453	*8.600	*6.800	*4.635	*4.053	*4.053
80050	GROS-B,D,SR-90-P PCI/L SR/Y-90	12	14.000	10.000	11.500	14.000	12.000	11.500	11.000	10.000
01515	GROSS ALPHA DISS (PCI/L AS U-NA	12	2.900	--	*1.845	*2.900	*2.275	*1.545	*1.390	*1.390
80040	GROSS ALPHA SUS. UG/L AS U-NAT	12	6.100	--	*2.733	*6.100	*3.500	*2.750	*1.314	*0.799
01516	G.ALPHA SUS.U-N PCI/L AS U-NAT	12	2.000	--	*0.900	*2.000	*1.150	*0.900	*0.430	*0.257
03515	GROSS BETA DISSO PCI/L AS CS-13	12	17.000	12.000	14.167	17.000	15.000	14.000	14.000	12.000
80060	GROS-B,S,SR-90 P PCI/L SR/Y-90	12	9.700	0.600	2.958	9.700	3.800	2.800	0.850	0.600
03516	GROSS BETA SUSPE PCI/L AS CS-13	12	11.000	0.700	3.425	11.000	4.425	3.250	0.950	0.700
07060	IRON 59 DISSOLVE (PCI/L)	2	2.000	1.000	--	--	--	--	--	--
09510	RADIUM 226 DISS. (PCI/L)	2	--	--	--	--	--	--	--	--
09511	RADIUM 226 DISS. (PCI/L)	10	0.120	0.050	0.088	0.120	0.102	0.090	0.070	0.050
22703	URANIUM,NATURAL, UG/L AS U	11	4.000	--	*1.859	*4.000	*3.000	*1.000	*1.000	*0.445
70331	SED-SUSP-SIEVE-. %	1	98.000	--	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	797	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	1	141.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	797	4760.000	0.000	5.972	0.000	0.000	0.000	0.000	0.000

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 8. Statistical summary of water-quality data for the Red River of the North below Fargo, N. Dak., gaging station 05054020, July 1969 through July 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, July 1969 through September 1986									
00065	GAGE HEIGHT (FEET)	7	15.000	14.090	14.334	15.000	14.450	14.200	14.140	14.090
00060	DISCHARGE CFS	64	4150.000	23.000	556.500	2102.500	633.250	347.000	142.500	41.250
00061	DISCHARGE, INST. CFS	119	17300.000	2.000	838.369	3390.000	756.000	310.000	186.000	12.000
00310	BOD 5-DAY AT 20 (MG/L)	45	34.000	2.700	7.638	24.100	8.500	6.800	4.150	2.890
00080	COLOR PLATINUM-COBAL	77	350.000	1.000	30.442	102.000	30.000	20.000	10.000	4.600
00540	RESIDUE FIXED (MG/L)	185	0.000	--	--	--	--	--	--	--
00515	RESIDUE DISSOLVE (MG/L)	19	810.000	260.000	353.684	810.000	410.000	300.000	270.000	260.000
00530	RESIDUE TOTAL (MG/L)	19	130.000	6.000	45.684	130.000	70.000	38.000	12.000	6.000
70303	RESIDUE DIS TON/ T/AC-FT	185	1.050	0.000	0.492	0.745	0.560	0.480	0.415	0.340
70302	DISSOLVED SOLIDS TONS/DAY	185	8550.000	0.000	610.276	2307.000	588.500	299.000	141.500	12.550
70300	RESIDUE DIS 180C MG/L	180	769.000	183.000	371.778	556.100	414.500	356.000	307.250	255.050
70301	DISSOLVED SOLIDS MG/L	185	741.000	0.000	258.908	519.300	367.500	300.000	0.000	0.000
00070	TURBIDITY (JCU)	67	120.000	1.000	24.000	86.000	39.000	15.000	7.000	3.000
00025	AIR PRESSURE (MM OF HG)	19	780.000	725.000	741.895	780.000	745.000	740.000	732.000	725.000
00300	OXYGEN DISSOLVED (MG/L)	68	16.100	4.000	9.451	13.910	11.675	9.350	7.025	5.015
00301	OXYGEN DIS. PERC % OF SATURATIO	185	114.000	0.000	29.816	96.000	77.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	170	8.900	7.200	8.014	8.500	8.200	8.000	7.800	7.455
00403	PH, WH, LABORATO (STANDARD UNIT	45	8.900	7.400	8.053	8.600	8.250	8.000	7.900	7.460
90095	SPECIFIC CONDUCT MICROSIEMENS/C	45	828.000	399.000	576.600	787.700	647.500	564.000	497.500	415.900
00095	SPECIFIC CONDUCT US/CM @ 25C	181	1140.000	290.000	588.652	931.900	638.500	561.000	500.000	405.300
00020	AIR TEMPERATURE DEGREES C	55	32.000	-31.500	7.836	31.600	20.000	11.000	-1.000	-23.500
00010	WATER TEMPERATUR (DEGREES C)	181	28.000	0.000	10.019	24.950	19.500	9.000	0.250	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	185	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	185	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	185	260.000	0.000	28.400	98.100	43.500	16.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	185	57.000	0.000	3.551	34.400	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	185	510.000	0.000	255.568	340.000	290.000	260.000	230.000	183.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	169	98.000	30.000	49.574	68.500	54.000	48.000	43.000	37.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	169	70.000	11.000	33.396	43.000	36.000	33.000	30.000	24.500
00935	POTASSIUM DISSOL (MG/L AS K)	139	20.000	3.700	6.922	12.000	7.800	6.200	5.300	4.200
00931	SODIUM ADSORPTIO (RATIO)	185	3.000	0.000	0.515	1.000	0.600	0.500	0.300	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	16	45.000	14.000	23.438	45.000	26.500	22.000	18.000	14.000
00930	SODIUM DISSOLVED (MG/L AS NA)	149	110.000	6.800	24.275	63.500	24.500	20.000	15.000	11.000
00932	SODIUM, PERCENT PERCENT	185	45.000	0.000	11.735	28.400	15.000	12.000	8.500	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	185	0.000	--	--	--	--	--	--	--

Supplement 8. Statistical summary of water-quality data for the Red River of the North below Fargo, N. Dak., gaging station 05054020, July 1969 through July 2001--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, July 1969 through September 1986--Continued								
90410	ANC, TIT. 4.5, L MG/L AS CACO3	46	270.000	105.000	208.674	267.550	240.500	208.500	190.750	119.250
00410	ANC, FET, FIELD (MG/L AS CACO3	111	390.000	62.000	220.036	291.200	240.000	211.000	200.000	159.600
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	88	470.000	140.000	267.273	340.000	287.500	260.000	250.000	190.000
00445	ANC CARB FET FIE (MG/L AS CO3)	82	15.000	0.000	0.305	0.850	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	168	96.000	4.400	14.858	50.300	14.750	11.000	8.625	6.200
00950	FLUORIDE DISSOLV (MG/L AS F)	148	0.900	0.100	0.266	0.600	0.300	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	133	46.000	0.100	12.437	20.000	15.500	13.000	8.800	3.210
00945	SULFATE DISSOLVE (MG/L AS SO4)	180	330.000	19.000	83.133	190.000	100.000	69.000	49.000	24.050
00608	NITROGEN AMMONIA (MG/L AS N)	40	11.800	0.010	1.300	4.722	1.475	0.925	0.415	0.040
00623	NITRO AMN & ORG (MG/L AS N)	4	--	--	--	--	--	--	--	--
00625	NITROGEN AMM+ORG (MG/L AS N)	51	4.200	0.500	1.755	3.860	2.200	1.500	1.200	0.892
71846	NITR. NH4 AS NH4 MG/L AS NH4	185	15.000	0.000	0.361	2.119	0.000	0.000	0.000	0.000
00610	NITROGEN AMMONIA (MG/L AS N)	12	1.300	0.100	0.560	1.300	0.905	0.495	0.208	0.100
71845	NITROGEN, NH4, T MG/L AS NH4	185	1.670	0.000	0.049	0.328	0.000	0.000	0.000	0.000
00602	NITROGEN DISSOLV (MG/L AS N)	185	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	185	3.500	0.000	0.113	0.676	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	185	16.000	0.000	0.504	3.010	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	185	0.000	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	101	2.700	--	*0.402	*1.490	*0.500	*0.280	*0.130	*0.040
00630	NO2 + NO3 TOTAL (MG/L AS N)	182	4.600	0.000	0.208	1.385	0.100	0.000	0.000	0.000
71856	NITR. NO2 AS NO2 MG/L AS NO2	185	0.160	0.000	0.008	0.077	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	22	0.040	0.000	0.008	0.039	0.012	0.000	0.000	0.000
00607	NITROGEN ORGANIC (MG/L AS N)	185	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	185	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	185	6.900	0.000	0.680	4.140	1.400	0.000	0.000	0.000
71887	NITROGEN, TOTAL MG/L AS NO3	185	31.000	0.000	3.016	18.700	6.200	0.000	0.000	0.000
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	185	2.400	0.000	0.061	0.238	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	185	0.000	--	--	--	--	--	--	--
00666	PHOSPHORUS DISS. (MG/L AS P)	93	2.200	0.010	0.258	1.100	0.255	0.160	0.090	0.047
00672	PHOSPHORUS HYDRO (MG/L AS P)	185	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	185	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	185	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	185	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	9	0.780	0.110	0.411	0.780	0.595	0.370	0.260	0.110
00665	PHOSPHORUS TOTAL (MG/L AS P)	102	11.000	0.110	0.880	3.000	0.990	0.480	0.340	0.221

Supplement 8. Statistical summary of water-quality data for the Red River of the North below Fargo, N. Dak., gaging station 05054020, July 1969 through July 2001--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, July 1969 through September 1986--Continued									
00626	NITROGEN AMMONIA (MG/KG AS N)	1	1100.000	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	185	0.000	--	--	--	--	--	--	--
00633	NO2 + NO3 BOT. M (MG/KG AS N)	1	1.000	--	--	--	--	--	--	--
00668	PHOSPHORUS BOT. (MG/KG AS P)	1	130.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	185	30.000	0.000	4.055	12.000	5.100	3.100	1.500	0.000
00681	CARBON ORGANIC D (MG/L AS C)	3	10.000	8.900	--	--	--	--	--	--
00689	CARBON ORGANIC P (MG/L AS C)	2	0.700	0.600	--	--	--	--	--	--
00680	CARBON ORGANIC T (MG/L AS C)	19	22.000	7.000	12.989	22.000	16.000	12.000	10.000	7.000
00690	CARBON INORG + O (MG/L AS C)	185	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	185	12.000	0.000	0.065	0.000	0.000	0.000	0.000	0.000
00572	BIOMASS, PERIPHY (G/SQ M)	9	48.200	0.079	10.658	48.200	15.500	3.540	2.300	0.079
00573	BIOMASS PERIPHYT (G/SQ M)	8	61.800	0.157	12.130	61.800	10.500	5.140	2.750	0.157
70950	BIO CHL RATIO PE UNITS	185	14000.000	0.000	152.054	0.000	0.000	0.000	0.000	0.000
70949	BIO CHL RATIO PL UNITS	185	0.000	--	--	--	--	--	--	--
60050	PHYTO TYPE-I CELLS/ML	37	53000.000	200.000	11377.297	51199.996	16500.000	7000.000	1150.000	245.000
31501	TOT COLI,MENDO M COLS./100 ML	5	55000.000	100.000	--	--	--	--	--	--
31625	COLIFORM FECAL 0 COLS./100 ML	15	75000.000	77.000	5985.800	75000.000	2800.000	450.000	290.000	77.000
31616	FECAL COLI,MFC M COLS./100 ML	30	24000.000	--	*2166.881	*17500.000	*2250.000	*180.000	*8.500	*0.403
31673	FECAL STREP,KF M COLS./100 ML	15	13000.000	58.000	1960.533	13000.000	2200.000	660.000	250.000	58.000
31679	FECAL STRPT MF M COLS./100 ML	32	10000.000	1.000	1211.469	8050.001	1500.000	225.000	74.250	2.950
70957	CHL-A PR CH-FL M MG/M2	3	0.400	0.000	--	--	--	--	--	--
70955	CHLORO-A PERI CS MG/M2	1	5.040	--	--	--	--	--	--	--
32228	CHLORO-A-PERI-SU MG/SQ M	7	97.500	0.000	15.314	97.500	7.600	0.500	0.100	0.000
32230	CHLORO-A-PHY-SUC UG/L	1	1.000	--	--	--	--	--	--	--
70958	CHL-B PR CH-FL M MG/M2	1	0.000	--	--	--	--	--	--	--
70956	CHL-B PR CH-FL M MG/M2	1	3.850	--	--	--	--	--	--	--
32226	CHLORO-B-PERI-SU MG/SQ M	7	3.000	0.000	0.722	3.000	1.400	0.200	0.000	0.000
32231	CHLORO-B-PHY-S UG/L	1	1.000	--	--	--	--	--	--	--
01106	ALUMINUM DISSOLV (UG/L AS AL)	17	211.000	--	*30.625	*211.000	*26.942	*20.000	*10.000	*2.461
01000	ARSENIC DISSOLVE (UG/L AS AS)	47	10.000	0.000	3.915	8.600	5.000	4.000	2.000	0.000
01001	ARSENIC SUSPENDE (UG/L AS AS)	16	96.000	--	*6.980	*96.000	*1.750	*1.000	*0.132	*0.021
01002	ARSENIC TOTAL (UG/L AS AS)	19	100.000	2.000	10.211	100.000	8.000	4.000	4.000	2.000
01005	BARIUM DISSOLVED (UG/L AS BA)	20	230.000	--	*97.931	*228.500	*107.500	*83.363	*62.734	*30.486
01006	BARIUM SUSPENDED (UG/L AS BA)	1	0.000	--	--	--	--	--	--	--
01007	BARIUM TOTAL (UG/L AS BA)	1	--	--	--	--	--	--	--	--

Supplement 8. Statistical summary of water-quality data for the Red River of the North below Fargo, N. Dak., gaging station 05054020, July 1969 through July 2001--Continued

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			North Dakota data, July 1969 through September 1986--Continued							
01010	BERYLLIUM DISSOL (UG/L AS BE)	10	0.000	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	90	421.000	40.000	102.500	199.900	110.000	85.000	70.000	60.000
01025	CADMIUM DISSOLVE (UG/L AS CD)	48	26.000	--	*1.163	*2.550	*1.000	*0.364	*0.156	*0.045
01026	CADMIUM SUSPENDE (UG/L AS CD)	17	19.000	--	*6.684	*19.000	*9.000	*5.354	*4.040	*2.588
01027	CADMIUM TOTAL (UG/L AS CD)	18	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	48	--	--	--	--	--	--	--	--
01032	CHROMIUM HEXAVAL (UG/L AS CR)	1	0.000	--	--	--	--	--	--	--
01031	CHROMIUM SUSPEND (UG/L AS CR)	15	20.000	--	*7.100	*20.000	*10.000	*5.727	*3.636	*2.025
01034	CHROMIUM TOTAL (UG/L AS CR)	18	--	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	40	40.000	--	*1.936	*20.150	*0.482	*0.078	*0.016	*0.001
01036	COBALT SUSPENDED (UG/L AS CO)	18	--	--	--	--	--	--	--	--
01037	COBALT TOTAL (UG/L AS CO)	19	--	--	--	--	--	--	--	--
01040	COPPER DISSOLVED (UG/L AS CU)	47	140.000	0.000	12.064	83.600	9.000	5.000	4.000	0.000
01041	COPPER SUSPENDED (UG/L AS CU)	18	35.000	--	*6.875	*35.000	*11.500	*3.000	*1.580	*0.605
01042	COPPER TOTAL (UG/L AS CU)	19	120.000	--	*18.396	*120.000	*20.000	*11.000	*6.152	*2.361
00720	CYANIDE TOTAL (MG/L AS CN)	24	0.060	--	*0.008	*0.056	*0.006	*0.001	*0.000	*0.000
01046	IRON DISSOLVED (UG/L AS FE)	39	70.000	--	*27.891	*60.000	*50.000	*20.000	*10.757	*6.528
01045	IRON TOTAL (UG/L AS FE)	18	2900.000	230.000	1078.333	2900.000	1450.000	860.000	467.500	230.000
01049	LEAD DISSOLVED (UG/L AS PB)	47	15.000	--	*2.788	*10.800	*4.000	*1.297	*0.613	*0.213
01050	LEAD SUSPENDED (UG/L AS PB)	17	100.000	--	*43.795	*100.000	*48.184	*32.585	*27.288	*17.000
01051	LEAD TOTAL (UG/L AS PB)	18	--	--	--	--	--	--	--	--
01130	LITHIUM DISSOLVE (UG/L AS LI)	16	49.000	17.000	26.438	49.000	31.750	21.500	20.000	17.000
01056	MANGANESE DISSOL (UG/L AS MN)	47	190.000	--	*37.434	*166.000	*50.000	*30.000	*6.000	*2.000
01054	MANGANESE SUSPEN (UG/L AS MN)	18	260.000	0.000	91.111	260.000	150.000	65.000	40.000	0.000
01055	MANGANESE TOTAL (UG/L AS MN)	20	260.000	20.000	144.900	259.000	212.500	145.000	90.000	21.500
71890	MERCURY DISSOLVE UG/L AS HG	42	8.000	--	*0.295	*1.620	*0.100	*0.012	*0.002	*0.000
71895	MERCURY SUSPENDE UG/L AS HG	17	3.600	0.000	0.265	3.600	0.150	0.000	0.000	0.000
71900	MERCURY, TOT.REC UG/L AS HG	20	--	--	--	--	--	--	--	--
01060	MOLYBDENUM DISSO (UG/L AS MO)	27	18.000	--	*4.159	*16.000	*5.599	*2.095	*1.263	*0.464
01065	NICKEL DISSOLVED (UG/L AS NI)	27	43.000	0.000	5.852	30.200	7.000	4.000	2.000	0.000
01145	SELENIUM DISSOLV (UG/L AS SE)	44	135.000	--	*4.124	*7.500	*1.000	*0.133	*0.019	*0.001
01146	SELENIUM SUSPEND (UG/L AS SE)	16	3.000	0.000	0.250	3.000	0.000	0.000	0.000	0.000
01147	SELENIUM TOTAL (UG/L AS SE)	18	6.000	--	*1.643	*6.000	*2.250	*0.704	*0.266	*0.067
01075	SILVER DISSOLVED (UG/L AS AG)	13	2.000	--	*0.876	*2.000	*1.000	*0.698	*0.450	*0.267
01076	SILVER SUSPENDED (UG/L AS AG)	1	--	--	--	--	--	--	--	--

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			North Dakota data, July 1969 through September 1986--Continued							
01077	SILVER TOTAL (UG/L AS AG)	1	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	20	356.000	110.000	192.600	353.000	237.500	160.000	160.000	111.500
01085	VANADIUM DISSOLV (UG/L AS V)	18	7.000	--	*2.858	*7.000	*5.000	*2.500	*0.956	*0.384
01090	ZINC DISSOLVED (UG/L AS ZN)	48	194.000	--	*22.809	*76.500	*25.000	*13.339	*8.000	*3.110
01091	ZINC SUSPENDED (UG/L AS ZN)	18	330.000	0.000	34.444	330.000	30.000	20.000	0.000	0.000
01092	ZINC TOTAL (UG/L AS ZN)	19	420.000	--	*49.790	*420.000	*40.000	*30.000	*20.000	*6.920
01003	ARSENIC BOT. MAT (UG/G AS AS)	1	8.000	--	--	--	--	--	--	--
01028	CADMIUM BOT. MAT (UG/G AS CD)	2	--	--	--	--	--	--	--	--
01029	CHROMIUM TOTAL B (UG/G AS CR)	1	10.000	--	--	--	--	--	--	--
01038	COBALT BOT. MAT. (UG/G AS CO)	2	--	--	--	--	--	--	--	--
01043	COPPER BOT. MAT. (UG/G AS CU)	1	40.000	--	--	--	--	--	--	--
01170	IRON,SED,BED MAT (UG/G AS FE)	1	28000.000	--	--	--	--	--	--	--
01052	LEAD TOTAL BOT. (UG/G AS PB)	1	25.000	--	--	--	--	--	--	--
01053	MANGANESE BOT.MA (UG/G AS MN)	1	180.000	--	--	--	--	--	--	--
71921	MERCURY BTM UG/G AS HG	1	0.080	--	--	--	--	--	--	--
01148	SELENIUM BOT. MA (UG/G AS SE)	1	1.000	--	--	--	--	--	--	--
01093	ZINC BOTTOM MATE (UG/G AS ZN)	1	60.000	--	--	--	--	--	--	--
39740	2,4,5-T TOTAL(WA UG/L	12	0.020	0.000	0.004	0.020	0.010	0.000	0.000	0.000
39730	2,4-D TOTAL (WA UG/L	12	0.400	0.000	0.15i	0.400	0.295	0.060	0.027	0.000
39330	ALDRIN TOTAL (WA UG/L	12	0.000	--	--	--	--	--	--	--
39350	CHLORDANE TOT(WA UG/L	10	0.100	0.000	0.020	0.100	0.025	0.000	0.000	0.000
39570	DIAZINON TOT (WA UG/L	3	0.260	0.000	--	--	--	--	--	--
39380	DIELDRIN TOT (WA UG/L	12	0.030	0.000	0.011	0.030	0.020	0.010	0.000	0.000
39390	ENDRIN UNF REC (UG/L)	12	0.000	--	--	--	--	--	--	--
39420	HEPT EPOX TOT(WA UG/L	12	0.000	--	--	--	--	--	--	--
39410	HEPTACHLOR T.(WA UG/L	12	0.000	--	--	--	--	--	--	--
39340	LINDANE TOTAL(WA UG/L	12	0.010	0.000	0.001	0.010	0.000	0.000	0.000	0.000
39530	MALATHION TOT(WA UG/L	2	0.000	--	--	--	--	--	--	--
39600	MET PARTH TOT(WA UG/L	3	0.000	--	--	--	--	--	--	--
38260	DETERGENTS (MBAS MG/L	12	0.320	0.000	0.098	0.320	0.190	0.050	0.022	0.000
39360	P,P'-DDD UNFLT R UG/L	12	0.040	0.000	0.011	0.040	0.027	0.000	0.000	0.000
39365	P,P'-DDE, TOTAL UG/L	12	0.020	0.000	0.002	0.020	0.000	0.000	0.000	0.000
39370	P,P'-DDT UNFILT UG/L	12	0.080	0.000	0.026	0.080	0.065	0.005	0.000	0.000
39540	PARATHION TOT(WA UG/L	3	0.000	--	--	--	--	--	--	--
39760	SILVEX TOTAL (WA UG/L	12	0.000	--	--	--	--	--	--	--

Supplement 8. Statistical summary of water-quality data for the Red River of the North below Fargo, N. Dak., gaging station 05054020, July 1969 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Paremeter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, July 1969 through September 1986--Continued							
80030	GROSS ALPHA DIS. UG/L AS U-NAT	19	9.200	--	*4.093	*9.200	*5.200	*3.370	*2.679	*2.441
80050	GROS-B,D,SR-90-P PCI/L SR/Y-90	19	13.000	4.500	9.232	13.000	11.000	8.500	7.800	4.500
80040	GROSS ALPHA SUS. UG/L AS U-NAT	19	7.900	--	*2.520	*7.900	*3.500	*1.400	*0.600	*0.144
03515	GROSS BETA DISSO PCI/L AS CS-13	19	15.000	5.600	11.132	15.000	13.000	11.000	9.700	5.600
80060	GROS-B,S,SR-90 P PCI/L SR/Y-90	19	7.800	0.900	2.658	7.800	4.400	1.900	1.200	0.900
03516	GROSS BETA SUSPE PCI/L AS CS-13	19	9.000	0.900	3.100	9.000	5.000	2.100	1.400	0.900
82068	POTSSSIUM 40 DIS (PCI/L AS K40)	6	8.200	3.700	5.533	8.200	6.925	5.250	4.150	3.700
09511	RADIUM 226 DISS. (PCI/L)	19	0.130	0.030	0.081	0.130	0.100	0.080	0.060	0.030
80010	U DISS DFLUORO PCI/L	2	2.200	1.600	--	--	--	--	--	--
22703	URANIUM,NATURAL, UG/L AS U	16	3.000	1.000	1.375	3.000	2.000	1.000	1.000	1.000
70342	SED-SUSP-FALL-D- %	2	97.000	96.000	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	50	98.000	42.000	80.640	98.000	94.000	84.500	68.750	46.650
80156	SUS-SED DISCH + T/DAY	185	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	56	436.000	4.000	82.107	330.650	114.250	43.000	16.000	5.850
80155	DISCHARGE,SUSP.S T/DAY	185	5890.000	0.000	77.800	289.700	2.900	0.000	0.000	0.000
80157	SED-BED-FALL-D-. %	1	27.000	--	--	--	--	--	--	--
80158	SED-BED-FALL-D-. %	1	69.000	--	--	--	--	--	--	--
80159	SED-BED-FALL-D-. %	1	81.000	--	--	--	--	--	--	--
80160	SED-BED-FALL-D-. %	1	86.000	--	--	--	--	--	--	--
80161	SED-BED-FALL-D-. %	1	89.000	--	--	--	--	--	--	--
80162	SED-BED-FALL-D-1 %	1	92.000	--	--	--	--	--	--	--
80169	SED-BED-SIEVE-2. %	1	93.000	--	--	--	--	--	--	--
80170	SED-BED-SIEVE-4. %	1	96.000	--	--	--	--	--	--	--
80171	SED-BED-SIEVE-8. %	1	100.000	--	--	--	--	--	--	--
			Minnesota data, August 1992 through July 2001							
00061	DISCHARGE, INST. CFS	1	400.000	--	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	3	744.000	732.000	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	3	11.000	6.200	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	3	101.000	77.000	--	--	--	--	--	--
00400	PH, WH, FIELD (STANDARD UNIT	3	8.200	7.900	--	--	--	--	--	--

Supplement 8. Statistical summary of water-quality data for the Red River of the North below Fargo, N. Dak., gaging station 05054020, July 1969 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, August 1992 through July 2001--Continued							
00095	SPECIFIC CONDUCT US/CM @ 25C	3	731.000	315.000	--	--	--	--	--	--
00020	AIR TEMPERATURE DEGREES C	3	33.000	10.000	--	--	--	--	--	--
00010	WATER TEMPERATUR (DEGREES C)	3	25.400	2.200	--	--	--	--	--	--
00681	CARBON ORGANIC D (MG/L AS C)	1	7.200	--	--	--	--	--	--	--
80294	BED MAT FD DW<.0 PERCENT <.002M	1	48.000	--	--	--	--	--	--	--
80157	SED-BED-FALL-D-. %	1	54.000	--	--	--	--	--	--	--
80293	BED MAT FD DW<.0 PERCENT> .008M	1	60.000	--	--	--	--	--	--	--
80282	BED MAT FD DW<.0 PERCENT <.016M	1	69.000	--	--	--	--	--	--	--
80283	BED MAT FD DW<.0 PERCENT <.031M	1	83.000	--	--	--	--	--	--	--
80158	SED-BED-FALL-D-. %	1	92.000	--	--	--	--	--	--	--
80159	SED-BED-FALL-D-. %	1	97.000	--	--	--	--	--	--	--
80160	SED-BED-FALL-D-. %	1	99.000	--	--	--	--	--	--	--
80161	SED-BED-FALL-D-. %	1	100.000	--	--	--	--	--	--	--
80162	SED-BED-FALL-D-1 %	1	100.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 9. Statistical summary of water-quality data for the Sheyenne River above Harvey, N. Dak., gaging station 05054500, October 1971 through July 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Paremeter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through July 2001							
00065	GAGE HEIGHT (FEET)	10	8.770	3.730	5.572	8.770	7.488	5.120	3.912	3.730
00060	DISCHARGE CFS	24	25.000	0.180	5.850	24.500	7.075	3.600	1.150	0.300
00061	DISCHARGE, INST. CFS	271	500.000	0.160	37.037	187.200	32.000	5.200	1.600	0.492
00080	COLOR PLATINUM-COBAL	149	250.000	2.000	65.201	150.000	80.000	55.000	44.000	12.000
00540	RESIDUE FIXED (MG/L)	296	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	296	2.160	0.000	0.730	1.551	1.295	1.005	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	296	330.000	0.000	17.932	110.300	10.950	2.515	0.000	0.000
70300	RESIDUE DIS 180C MG/L	181	1590.000	152.000	881.989	1230.000	1025.000	921.000	804.000	388.000
70301	DISSOLVED SOLIDS MG/L	296	1610.000	0.000	525.169	1133.000	930.500	718.500	0.000	0.000
00025	AIR PRESSURE (MM OF HG)	77	795.000	714.000	759.870	779.000	772.000	766.000	758.500	716.900
00300	OXYGEN DISSOLVED (MG/L)	70	16.600	0.000	8.286	13.140	10.525	8.750	6.575	2.010
00301	OXYGEN DIS. PERC % OF SATURATIO	296	133.000	0.000	17.081	93.150	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	179	9.200	7.400	8.204	8.900	8.500	8.200	7.900	7.600
00403	PH, WH, LABORATO (STANDARD UNIT	120	9.000	7.000	8.187	8.800	8.400	8.200	8.000	7.600
90095	SPECIFIC CONDUCT MICROSIEMENS/C	122	2300.000	322.000	1312.639	1895.500	1540.000	1365.000	1180.000	380.800
00095	SPECIFIC CONDUCT US/CM @ 25C	290	2300.000	50.000	1190.245	1750.000	1480.000	1280.000	927.500	352.150
00020	AIR TEMPERATURE DEGREES C	172	35.000	-20.000	10.934	29.000	21.875	10.000	2.125	-5.525
00010	WATER TEMPERATUR (DEGREES C)	293	28.500	-0.500	9.065	24.860	17.000	7.000	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	296	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	296	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	296	110.000	0.000	0.372	0.000	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	296	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	296	550.000	0.000	120.676	331.500	197.500	120.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	181	140.000	13.000	35.309	56.900	42.000	33.000	27.500	18.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	181	69.000	3.200	26.420	58.800	36.000	22.000	15.000	8.400
00935	POTASSIUM DISSOL (MG/L AS K)	180	20.000	4.200	8.803	15.000	11.000	7.900	6.225	4.900
00931	SODIUM ADSORPTIO (RATIO)	296	19.000	0.000	4.929	14.000	9.000	4.000	0.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	15	380.000	100.000	274.000	380.000	320.000	300.000	250.000	100.000
00930	SODIUM DISSOLVED (MG/L AS NA)	181	480.000	20.000	239.122	370.000	300.000	250.000	180.000	63.700
00932	SODIUM, PERCENT PERCENT	296	91.000	0.000	42.064	86.150	76.000	54.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	296	0.000	--	--	--	--	--	--	--
00431	ANC, (MG/L AS CACO3	1	770.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	122	834.000	96.000	479.516	691.850	577.500	506.000	414.750	136.650
00410	ANC, FET, FIELD (MG/L AS CACO3	59	746.000	58.000	515.186	680.000	600.000	550.000	490.000	217.000
00417	ANC, FET, LAB (MG/L AS CACO3	3	607.000	370.000	--	--	--	--	--	--

Supplement 9. Statistical summary of water-quality data for the Sheyenne River above Harvey, N. Dak., gaging station 05054500, October 1971 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, October 1971 through July 2001--Continued								
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	35	910.000	260.000	603.714	830.000	730.000	640.000	520.000	292.000
00445	ANC CARB FET FIE (MG/L AS CO3)	32	87.000	0.000	7.219	61.000	3.000	0.000	0.000	0.000
71870	BROMIDE DISSOLVE MG/L AS BR	1	--	--	--	--	--	--	--	--
00940	CHLORIDE DISSOLV (MG/L AS CL)	181	54.000	2.200	17.400	28.900	21.000	17.000	14.000	6.950
00950	FLUORIDE DISSOLV (MG/L AS F)	181	0.700	0.100	0.295	0.400	0.400	0.300	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	174	52.000	2.200	24.397	47.000	32.000	24.500	14.000	6.675
00945	SULFATE DISSOLVE (MG/L AS SO4)	181	560.000	37.000	216.547	340.000	250.000	210.000	170.000	82.200
00608	NITROGEN AMMONIA (MG/L AS N)	42	0.670	--	*0.110	*0.375	*0.153	*0.050	*0.020	*0.007
00623	NITRO AMN & ORG (MG/L AS N)	22	1.600	0.200	1.045	1.600	1.400	1.100	0.675	0.200
71846	NITR. NH4 AS NH4 MG/L AS NH4	296	0.860	0.000	0.020	0.131	0.000	0.000	0.000	0.000
71845	NITROGEN, NH4, T MG/L AS NH4	296	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	296	2.500	0.000	0.064	0.592	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	296	1.210	0.000	0.043	0.324	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	296	5.360	0.000	0.189	1.422	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	296	0.000	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	152	2.000	--	*0.128	*0.441	*0.148	*0.051	*0.020	*0.008
00630	NO2 + NO3 TOTAL (MG/L AS N)	296	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	296	0.296	0.000	0.005	0.033	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	42	0.090	--	*0.013	*0.047	*0.020	*0.007	*0.003	*0.001
00607	NITROGEN ORGANIC (MG/L AS N)	296	1.600	0.000	0.058	0.554	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	296	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	296	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	296	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	296	1.700	0.000	0.122	0.744	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	296	0.000	--	--	--	--	--	--	--
00666	PHOSPHORUS DISS. (MG/L AS P)	133	0.750	0.010	0.234	0.495	0.340	0.200	0.140	0.067
00672	PHOSPHORUS HYDRO (MG/L AS P)	296	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	296	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	296	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	296	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	57	0.550	0.007	0.194	0.493	0.240	0.170	0.105	0.040
00621	NITROGEN NITRATE (MG/KG AS N)	296	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	296	48.000	0.000	4.669	20.150	6.250	2.100	0.000	0.000
00690	CARBON INORG + O (MG/L AS C)	296	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	296	0.000	--	--	--	--	--	--	--

Supplement 9. Statistical summary of water-quality data for the Sheyenne River above Harvey, N. Dak., gaging station 05054500, October 1971 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, October 1971 through July 2001--Continued								
70950	BIO CHL RATIO PE UNITS	296	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	296	0.000	--	--	--	--	--	--	--
01106	ALUMINUM DISSOLV (UG/L AS AL)	46	1000.000	--	*61.464	*176.500	*60.000	*20.000	*10.000	*3.384
01000	ARSENIC DISSOLVE (UG/L AS AS)	53	8.000	1.000	3.038	6.000	4.000	3.000	2.000	1.000
01005	BARIUM DISSOLVED (UG/L AS BA)	45	400.000	--	*70.066	*182.000	*75.000	*52.358	*42.209	*28.000
01020	BORON DISSOLVED (UG/L AS B)	172	1200.000	10.000	655.808	993.500	860.000	730.000	520.000	96.500
01025	CADMIUM DISSOLVE (UG/L AS CD)	46	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	45	10.000	--	*1.127	*8.800	*1.000	*0.328	*0.112	*0.024
01035	COBALT DISSOLVED (UG/L AS CO)	45	3.000	--	*0.637	*1.094	*0.846	*0.528	*0.360	*0.218
01040	COPPER DISSOLVED (UG/L AS CU)	46	8.000	--	*1.617	*6.950	*2.000	*1.000	*0.959	*0.297
00720	CYANIDE TOTAL (MG/L AS CN)	42	--	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	71	1000.000	20.000	191.690	946.000	210.000	100.000	50.000	30.000
01049	LEAD DISSOLVED (UG/L AS PB)	53	11.000	--	*0.719	*3.600	*0.584	*0.194	*0.070	*0.014
01130	LITHIUM DISSOLVE (UG/L AS LI)	52	190.000	10.000	87.615	143.500	120.000	90.000	53.750	15.950
01056	MANGANESE DISSOL (UG/L AS MN)	71	380.000	20.000	78.169	198.000	100.000	69.000	40.000	20.000
71890	MERCURY DISSOLVE UG/L AS HG	52	0.800	--	*0.159	*0.735	*0.200	*0.062	*0.024	*0.006
01060	MOLYBDENUM DISSO (UG/L AS MO)	53	4.000	--	*0.730	*2.000	*1.000	*0.561	*0.342	*0.171
01065	NICKEL DISSOLVED (UG/L AS NI)	45	7.000	--	*1.984	*4.700	*2.500	*2.000	*1.000	*0.492
01145	SELENIUM DISSOLV (UG/L AS SE)	53	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	52	460.000	50.000	204.635	420.500	237.500	190.000	142.500	81.300
01085	VANADIUM DISSOLV (UG/L AS V)	42	14.000	0.000	4.190	13.100	5.000	3.500	2.000	1.000
01090	ZINC DISSOLVED (UG/L AS ZN)	46	130.000	--	*9.776	*58.950	*8.000	*4.000	*1.448	*0.400
34757	TRIAZINE SCREEN UG/L	2	--	--	--	--	--	--	--	--
82068	POTSSSIUM 40 DIS (PCI/L AS K40)	4	10.000	7.500	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	296	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	296	0.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 10. Statistical summary of water-quality data for the Sheyenne River near Warwick, N. Dak., gaging station 05056000, January 1951 through July 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, January 1951 through July 2001							
00065	GAGE HEIGHT (FEET)	3	3.120	2.730	--	--	--	--	--	--
00060	DISCHARGE CFS	428	2050.000	0.100	83.627	328.550	62.750	15.000	3.500	1.145
00061	DISCHARGE, INST. CFS	287	3160.000	0.100	190.537	1044.000	96.000	19.000	5.400	1.080
00080	COLOR PLATINUM-COBAL	95	75.000	1.000	25.242	60.000	40.000	20.000	9.000	3.800
00540	RESIDUE FIXED (MG/L)	715	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	715	433.000	0.000	1.084	1.000	0.740	0.540	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	715	2450.000	0.000	68.150	347.000	48.700	5.840	0.000	0.000
70300	RESIDUE DIS 180C MG/L	531	1140.000	150.000	482.659	761.000	600.000	469.000	362.000	240.800
70301	DISSOLVED SOLIDS MG/L	715	1090.000	0.000	150.617	637.600	322.000	0.000	0.000	0.000
61028	TURBIDITY, FIELD (NTU)	1	85.000	--	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	8	734.000	720.000	726.750	734.000	729.750	726.500	723.500	720.000
00300	OXYGEN DISSOLVED (MG/L)	9	11.200	2.100	6.222	11.200	8.000	5.700	4.600	2.100
00301	OXYGEN DIS. PERC % OF SATURATIO	715	98.000	0.000	0.755	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	536	9.200	6.700	7.897	8.500	8.200	7.900	7.600	7.300
00403	PH, WH, LABORATO (STANDARD UNIT	33	8.900	6.900	7.964	8.550	8.200	8.000	7.750	6.970
90095	SPECIFIC CONDUCT MICROSIEMENS/C	52	1620.000	310.000	766.404	1296.500	975.250	704.500	557.250	361.600
00095	SPECIFIC CONDUCT US/CM @ 25C	702	1680.000	210.000	765.108	1218.500	936.250	738.500	579.750	375.000
00020	AIR TEMPERATURE DEGREES C	177	2080.000	-28.500	20.812	29.530	18.500	8.000	1.000	-15.100
00010	WATER TEMPERATUR (DEGREES C)	343	30.000	0.000	9.511	25.000	17.500	7.500	1.000	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	715	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	715	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	715	45.000	0.000	0.716	5.000	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	715	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	715	570.000	0.000	182.516	340.000	270.000	220.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	281	110.000	16.000	51.996	83.000	60.000	50.000	42.000	23.100
00925	MAGNESIUM DISSOL (MG/L AS MG)	281	71.400	6.900	27.896	43.900	34.000	29.000	21.000	11.000
00935	POTASSIUM DISSOL (MG/L AS K)	275	17.000	1.800	7.753	12.000	9.600	7.800	6.100	3.100
00931	SODIUM ADSORPTIO (RATIO)	715	6.000	0.000	1.526	4.000	2.000	2.000	0.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	4	140.000	63.000	--	--	--	--	--	--
00930	SODIUM DISSOLVED (MG/L AS NA)	536	230.000	10.000	73.812	150.000	100.000	69.000	42.000	19.850
00932	SODIUM, PERCENT PERCENT	715	67.000	0.000	26.162	52.000	42.000	32.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	715	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	41	496.000	99.000	289.122	489.300	394.000	279.000	205.000	107.100
39086	ALKALINITY,DIS,I (MG/L AS CACO3	4	351.000	256.000	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	421	636.000	63.000	289.029	425.700	353.000	289.000	229.500	119.700

Supplement 10. Statistical summary of water-quality data for the Sheyenne River near Warwick, N. Dak., gaging station 05056000, January 1951 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, January 1951 through July 2001--Continued									
95440	BICARBONATE MG/L AS CACO3	21	530.000	140.000	318.095	525.000	360.000	300.000	260.000	145.000
00453	BICARBONATE,DIS, (MG/L AS HCO3)	4	461.000	313.000	--	--	--	--	--	--
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	481	780.000	100.000	350.353	520.000	430.000	350.000	280.000	151.000
95445	CARBONATE MG/L AS CO3	21	28.000	0.000	1.905	25.800	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	4	0.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	403	104.000	0.000	1.715	13.600	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	248	37.000	0.600	12.612	22.000	17.000	13.000	8.200	4.000
00950	FLUORIDE DISSOLV (MG/L AS F)	177	0.900	0.100	0.228	0.400	0.300	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	166	40.000	0.400	16.767	28.650	21.000	16.000	11.750	5.385
00945	SULFATE DISSOLVE (MG/L AS SO4)	278	405.000	28.000	99.047	189.050	130.000	90.000	60.750	37.000
00608	NITROGEN AMMONIA (MG/L AS N)	5	0.100	0.050	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	4	1.200	1.000	--	--	--	--	--	--
00625	NITROGEN AMM+ORG (MG/L AS N)	5	1.800	1.200	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	715	0.130	0.000	0.001	0.000	0.000	0.000	0.000	0.000
71845	NITROGEN, NH4, T MG/L AS NH4	715	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	715	1.400	0.000	0.003	0.000	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	715	4.200	0.000	0.024	0.032	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	715	18.600	0.000	0.207	1.000	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	715	0.000	--	--	--	--	--	--	--
71850	N, NITRATE TOTAL MG/L AS NO3	40	9.600	0.200	2.440	4.400	2.800	2.150	1.700	0.715
00631	NO2 + NO3 DISSOL (MG/L AS N)	103	4.200	--	*0.211	*0.706	*0.230	*0.070	*0.030	*0.010
00630	NO2 + NO3 TOTAL (MG/L AS N)	715	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	715	0.131	0.000	0.001	0.000	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	21	0.040	--	*0.009	*0.040	*0.010	*0.006	*0.003	*0.001
71855	N, NITRITE TOTAL MG/L AS NO2	1	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	715	1.100	0.000	0.006	0.000	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	715	1.700	0.000	0.009	0.000	0.000	0.000	0.000	0.000
00600	NITROGEN TOTAL (MG/L AS N)	715	1.900	0.000	0.007	0.000	0.000	0.000	0.000	0.000
71887	NITROGEN, TOTAL MG/L AS NO3	715	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	715	1.230	0.000	0.011	0.000	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	715	0.880	0.000	0.004	0.000	0.000	0.000	0.000	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	109	0.980	0.010	0.168	0.425	0.230	0.130	0.070	0.020
00672	PHOSPHORUS HYDRO (MG/L AS P)	715	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	715	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	715	0.000	--	--	--	--	--	--	--

Supplement 10. Statistical summary of water-quality data for the Sheyenne River near Warwick, N. Dak., gaging station 05056000, January 1951 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, January 1951 through July 2001--Continued							
00670	PHOSPHORUS ORG.T (MG/L AS P)	715	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	7	0.400	0.020	0.203	0.400	0.280	0.210	0.110	0.020
00665	PHOSPHORUS TOTAL (MG/L AS P)	5	0.510	0.174	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	715	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	715	171.000	0.000	6.752	20.200	9.500	5.100	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	4	17.000	15.000	--	--	--	--	--	--
00689	CARBON ORGANIC P (MG/L AS C)	4	0.500	0.300	--	--	--	--	--	--
00690	CARBON INORG + O (MG/L AS C)	715	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	715	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	715	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	715	0.000	--	--	--	--	--	--	--
01106	ALUMINUM DISSOLV (UG/L AS AL)	21	411.000	--	*89.556	*402.200	*150.000	*20.000	*10.000	*5.749
01105	ALUMINUM TOTAL UG/L AS AL	1	200.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	57	13.000	1.000	5.298	10.300	8.000	5.000	2.000	1.000
01005	BARIUM DISSOLVED (UG/L AS BA)	22	200.000	--	*68.817	*200.000	*82.870	*57.324	*35.742	*19.375
01010	BERYLLIUM DISSOL (UG/L AS BE)	15	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	178	390.000	10.000	145.236	310.500	190.000	140.000	90.000	39.500
01025	CADMIUM DISSOLVE (UG/L AS CD)	22	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	22	--	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	22	--	--	--	--	--	--	--	--
01040	COPPER DISSOLVED (UG/L AS CU)	22	27.000	--	*4.993	*24.600	*6.827	*3.897	*1.365	*0.543
00720	CYANIDE TOTAL (MG/L AS CN)	14	--	--	--	--	--	--	--	--
71885	IRON UG/L AS FE	66	280.000	0.000	63.788	146.500	90.000	50.000	30.000	3.500
01046	IRON DISSOLVED (UG/L AS FE)	72	410.000	--	*61.850	*157.000	*87.500	*50.000	*20.000	*7.011
01045	IRON TOTAL (UG/L AS FE)	25	100.000	--	*35.971	*100.000	*40.000	*20.000	*10.000	*4.352
01049	LEAD DISSOLVED (UG/L AS PB)	55	16.000	--	*1.308	*6.200	*1.000	*0.492	*0.194	*0.052
01130	LITHIUM DISSOLVE (UG/L AS LI)	57	720.000	10.000	62.982	100.000	76.500	50.000	30.000	10.000
01056	MANGANESE DISSOL (UG/L AS MN)	70	660.000	5.000	69.329	209.000	82.500	50.000	20.000	10.000
01055	MANGANESE TOTAL (UG/L AS MN)	12	190.000	--	*43.743	*190.000	*50.000	*25.000	*4.868	*1.430
71890	MERCURY DISSOLVE UG/L AS HG	51	6.500	--	*0.400	*2.980	*0.200	*0.100	*0.022	*0.004
01060	MOLYBDENUM DISSO (UG/L AS MO)	56	17.000	--	*1.646	*5.900	*2.000	*1.000	*0.468	*0.180
01065	NICKEL DISSOLVED (UG/L AS NI)	23	12.000	--	*3.119	*11.400	*4.000	*2.000	*1.000	*0.380
01145	SELENIUM DISSOLV (UG/L AS SE)	57	23.000	--	*2.317	*12.800	*1.000	*0.325	*0.079	*0.009
01075	SILVER DISSOLVED (UG/L AS AG)	16	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	57	400.000	10.000	229.140	371.000	290.000	220.000	170.000	90.700

Supplement 10. Statistical summary of water-quality data for the Sheyenne River near Warwick, N. Dak., gaging station 05056000, January 1951 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, January 1951 through July 2001--Continued								
01085	VANADIUM DISSOLV (UG/L AS V)	18	7.000	--	*1.554	*7.000	*2.000	*1.000	*0.532	*0.230
01090	ZINC DISSOLVED (UG/L AS ZN)	22	40.000	--	*11.004	*38.500	*13.172	*9.500	*4.016	*2.032
07060	IRON 59 DISSOLVE (PCI/L)	2	1.000	0.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	715	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	715	0.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 11. Statistical summary of water-quality data for the Sheyenne River near Cooperstown, N. Dak., gaging station 05057000, October 1959 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1959 through April 2001							
00065	GAGE HEIGHT (FEET)	2	11.100	10.290	--	--	--	--	--	--
00060	DISCHARGE CFS	237	4900.000	0.500	179.307	839.600	145.000	33.000	13.500	4.920
00061	DISCHARGE, INST. CFS	347	5290.000	0.020	371.178	1808.000	291.000	58.000	16.000	3.340
00310	BOD 5-DAY AT 20 (MG/L)	69	9.300	0.400	2.648	7.950	3.000	2.100	1.500	0.750
00080	COLOR PLATINUM-COBAL	220	100.000	2.000	28.577	70.000	40.000	25.000	15.000	5.000
00120	PRECIPITATION 4 (INCHES)	1	122.000	--	--	--	--	--	--	--
00540	RESIDUE FIXED (MG/L)	586	0.000	--	--	--	--	--	--	--
00530	RESIDUE TOTAL (MG/L)	9	120.000	--	*40.055	*120.000	*50.000	*43.000	*7.500	*2.499
70303	RESIDUE DIS TON/ T/AC-FT	586	706.000	0.000	2.148	1.037	0.842	0.605	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	586	4290.000	0.000	114.077	607.800	71.325	12.500	0.000	0.000
70300	RESIDUE DIS 180C MG/L	358	1240.000	143.000	572.542	796.200	671.250	597.500	498.500	250.000
70301	DISSOLVED SOLIDS MG/L	586	1230.000	0.000	279.898	716.000	590.250	170.000	0.000	0.000
00070	TURBIDITY (JCU)	1	110.000	--	--	--	--	--	--	--
00076	TURBIDITY (NTU)	70	28.000	2.400	10.891	24.000	16.000	8.700	5.675	2.920
00025	AIR PRESSURE (MM OF HG)	30	745.000	653.000	726.133	743.350	735.000	728.000	721.500	686.550
00300	OXYGEN DISSOLVED (MG/L)	77	13.500	3.000	8.449	12.630	10.250	8.400	6.950	3.780
00301	OXYGEN DIS. PERC % OF SATURATIO	586	113.000	0.000	7.717	86.650	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	369	8.700	6.500	7.932	8.500	8.200	8.000	7.700	7.300
00403	PH, WH, LABORATO (STANDARD UNIT	52	8.600	6.700	8.021	8.500	8.300	8.100	7.800	7.230
00094	FIELD CONDUCTIVI US/CM @ 25C	17	1080.000	307.000	663.235	1080.000	866.500	608.000	475.500	307.000
90095	SPECIFIC CONDUCT MICROSIEMENS/C	41	1600.000	385.000	882.171	1510.000	1020.000	935.000	603.000	428.200
00095	SPECIFIC CONDUCT US/CM @ 25C	571	1880.000	213.000	859.347	1250.000	1010.000	906.000	700.000	380.000
00020	AIR TEMPERATURE DEGREES C	201	37.500	-30.000	9.063	28.000	18.000	10.500	0.500	-12.950
00010	WATER TEMPERATUR (DEGREES C)	462	27.800	0.000	8.933	23.425	16.500	7.100	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	586	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	586	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	586	280.000	0.000	3.567	22.000	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	586	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	586	680.000	0.000	181.592	400.000	320.000	230.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	328	154.000	19.000	66.640	100.000	78.000	66.000	56.000	28.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	328	72.000	6.500	31.059	43.550	37.750	33.000	27.000	12.000
00935	POTASSIUM DISSOL (MG/L AS K)	343	28.000	0.100	8.731	11.000	9.600	8.500	7.700	6.500
00931	SODIUM ADSORPTIO (RATIO)	586	4.000	0.000	1.251	3.000	2.000	2.000	0.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	35	120.000	40.000	94.286	120.000	110.000	100.000	85.000	44.000
00930	SODIUM DISSOLVED (MG/L AS NA)	361	920.000	10.000	83.333	125.800	99.000	83.000	63.000	27.000

Supplement 11. Statistical summary of water-quality data for the Sheyenne River near Cooperstown, N. Dak., gaging station 05057000, October 1959 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, October 1959 through April 2001--Continued									
00932	SODIUM, PERCENT PERCENT	586	55.000	0.000	22.389	45.000	37.000	31.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	586	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	67	570.000	80.000	282.627	451.400	371.000	307.000	190.000	107.000
00418	ALKALINITY,DIS,F (MG/L AS CACO3	8	416.000	125.000	240.750	416.000	353.250	203.500	151.250	125.000
39086	ALKALINITY,DIS,I (MG/L AS CACO3	10	416.000	81.000	230.300	416.000	369.250	206.000	119.750	81.000
00410	ANC, FET, FIELD (MG/L AS CACO3	303	700.000	64.000	313.957	453.200	372.000	323.000	270.000	116.200
95440	BICARBONATE MG/L AS CACO3	21	520.000	100.000	291.905	510.000	385.000	260.000	185.000	106.000
00453	BICARBONATE,DIS, (MG/L AS HCO3)	10	508.000	99.000	258.400	508.000	370.750	227.000	146.250	99.000
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	252	850.000	80.000	381.643	553.500	450.000	390.000	330.000	140.000
95445	CARBONATE MG/L AS CO3	21	12.000	0.000	1.857	11.800	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	10	0.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	242	18.000	0.000	0.227	0.000	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	305	39.000	0.100	15.849	25.000	19.000	16.000	12.000	6.130
00950	FLUORIDE DISSOLV (MG/L AS F)	295	0.700	0.000	0.245	0.400	0.300	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	285	50.000	0.100	19.915	29.000	25.000	21.000	15.000	11.000
00945	SULFATE DISSOLVE (MG/L AS SO4)	310	360.000	21.100	142.581	213.250	170.000	140.000	120.000	64.550
00608	NITROGEN AMMONIA (MG/L AS N)	77	0.740	--	*0.175	*0.627	*0.230	*0.100	*0.025	*0.007
00623	NITRO AMN & ORG (MG/L AS N)	68	2.400	0.020	1.150	1.800	1.375	1.100	0.933	0.632
00624	NITROGEN SUSPEND (MG/L AS N)	63	6.100	0.000	0.459	1.320	0.500	0.300	0.100	0.000
00625	NITROGEN AMM+ORG (MG/L AS N)	76	7.200	0.790	1.562	2.575	1.675	1.400	1.200	0.886
71846	NITR. NH4 AS NH4 MG/L AS NH4	586	0.950	0.000	0.030	0.187	0.000	0.000	0.000	0.000
00610	NITROGEN AMMONIA (MG/L AS N)	69	0.820	0.000	0.205	0.670	0.245	0.120	0.060	0.010
71845	NITROGEN, NH4, T MG/L AS NH4	586	0.990	0.000	0.030	0.190	0.000	0.000	0.000	0.000
00602	NITROGEN DISSOLV (MG/L AS N)	586	2.600	0.000	0.151	1.300	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	586	1.700	0.000	0.042	0.293	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	586	25.000	0.000	0.448	2.465	0.200	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	586	1.200	0.000	0.018	0.090	0.000	0.000	0.000	0.000
00631	NO2 + NO3 DISSOL (MG/L AS N)	155	2.100	--	*0.227	*1.120	*0.220	*0.100	*0.024	*0.010
00630	NO2 + NO3 TOTAL (MG/L AS N)	572	1.300	0.000	0.022	0.100	0.000	0.000	0.000	0.000
71856	NITR. NO2 AS NO2 MG/L AS NO2	586	0.360	0.000	0.005	0.030	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	84	0.110	--	*0.013	*0.047	*0.010	*0.010	*0.005	*0.002
00615	NITROGEN,NITRITE MG/L AS N	69	0.140	--	*0.022	*0.095	*0.020	*0.020	*0.007	*0.003
00607	NITROGEN ORGANIC (MG/L AS N)	586	2.100	0.000	0.114	1.065	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	586	7.100	0.000	0.174	1.400	0.000	0.000	0.000	0.000
00600	NITROGEN TOTAL (MG/L AS N)	586	7.300	0.000	0.231	1.700	0.000	0.000	0.000	0.000

Supplement 11. Statistical summary of water-quality data for the Sheyenne River near Cooperstown, N. Dak., gaging station 05057000, October 1959 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1959 through April 2001--Continued							
71887	NITROGEN, TOTAL MG/L AS NO3	586	32.000	0.000	0.909	7.200	0.000	0.000	0.000	0.000
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	586	1.400	0.000	0.065	0.520	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	586	1.700	0.000	0.064	0.550	0.000	0.000	0.000	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	160	0.480	0.010	0.165	0.339	0.200	0.160	0.110	0.041
00678	PHOSPHORUS HYDRO (MG/L AS P)	36	0.560	0.010	0.210	0.535	0.237	0.205	0.142	0.061
00677	PHOSPHORUS HYDRO (MG/L AS P)	36	0.480	0.020	0.179	0.472	0.210	0.165	0.115	0.046
00672	PHOSPHORUS HYDRO (MG/L AS P)	586	0.180	0.000	0.002	0.000	0.000	0.000	0.000	0.000
00669	PHOSPHORUS HYDRO (MG/L AS P)	586	0.180	0.000	0.003	0.007	0.000	0.000	0.000	0.000
00673	PHOSPHORUS ORG. (MG/L AS P)	586	0.100	0.000	0.001	0.000	0.000	0.000	0.000	0.000
00670	PHOSPHORUS ORG.T (MG/L AS P)	586	1420.000	0.000	2.425	0.010	0.000	0.000	0.000	0.000
00671	PHOSPHORUS ORTHO (MG/L AS P)	76	0.440	0.020	0.148	0.373	0.190	0.135	0.090	0.038
70507	PHOS ORTHO TOT A MG/L AS P	69	0.430	0.010	0.160	0.335	0.205	0.160	0.100	0.055
00665	PHOSPHORUS TOTAL (MG/L AS P)	77	0.570	0.010	0.242	0.511	0.290	0.220	0.170	0.090
71886	PHOSPHORUS TOT P MG/L AS PO4	65	1.700	0.030	0.708	1.540	0.860	0.670	0.490	0.280
00621	NITROGEN NITRATE (MG/KG AS N)	586	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	586	101.000	0.000	5.790	22.650	7.525	3.100	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	69	34.000	6.700	15.829	27.000	20.000	15.000	11.500	7.650
00689	CARBON ORGANIC P (MG/L AS C)	63	8.900	0.100	1.156	2.960	1.400	0.900	0.500	0.120
00690	CARBON INORG + O (MG/L AS C)	586	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	586	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	586	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	586	0.000	--	--	--	--	--	--	--
31501	TOT COLI,MENDO M COLS./100 ML	68	28000.000	1.000	4263.676	18100.006	7600.000	740.000	160.000	4.000
31625	COLIFORM FECAL 0 COLS./100 ML	66	2300.000	1.000	128.803	800.000	110.000	28.500	12.250	2.000
31673	FECAL STREP,KF M COLS./100 ML	67	8000.000	2.000	478.119	2939.997	220.000	110.000	34.000	8.600
01106	ALUMINUM DISSOLV (UG/L AS AL)	19	387.000	--	*114.352	*387.000	*200.000	*40.000	*20.000	*10.000
01105	ALUMINUM TOTAL UG/L AS AL	1	200.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	52	12.000	--	*4.082	*10.350	*5.750	*3.500	*2.000	*0.831
01005	BARIUM DISSOLVED (UG/L AS BA)	19	--	--	--	--	--	--	--	--
01010	BERYLLIUM DISSOL (UG/L AS BE)	10	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	286	890.000	10.000	176.738	276.500	210.000	180.000	130.000	70.000
01025	CADMIUM DISSOLVE (UG/L AS CD)	19	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	19	--	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	19	--	--	--	--	--	--	--	--
01040	COPPER DISSOLVED (UG/L AS CU)	18	34.000	--	*7.985	*34.000	*12.500	*5.000	*1.920	*0.679

Supplement 11. Statistical summary of water-quality data for the Sheyenne River near Cooperstown, N. Dak., gaging station 05057000, October 1959 through April 2001--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1959 through April 2001--Continued							
00720	CYANIDE TOTAL (MG/L AS CN)	14	--	--	--	--	--	--	--	--
71885	IRON UG/L AS FE	51	910.000	20.000	118.235	558.001	110.000	60.000	40.000	20.000
01046	IRON DISSOLVED (UG/L AS FE)	140	700.000	--	*52.590	*170.000	*60.000	*30.000	*10.000	*4.354
01044	IRON SUSPENDED (UG/L AS FE)	66	1800.000	10.000	469.848	1165.000	682.500	370.000	227.500	100.000
01045	IRON TOTAL (UG/L AS FE)	74	1800.000	20.000	490.135	1200.000	692.500	390.000	237.500	60.000
01049	LEAD DISSOLVED (UG/L AS PB)	51	200.000	--	*5.650	*20.400	*1.000	*0.200	*0.033	*0.003
01130	LITHIUM DISSOLVE (UG/L AS LI)	52	190.000	1.000	53.481	100.000	70.000	51.500	30.000	16.500
01056	MANGANESE DISSOL (UG/L AS MN)	128	5000.000	2.000	577.773	3455.000	460.000	230.000	100.000	24.500
01054	MANGANESE SUSPEN (UG/L AS MN)	70	4500.000	--	*306.179	*637.000	*330.000	*195.000	*100.000	*26.502
01055	MANGANESE TOTAL (UG/L AS MN)	96	8600.000	8.000	1082.167	4575.001	865.000	430.000	242.500	10.000
71890	MERCURY DISSOLVE UG/L AS HG	49	0.600	--	*0.122	*0.450	*0.144	*0.100	*0.043	*0.019
01060	MOLYBDENUM DISSO (UG/L AS MO)	52	20.000	--	*2.233	*11.500	*2.000	*1.000	*0.575	*0.215
01065	NICKEL DISSOLVED (UG/L AS NI)	19	14.000	--	*4.512	*14.000	*7.000	*4.000	*1.447	*0.558
01145	SELENIUM DISSOLV (UG/L AS SE)	52	14.000	--	*1.247	*8.700	*1.000	*0.261	*0.079	*0.013
01075	SILVER DISSOLVED (UG/L AS AG)	10	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	52	500.000	60.000	289.115	487.000	377.500	320.000	195.000	89.650
01085	VANADIUM DISSOLV (UG/L AS V)	18	3.000	--	*1.540	*3.000	*2.000	*1.000	*1.000	*0.471
01090	ZINC DISSOLVED (UG/L AS ZN)	19	400.000	--	*33.245	*400.000	*20.000	*10.328	*6.000	*2.137
01043	COPPER BOT. MAT. (UG/G AS CU)	1	3.000	--	--	--	--	--	--	--
07060	IRON 59 DISSOLVE (PCI/L)	2	3.000	1.000	--	--	--	--	--	--
82068	POTSSSIUM 40 DIS (PCI/L AS K40)	21	7.500	5.300	6.381	7.470	6.950	6.300	5.850	5.340
80156	SUS-SED DISCH + T/DAY	586	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	586	0.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 12. Statistical summary of water-quality data for Baldhill Creek near Dazey, N. Dak., gaging station 05057200, October 1971 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, October 1971 through April 2001									
00065	GAGE HEIGHT (FEET)	1	6.800	--	--	--	--	--	--	--
00060	DISCHARGE CFS	52	1050.000	0.160	55.479	225.100	28.750	10.200	3.375	0.375
00061	DISCHARGE, INST. CFS	292	2350.000	0.010	100.692	574.401	29.750	4.600	1.600	0.197
00310	BOD 5-DAY AT 20 (MG/L)	36	8.600	0.800	2.883	7.240	3.675	2.350	1.450	1.140
00080	COLOR PLATINUM-COBAL	38	80.000	5.000	31.553	70.500	50.000	27.500	18.750	5.000
00540	RESIDUE FIXED (MG/L)	346	0.000	--	--	--	--	--	--	--
00530	RESIDUE TOTAL (MG/L)	10	74.000	--	*25.399	*74.000	*45.250	*19.000	*5.500	*1.989
70303	RESIDUE DIS TON/ T/AC-FT	346	127.000	0.000	0.542	0.916	0.183	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	346	1120.000	0.000	23.033	86.250	0.027	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	87	991.000	131.000	513.920	853.000	646.000	550.000	391.000	150.200
70301	DISSOLVED SOLIDS MG/L	346	1020.000	0.000	125.936	667.250	124.500	0.000	0.000	0.000
00076	TURBIDITY (NTU)	38	63.000	1.200	8.542	56.350	10.000	4.500	2.475	1.390
00025	AIR PRESSURE (MM OF HG)	17	740.000	719.000	728.706	740.000	733.000	729.000	721.500	719.000
00300	OXYGEN DISSOLVED (MG/L)	45	15.400	2.800	9.724	14.320	12.100	10.000	7.400	4.490
00301	OXYGEN DIS, PERC % OF SATURATIO	346	123.000	0.000	8.127	87.300	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	96	8.700	6.700	7.968	8.415	8.200	8.000	7.725	7.300
00403	PH, WH, LABORATO (STANDARD UNIT	38	8.500	6.700	7.789	8.405	8.100	7.900	7.400	6.890
90095	SPECIFIC CONDUCT MICROSIEMENS/C	47	1420.000	213.000	760.426	1236.000	919.000	809.000	621.000	238.600
00095	SPECIFIC CONDUCT US/CM @ 25C	331	1630.000	204.000	853.921	1410.000	1020.000	890.000	660.000	280.000
00020	AIR TEMPERATURE DEGREES C	170	34.500	-32.000	8.909	28.950	18.500	8.500	1.000	-14.175
00010	WATER TEMPERATUR (DEGREES C)	339	29.000	0.000	8.896	24.000	17.900	6.500	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	346	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	346	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	346	120.000	0.000	7.844	70.300	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	346	120.000	0.000	2.116	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	346	660.000	0.000	75.436	386.500	81.250	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	87	160.000	20.000	63.621	120.000	79.000	61.000	40.000	23.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	87	68.000	7.000	34.279	57.600	44.000	38.000	24.000	8.600
00935	POTASSIUM DISSOL (MG/L AS K)	87	16.000	4.800	9.675	15.000	11.000	9.300	7.800	6.100
00931	SODIUM ADSORPTIO (RATIO)	346	4.000	0.000	0.341	2.000	0.225	0.000	0.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	23	140.000	12.000	68.696	138.000	88.000	73.000	35.000	12.400
00930	SODIUM DISSOLVED (MG/L AS NA)	87	150.000	4.700	55.632	130.000	77.000	58.000	23.000	7.200
00932	SODIUM, PERCENT PERCENT	346	54.000	0.000	6.483	32.650	10.250	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	346	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	54	480.000	63.000	232.741	432.500	295.250	235.000	145.000	72.750

Supplement 12. Statistical summary of water-quality data for Baldhill Creek near Dazey, N. Dak., gaging station 05057200, October 1971 through April 2001--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
95410	ANC, TIT 4.5, LA MG/L AS CACO3	1	470.000	--	--	--	--	--	--	--
00418	ALKALINITY,DIS,F (MG/L AS CACO3	10	333.000	62.000	186.600	333.000	279.250	166.500	111.000	62.000
39086	ALKALINITY,DIS,I (MG/L AS CACO3	10	337.000	60.000	188.300	337.000	284.000	167.500	110.250	60.000
00410	ANC, FET, FIELD (MG/L AS CACO3	44	560.000	57.000	257.091	469.500	313.750	280.000	129.750	73.000
95440	BICARBONATE MG/L AS CACO3	20	370.000	87.000	238.050	370.000	327.500	255.000	150.000	87.350
00453	BICARBONATE,DIS, (MG/L AS HCO3)	10	411.000	73.000	229.800	411.000	346.500	204.500	134.750	73.000
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	17	590.000	89.000	329.353	590.000	380.000	340.000	280.000	89.000
95445	CARBONATE MG/L AS CO3	20	4.000	0.000	0.200	3.800	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	10	0.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	16	4.000	0.000	0.438	4.000	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	97	51.000	2.100	16.515	41.300	21.000	15.000	8.200	3.200
00950	FLUORIDE DISSOLV (MG/L AS F)	87	1.000	0.000	0.182	0.300	0.200	0.200	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	77	43.000	0.100	14.383	32.000	18.500	13.000	9.000	2.200
00945	SULFATE DISSOLVE (MG/L AS SO4)	87	300.000	17.000	158.874	286.000	210.000	170.000	110.000	29.000
00608	NITROGEN AMMONIA (MG/L AS N)	47	0.750	--	*0.129	*0.536	*0.150	*0.060	*0.020	*0.005
00623	NITRO AMN & ORG (MG/L AS N)	38	2.300	0.420	0.934	1.540	1.025	0.880	0.700	0.496
00624	NITROGEN SUSPEND (MG/L AS N)	37	1.600	--	*0.404	*1.150	*0.600	*0.300	*0.109	*0.048
00625	NITROGEN AMM+ORG (MG/L AS N)	48	2.300	0.690	1.377	2.100	1.600	1.400	1.025	0.748
71846	NITR. NH4 AS NH4 MG/L AS NH4	346	0.970	0.000	0.023	0.140	0.000	0.000	0.000	0.000
00610	NITROGEN AMMONIA (MG/L AS N)	38	0.810	--	*0.142	*0.553	*0.208	*0.090	*0.047	*0.010
71845	NITROGEN, NH4, T MG/L AS NH4	346	1.040	0.000	0.019	0.120	0.000	0.000	0.000	0.000
00602	NITROGEN DISSOLV (MG/L AS N)	346	2.300	0.000	0.127	1.000	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	346	1.700	0.000	0.041	0.230	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	346	7.700	0.000	0.208	1.195	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	346	0.980	0.000	0.023	0.016	0.000	0.000	0.000	0.000
00631	NO2 + NO3 DISSOL (MG/L AS N)	48	2.200	--	*0.377	*1.800	*0.712	*0.056	*0.022	*0.005
00630	NO2 + NO3 TOTAL (MG/L AS N)	331	1.100	0.000	0.026	0.100	0.000	0.000	0.000	0.000
71856	NITR. NO2 AS NO2 MG/L AS NO2	346	0.200	0.000	0.006	0.030	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	37	0.060	--	*0.016	*0.060	*0.015	*0.010	*0.004	*0.001
00615	NITROGEN,NITRITE MG/L AS N	38	0.160	--	*0.029	*0.141	*0.040	*0.010	*0.005	*0.001
00607	NITROGEN ORGANIC (MG/L AS N)	346	2.300	0.000	0.089	0.786	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	346	2.100	0.000	0.168	1.400	0.000	0.000	0.000	0.000
00600	NITROGEN TOTAL (MG/L AS N)	346	4.000	0.000	0.231	1.800	0.000	0.000	0.000	0.000
71887	NITROGEN, TOTAL MG/L AS NO3	346	15.000	0.000	0.764	6.595	0.000	0.000	0.000	0.000
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	346	1.630	0.000	0.049	0.400	0.000	0.000	0.000	0.000

Supplement 12. Statistical summary of water-quality data for Baldhill Creek near Dazey, N. Dak., gaging station 05057200, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
00650	PHOSPHATE TOTAL (MG/L AS PO4)	346	1.500	0.000	0.031	0.152	0.000	0.000	0.000	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	38	0.360	--	*0.087	*0.312	*0.142	*0.040	*0.028	*0.006
00678	PHOSPHORUS HYDRO (MG/L AS P)	24	0.410	0.010	0.142	0.395	0.213	0.120	0.055	0.015
00677	PHOSPHORUS HYDRO (MG/L AS P)	24	0.310	0.010	0.090	0.308	0.130	0.045	0.020	0.010
00672	PHOSPHORUS HYDRO (MG/L AS P)	346	0.050	0.000	0.001	0.010	0.000	0.000	0.000	0.000
00669	PHOSPHORUS HYDRO (MG/L AS P)	346	0.170	0.000	0.003	0.010	0.000	0.000	0.000	0.000
00673	PHOSPHORUS ORG. (MG/L AS P)	346	0.110	0.000	0.002	0.010	0.000	0.000	0.000	0.000
00670	PHOSPHORUS ORG.T (MG/L AS P)	346	0.130	0.000	0.002	0.010	0.000	0.000	0.000	0.000
00671	PHOSPHORUS ORTHO (MG/L AS P)	53	0.530	--	*0.096	*0.357	*0.145	*0.040	*0.010	*0.003
70507	PHOS ORTHO TOT A MG/L AS P	37	0.480	0.010	0.086	0.282	0.135	0.050	0.020	0.010
00665	PHOSPHORUS TOTAL (MG/L AS P)	48	0.690	0.030	0.180	0.537	0.275	0.130	0.062	0.034
71886	PHOSPHORUS TOT P MG/L AS PO4	37	1.200	0.090	0.432	1.110	0.640	0.310	0.180	0.090
00621	NITROGEN NITRATE (MG/KG AS N)	346	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	346	40.000	0.000	1.703	7.660	1.800	0.000	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	37	41.000	3.300	13.911	39.200	15.000	12.000	9.500	4.830
00689	CARBON ORGANIC P (MG/L AS C)	36	11.000	0.300	1.422	5.135	1.600	0.800	0.600	0.385
00690	CARBON INORG + O (MG/L AS C)	346	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	346	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	346	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	346	0.000	--	--	--	--	--	--	--
31501	TOT COLI,MENDO M COLS./100 ML	35	27000.000	2.000	4763.429	19800.008	8000.000	850.000	58.000	2.800
31625	COLIFORM FECAL 0 COLS./100 ML	35	2800.000	--	*203.362	*1440.001	*120.000	*20.000	*7.000	*0.502
31673	FECAL STREP,KF M COLS./100 ML	35	16000.000	3.000	1113.571	8000.008	650.000	100.000	24.000	3.800
01000	ARSENIC DISSOLVE (UG/L AS AS)	33	9.000	1.000	3.030	7.600	4.000	3.000	2.000	1.000
01020	BORON DISSOLVED (UG/L AS B)	77	830.000	20.000	163.117	323.000	220.000	150.000	90.000	29.000
01046	IRON DISSOLVED (UG/L AS FE)	87	1000.000	--	*70.363	*200.000	*90.000	*40.000	*20.000	*5.254
01044	IRON SUSPENDED (UG/L AS FE)	38	4600.000	30.000	574.474	3649.999	535.000	250.000	160.000	96.500
01045	IRON TOTAL (UG/L AS FE)	38	4700.000	40.000	610.263	3749.999	555.000	270.000	177.500	116.000
01049	LEAD DISSOLVED (UG/L AS PB)	33	2.000	--	*0.467	*1.300	*0.597	*0.351	*0.206	*0.095
01130	LITHIUM DISSOLVE (UG/L AS LI)	33	110.000	7.000	47.030	100.200	69.000	50.000	20.000	7.700
01056	MANGANESE DISSOL (UG/L AS MN)	87	2200.000	9.000	213.460	612.000	240.000	140.000	68.000	10.000
01054	MANGANESE SUSPEN (UG/L AS MN)	38	840.000	--	*205.924	*678.500	*385.000	*115.000	*20.000	*4.508
01055	MANGANESE TOTAL (UG/L AS MN)	38	2100.000	40.000	445.526	969.499	577.500	360.000	200.000	97.000
71890	MERCURY DISSOLVE UG/L AS HG	33	10.000	--	*0.395	*3.490	*0.100	*0.100	*0.013	*0.002
01060	MOLYBDENUM DISSO (UG/L AS MO)	33	3.000	--	*0.995	*2.300	*1.000	*0.793	*0.506	*0.262

Supplement 12. Statistical summary of water-quality data for Baldhill Creek near Dazey, N. Dak., gaging station 05057200, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
01145	SELENIUM DISSOLV (UG/L AS SE)	33	2.000	--	*0.630	*1.300	*0.777	*0.556	*0.393	*0.233
01080	STRONTIUM DISSOL (UG/L AS SR)	32	580.000	73.000	335.094	521.500	420.000	350.000	252.500	116.550
07060	IRON 59 DISSOLVE (PCI/L)	2	1.000	1.000	--	--	--	--	--	--
82068	POTSSSIUM 40 DIS (PCI/L AS K40)	6	6.600	4.300	5.283	6.600	5.925	5.250	4.525	4.300
80156	SUS-SED DISCH + T/DAY	346	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	346	0.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 13. Statistical summary of water-quality data for Lake Ashtabula at Baldhill Dam, N. Dak., gaging station 05057500, February 1960 through March 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, February 1960 through March 2001									
00065	GAGE HEIGHT (FEET)	2	65.200	63.280	--	--	--	--	--	--
00080	COLOR PLATINUM-COBAL	3	28.000	20.000	--	--	--	--	--	--
00540	RESIDUE FIXED (MG/L)	8	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	8	0.970	0.000	0.517	0.970	0.810	0.555	0.110	0.000
70302	DISSOLVED SOLIDS TONS/DAY	8	0.000	--	--	--	--	--	--	--
70300	RESIDUE DIS 180C MG/L	6	713.000	326.000	507.500	713.000	627.500	505.500	378.500	326.000
70301	DISSOLVED SOLIDS MG/L	8	717.000	0.000	365.625	717.000	572.750	385.000	77.750	0.000
00077	TRANSPARENCY (IN (INCHES)	2	144.000	97.000	--	--	--	--	--	--
61028	TURBIDITY, FIELD (NTU)	1	0.000	--	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	2	732.000	722.000	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	2	12.000	11.000	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	8	87.000	0.000	20.875	87.000	60.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	8	8.600	7.300	7.788	8.600	8.225	7.650	7.400	7.300
00095	SPECIFIC CONDUCT US/CM @ 25C	8	1560.000	529.000	868.000	1560.000	1051.000	799.000	619.250	529.000
00020	AIR TEMPERATURE DEGREES C	2	4.500	-7.000	--	--	--	--	--	--
00010	WATER TEMPERATUR (DEGREES C)	4	9.000	0.000	--	--	--	--	--	--
00904	HARDNESS NC. DIS (MG/L AS CACO3	8	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	8	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	8	30.000	0.000	5.500	30.000	10.500	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	8	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	8	350.000	0.000	187.500	350.000	285.000	205.000	45.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	6	66.000	40.000	49.167	66.000	59.250	45.000	41.500	40.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	6	44.000	20.000	30.833	44.000	39.500	30.500	21.500	20.000
00935	POTASSIUM DISSOL (MG/L AS K)	6	13.000	8.400	10.000	13.000	11.500	9.400	8.700	8.400
00931	SODIUM ADSORPTIO (RATIO)	8	3.000	0.000	1.500	3.000	2.000	2.000	0.250	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	6	120.000	41.000	74.500	120.000	96.750	71.500	50.750	41.000
00932	SODIUM, PERCENT PERCENT	8	42.000	0.000	28.125	42.000	39.000	36.500	8.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	8	0.000	--	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	6	336.000	189.000	248.333	336.000	311.250	225.500	205.500	189.000
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	6	410.000	230.000	301.667	410.000	380.000	270.000	252.500	230.000
00445	ANC CARB FET FIE (MG/L AS CO3)	6	4.000	0.000	0.667	4.000	1.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	6	23.000	9.000	15.500	23.000	22.250	14.500	9.750	9.000
00950	FLUORIDE DISSOLV (MG/L AS F)	6	0.800	0.000	0.300	0.800	0.500	0.200	0.150	0.000
00955	SILICA DISSOLVED (MG/L AS SIO2)	6	22.000	0.700	10.883	22.000	17.500	11.700	2.575	0.700
00945	SULFATE DISSOLVE (MG/L AS SO4)	6	240.000	76.000	145.333	240.000	210.000	132.000	88.000	76.000

Supplement 13. Statistical summary of water-quality data for Lake Ashtabula at Baldhill Dam, N. Dak., gaging station 05057500, February 1960 through March 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, February 1960 through March 2001--Continued								
71846	NITR. NH4 AS NH4 MG/L AS NH4	8	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	8	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	8	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	8	0.560	0.000	0.181	0.560	0.322	0.140	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	8	2.500	0.000	1.000	2.500	1.575	1.100	0.050	0.000
00620	NITROGEN NITRATE MG/L AS N	8	0.000	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	8	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	8	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	8	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	8	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	8	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	8	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	8	0.000	--	--	--	--	--	--	--
00650	PHOSPHATE TOTAL (MG/L AS PO4)	8	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	8	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	8	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	8	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	8	0.000	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	8	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	8	23.000	0.000	10.575	23.000	19.750	11.150	0.575	0.000
00690	CARBON INORG + O (MG/L AS C)	8	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	8	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	8	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	8	0.000	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	6	210.000	70.000	131.667	210.000	180.000	125.000	85.000	70.000
71885	IRON UG/L AS FE	4	30.000	20.000	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	2	0.000	--	--	--	--	--	--	--
01056	MANGANESE DISSOL (UG/L AS MN)	2	140.000	110.000	--	--	--	--	--	--
01055	MANGANESE TOTAL (UG/L AS MN)	1	210.000	--	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	8	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	8	0.000	--	--	--	--	--	--	--

Supplement 14. Statistical summary of water-quality data for the Sheyenne River below Baldhill Dam, N. Dak., gaging station 05058000, June 1959 through July 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, June 1959 through July 2001							
00065	GAGE HEIGHT (FEET)	1	24.800	--	--	--	--	--	--	--
00060	DISCHARGE CFS	82	3050.000	0.700	244.244	1693.499	177.750	52.000	15.000	10.000
00061	DISCHARGE, INST. CFS	286	5510.000	0.050	400.513	2598.498	229.000	76.000	21.000	8.435
00310	BOD 5-DAY AT 20 (MG/L)	30	4.100	0.200	1.807	4.100	2.325	1.500	1.100	0.420
00080	COLOR PLATINUM-COBAL	37	55.000	8.000	20.892	41.500	25.000	20.000	15.000	9.800
00540	RESIDUE FIXED (MG/L)	371	0.000	--	--	--	--	--	--	--
00530	RESIDUE TOTAL (MG/L)	10	32.000	--	*18.907	*32.000	*23.500	*19.500	*13.500	*8.074
70303	RESIDUE DIS TON/ T/AC-FT	371	602.000	0.000	2.839	0.804	0.480	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	371	3300.000	0.000	95.723	455.399	12.600	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	114	764.000	196.000	458.088	699.750	524.750	447.500	378.250	278.750
70301	DISSOLVED SOLIDS MG/L	371	741.000	0.000	136.639	569.800	352.000	0.000	0.000	0.000
00076	TURBIDITY (NTU)	30	51.000	1.400	5.357	40.550	4.000	2.600	2.000	1.455
61028	TURBIDITY, FIELD (NTU)	1	20.000	--	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	19	741.000	597.000	722.737	741.000	733.000	730.000	723.000	597.000
00300	OXYGEN DISSOLVED (MG/L)	41	714.000	6.000	27.988	14.540	12.600	11.000	9.550	7.300
00301	OXYGEN DIS. PERC % OF SATURATIO	371	8980.000	0.000	32.415	99.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	127	9.100	6.900	8.098	8.900	8.500	8.100	7.700	7.340
00403	PH, WH, LABORATO (STANDARD UNIT	35	8.700	6.900	8.074	8.620	8.400	8.100	7.900	6.980
90095	SPECIFIC CONDUCT MICROSIEMENS/C	42	1120.000	410.000	802.310	1098.500	929.250	764.000	695.000	564.750
00095	SPECIFIC CONDUCT US/CM @ 25C	366	1320.000	285.000	758.495	1110.000	890.500	742.500	620.000	463.150
00020	AIR TEMPERATURE DEGREES C	189	36.000	-30.000	9.952	29.000	20.000	8.000	1.500	-8.000
00010	WATER TEMPERATUR (DEGREES C)	336	26.200	0.000	10.074	23.575	18.925	7.250	3.000	1.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	371	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	371	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	371	28.000	0.000	0.558	0.000	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	371	1.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	371	380.000	0.000	72.011	294.000	190.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	114	76.000	22.000	48.070	69.000	54.250	47.000	40.000	33.750
00925	MAGNESIUM DISSOL (MG/L AS MG)	114	48.000	2.000	27.553	43.500	32.000	26.000	23.000	14.000
00935	POTASSIUM DISSOL (MG/L AS K)	114	16.000	1.800	10.113	14.000	11.000	9.800	8.975	7.925
00931	SODIUM ADSORPTIO (RATIO)	371	3.000	0.000	0.571	2.000	2.000	0.000	0.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	18	97.000	35.000	67.222	97.000	79.250	69.000	53.250	35.000
00930	SODIUM DISSOLVED (MG/L AS NA)	114	120.000	20.000	64.596	100.000	77.000	65.000	51.000	31.750
00932	SODIUM, PERCENT PERCENT	371	49.000	0.000	11.167	39.400	33.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	371	0.000	--	--	--	--	--	--	--

Supplement 14. Statistical summary of water-quality data for the Sheyenne River below Baldhill Dam, N. Dak., gaging station 05058000, June 1959 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, June 1959 through Jnly 2001--Continued							
90410	ANC, TIT. 4.5, L MG/L AS CACO3	53	382.000	130.000	262.000	380.000	312.000	251.000	225.000	139.400
00418	ALKALINITY,DIS,F (MG/L AS CACO3	10	364.000	138.000	238.700	364.000	326.000	220.000	165.000	138.000
39086	ALKALINITY,DIS,I (MG/L AS CACO3	10	371.000	139.000	240.300	371.000	330.000	219.000	165.000	139.000
00410	ANC, FET, FIELD (MG/L AS CACO3	72	340.000	86.000	219.875	307.400	257.250	216.000	190.000	136.500
95440	BICARBONATE MG/L AS CACO3	20	430.000	260.000	323.500	429.500	385.000	290.000	280.000	260.000
00453	BICARBONATE,DIS, (MG/L AS HCO3)	10	453.000	170.000	293.200	453.000	402.750	267.000	201.250	170.000
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	52	410.000	170.000	273.462	380.500	315.000	270.000	232.500	180.000
95445	CARBONATE MG/L AS CO3	20	13.000	0.000	1.200	12.750	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	10	0.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	50	15.000	0.000	0.760	6.900	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	124	26.000	4.700	14.048	22.750	17.000	13.000	11.000	7.900
00950	FLUORIDE DISSOLV (MG/L AS F)	114	0.500	0.100	0.194	0.300	0.200	0.200	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	104	31.000	0.100	12.188	23.000	18.000	12.000	6.250	1.000
00945	SULFATE DISSOLVE (MG/L AS SO4)	114	240.000	48.000	123.728	210.000	150.000	120.000	93.750	69.750
00608	NITROGEN AMMONIA (MG/L AS N)	40	1.700	--	*0.306	*1.590	*0.353	*0.155	*0.040	*0.011
00623	NITRO AMN & ORG (MG/L AS N)	30	2.900	0.010	1.426	2.845	1.700	1.400	1.100	0.010
00624	NITROGEN SUSPEND (MG/L AS N)	28	2.500	--	*0.398	*1.825	*0.550	*0.200	*0.100	*0.038
00625	NITROGEN AMM+ORG (MG/L AS N)	39	3.600	0.730	1.637	3.000	1.900	1.500	1.200	0.870
71846	NITR. NH4 AS NH4 MG/L AS NH4	371	2.190	0.000	0.042	0.236	0.000	0.000	0.000	0.000
00610	NITROGEN AMMONIA (MG/L AS N)	30	1.700	--	*0.382	*1.645	*0.515	*0.220	*0.088	*0.011
71845	NITROGEN, NH4, T MG/L AS NH4	371	2.190	0.000	0.039	0.202	0.000	0.000	0.000	0.000
00602	NITROGEN DISSOLV (MG/L AS N)	371	3.000	0.000	0.129	1.340	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	371	2.200	0.000	0.036	0.174	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	371	5.900	0.000	0.210	1.566	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	371	0.630	0.000	0.012	0.054	0.000	0.000	0.000	0.000
71850	N, NITRATE TOTAL MG/L AS NO3	1	1.100	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	40	1.400	--	*0.252	*1.100	*0.330	*0.115	*0.048	*0.021
00630	NO2 + NO3 TOTAL (MG/L AS N)	366	0.800	0.000	0.015	0.100	0.000	0.000	0.000	0.000
71856	NITR. NO2 AS NO2 MG/L AS NO2	371	0.164	0.000	0.005	0.033	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	30	0.050	--	*0.019	*0.050	*0.030	*0.020	*0.010	*0.005
00615	NITROGEN,NITRITE MG/L AS N	30	0.140	--	*0.030	*0.096	*0.060	*0.020	*0.010	*0.003
00607	NITROGEN ORGANIC (MG/L AS N)	371	1.600	0.000	0.086	1.040	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	371	3.400	0.000	0.137	1.200	0.000	0.000	0.000	0.000
00600	NITROGEN TOTAL (MG/L AS N)	371	3.800	0.000	0.195	1.800	0.000	0.000	0.000	0.000
71887	NITROGEN, TOTAL MG/L AS NO3	371	17.000	0.000	0.683	7.580	0.000	0.000	0.000	0.000

Supplement 14. Statistical summary of water-quality data for the Sheyenne River below Baldhill Dam, N. Dak., gaging station 05058000, June 1959 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, June 1959 through July 2001--Continued								
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	371	0.860	0.000	0.049	0.430	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	371	1.600	0.000	0.035	0.382	0.000	0.000	0.000	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	30	0.288	0.040	0.155	0.273	0.210	0.159	0.098	0.040
00678	PHOSPHORUS HYDRO (MG/L AS P)	16	0.260	0.040	0.158	0.260	0.225	0.150	0.105	0.040
00677	PHOSPHORUS HYDRO (MG/L AS P)	18	0.320	0.020	0.136	0.320	0.195	0.135	0.065	0.020
00672	PHOSPHORUS HYDRO (MG/L AS P)	371	0.070	0.000	0.001	0.004	0.000	0.000	0.000	0.000
00669	PHOSPHORUS HYDRO (MG/L AS P)	371	0.160	0.000	0.002	0.000	0.000	0.000	0.000	0.000
00673	PHOSPHORUS ORG. (MG/L AS P)	371	0.100	0.000	0.001	0.004	0.000	0.000	0.000	0.000
00670	PHOSPHORUS ORG.T (MG/L AS P)	371	0.110	0.000	0.001	0.000	0.000	0.000	0.000	0.000
00671	PHOSPHORUS ORTHO (MG/L AS P)	46	0.280	0.007	0.124	0.263	0.180	0.125	0.068	0.017
70507	PHOS ORTHO TOT A MG/L AS P	30	0.510	0.020	0.138	0.389	0.162	0.140	0.080	0.025
00665	PHOSPHORUS TOTAL (MG/L AS P)	40	0.340	0.050	0.184	0.300	0.228	0.180	0.132	0.071
71886	PHOSPHORUS TOT P MG/L AS PO4	29	0.920	0.210	0.549	0.905	0.655	0.550	0.430	0.260
00621	NITROGEN NITRATE (MG/KG AS N)	371	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	371	36.000	0.000	2.077	13.400	1.400	0.000	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	28	28.000	6.800	14.175	24.850	16.000	14.000	11.000	8.060
00689	CARBON ORGANIC P (MG/L AS C)	26	3.900	0.100	0.604	3.060	0.600	0.400	0.200	0.100
00690	CARBON INORG + O (MG/L AS C)	371	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	371	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	371	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	371	0.000	--	--	--	--	--	--	--
31501	TOT COLI,MENDO M COLS./100 ML	29	20000.000	1.000	1990.931	14000.000	2050.000	92.000	29.000	1.000
31625	COLIFORM FECAL 0 COLS./100 ML	29	93.000	--	*10.413	*84.000	*10.000	*1.000	*0.810	*0.069
31673	FECAL STREP,KF M COLS./100 ML	29	3100.000	--	*155.403	*1870.000	*49.500	*15.000	*4.500	*0.304
01000	ARSENIC DISSOLVE (UG/L AS AS)	33	10.000	1.000	4.485	8.600	5.000	4.000	4.000	1.000
01020	BORON DISSOLVED (UG/L AS B)	104	310.000	20.000	141.635	227.500	170.000	140.000	110.000	47.500
71885	IRON UG/L AS FE	24	180.000	0.000	46.667	160.000	67.500	35.000	20.000	2.500
01046	IRON DISSOLVED (UG/L AS FE)	76	760.000	--	*39.642	*141.500	*40.000	*20.000	*10.000	*3.124
01044	IRON SUSPENDED (UG/L AS FE)	25	210.000	--	*95.923	*195.000	*130.000	*90.000	*60.000	*32.898
01045	IRON TOTAL (UG/L AS FE)	30	290.000	20.000	109.000	235.000	142.500	105.000	70.000	20.000
01049	LEAD DISSOLVED (UG/L AS PB)	32	2.000	--	*0.633	*1.350	*0.787	*0.554	*0.388	*0.232
01130	LITHIUM DISSOLVE (UG/L AS LI)	33	95.000	20.000	55.515	87.300	62.500	60.000	46.000	27.000
01056	MANGANESE DISSOL (UG/L AS MN)	76	2100.000	8.000	439.855	1830.000	585.000	225.000	86.250	20.000
01054	MANGANESE SUSPEN (UG/L AS MN)	29	210.000	--	*71.147	*200.000	*100.000	*60.000	*20.000	*8.751
01055	MANGANESE TOTAL (UG/L AS MN)	43	2100.000	10.000	515.116	1960.000	740.000	280.000	140.000	46.000

Supplement 14. Statistical summary of water-quality data for the Sheyenne River below Baldhill Dam, N. Dak., gaging station 05058000, June 1959 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, June 1959 through Jnly 2001--Continued							
71890	MERCURY DISSOLVE UG/L AS HG	33	0.600	--	*0.159	*0.600	*0.200	*0.100	*0.053	*0.022
71900	MERCURY, TOT.REC UG/L AS HG	1	0.100	--	--	--	--	--	--	--
01060	MOLYBDENUM DISSO (UG/L AS MO)	32	5.000	--	*1.138	*3.700	*1.000	*1.000	*0.520	*0.256
01145	SELENIUM DISSOLV (UG/L AS SE)	33	2.000	--	*0.684	*1.300	*0.909	*0.618	*0.456	*0.292
01080	STRONTIUM DISSOL (UG/L AS SR)	33	500.000	170.000	326.364	465.000	385.000	320.000	280.000	177.000
07060	IRON 59 DISSOLVE (PCI/L)	2	3.000	1.000	--	--	--	--	--	--
82068	POTSSSIUM 40 DIS (PCI/L AS K40)	5	7.500	6.900	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	371	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	371	0.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 15. Statistical summary of water-quality data for the Sheyenne River at Valley City, N. Dak., gaging station 05058500, November 1971 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, November 1971 through April 2001									
00060	DISCHARGE CFS	25	1020.000	8.800	138.192	940.800	154.500	59.000	18.500	10.660
00061	DISCHARGE, INST. CFS	71	5200.000	11.000	972.577	4490.000	1420.000	171.000	46.000	13.000
00540	RESIDUE FIXED (MG/L)	98	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	98	471.000	0.000	8.922	0.940	0.490	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	98	3670.000	0.000	267.480	2000.002	13.775	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	28	734.000	278.000	486.321	716.000	573.250	483.500	390.750	282.050
70301	DISSOLVED SOLIDS MG/L	98	687.000	0.000	132.684	628.550	338.250	0.000	0.000	0.000
00025	AIR PRESSURE (MM OF HG)	1	731.000	--	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	1	7.300	--	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	98	85.000	0.000	0.867	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	31	8.700	7.300	8.045	8.640	8.300	8.000	7.800	7.480
00403	PH, WH, LABORATO (STANDARD UNIT	11	8.500	6.700	7.873	8.500	8.200	8.000	7.700	6.700
00094	FIELD CONDUCTIVI US/CM @ 25C	9	1000.000	636.000	802.333	1000.000	917.000	791.000	691.500	636.000
90095	SPECIFIC CONDUCT MICROSIEMENS/C	8	1030.000	390.000	700.375	1030.000	939.750	683.500	454.750	390.000
00095	SPECIFIC CONDUCT US/CM @ 25C	96	1300.000	235.000	722.688	1052.000	830.000	712.500	610.000	388.250
00020	AIR TEMPERATURE DEGREES C	42	30.500	-10.000	8.655	30.350	15.500	7.000	2.000	-6.000
00010	WATER TEMPERATUR (DEGREES C)	96	26.000	0.000	8.411	23.575	16.375	4.250	1.625	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	98	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	98	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	98	32.000	0.000	1.184	12.350	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	98	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	98	390.000	0.000	71.837	312.500	190.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	28	79.000	30.000	51.000	78.100	56.750	50.000	42.250	32.250
00925	MAGNESIUM DISSOL (MG/L AS MG)	28	48.000	16.000	30.143	46.650	36.000	29.000	23.750	16.000
00935	POTASSIUM DISSOL (MG/L AS K)	28	15.000	6.400	10.064	14.100	12.000	9.950	8.225	6.445
00931	SODIUM ADSORPTIO (RATIO)	98	2.000	0.000	0.518	2.000	1.000	0.000	0.000	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	28	100.000	24.000	64.071	100.000	77.250	63.500	50.500	24.900
00932	SODIUM, PERCENT PERCENT	98	42.000	0.000	9.755	38.050	29.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	98	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	19	391.000	120.000	245.789	391.000	308.000	250.000	210.000	120.000
00410	ANC, FET, FIELD (MG/L AS CACO3	10	260.000	146.000	217.400	260.000	252.750	216.000	193.000	146.000
95440	BICARBONATE MG/L AS CACO3	11	390.000	260.000	318.182	390.000	340.000	320.000	270.000	260.000
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	10	320.000	180.000	266.000	320.000	310.000	265.000	235.000	180.000
95445	CARBONATE MG/L AS CO3	11	11.000	0.000	1.000	11.000	0.000	0.000	0.000	0.000
00445	ANC CARB FET FIE (MG/L AS CO3)	10	0.000	--	--	--	--	--	--	--

Supplement 15. Statistical summary of water-quality data for the Sheyenne River at Valley City, N. Dak., gaging station 05058500, November 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, November 1971 through April 2001--Continued									
00940	CHLORIDE DISSOLV (MG/L AS CL)	28	24.000	5.100	15.411	22.650	19.750	15.000	12.000	5.820
00950	FLUORIDE DISSOLV (MG/L AS F)	28	0.900	0.100	0.200	0.675	0.200	0.200	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	21	25.000	3.800	12.410	24.600	16.000	13.000	8.650	3.830
00945	SULFATE DISSOLVE (MG/L AS SO4)	28	260.000	81.000	141.357	242.000	167.500	130.000	120.000	83.250
71846	NITR. NH4 AS NH4 MG/L AS NH4	98	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	98	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	98	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	98	1.000	0.000	0.053	0.540	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	98	4.500	0.000	0.276	2.405	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	98	0.000	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	98	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	98	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	98	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	98	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	98	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	98	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	98	1.200	0.000	0.055	0.491	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	98	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	98	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	98	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	98	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	98	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	6	0.390	0.010	0.206	0.390	0.310	0.215	0.092	0.010
00621	NITROGEN NITRATE (MG/KG AS N)	98	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	98	8.500	0.000	1.249	6.535	1.675	0.000	0.000	0.000
00690	CARBON INORG + O (MG/L AS C)	98	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	98	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	98	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	98	0.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	18	9.000	1.000	3.444	9.000	5.000	3.000	2.000	1.000
01020	BORON DISSOLVED (UG/L AS B)	21	290.000	--	*153.617	*287.000	*205.000	*150.000	*95.000	*63.172
01046	IRON DISSOLVED (UG/L AS FE)	28	780.000	--	*90.891	*613.500	*87.500	*40.000	*10.000	*2.413
01049	LEAD DISSOLVED (UG/L AS PB)	18	--	--	--	--	--	--	--	--
01130	LITHIUM DISSOLVE (UG/L AS LI)	18	81.000	20.000	49.167	81.000	70.000	50.000	30.000	20.000
01056	MANGANESE DISSOL (UG/L AS MN)	28	1150.000	--	*323.384	*979.000	*442.500	*220.000	*152.500	*51.678

Supplement 15. Statistical summary of water-quality data for the Sheyenne River at Valley City, N. Dak., gaging station 05058500, November 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, November 1971 through April 2001--Continued							
71890	MERCURY DISSOLVE UG/L AS HG	18	0.800	--	*0.195	*0.800	*0.300	*0.100	*0.044	*0.014
01060	MOLYBDENUM DISSO (UG/L AS MO)	18	3.000	--	*1.228	*3.000	*2.000	*0.924	*0.551	*0.264
01145	SELENIUM DISSOLV (UG/L AS SE)	18	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	18	460.000	110.000	295.556	460.000	390.000	305.000	202.500	110.000
07060	IRON 59 DISSOLVE (PCI/L)	2	3.000	2.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	98	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	98	0.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 16. Statistical summary of water-quality data for the Sheyenne River at Lisbon, N. Dak., gaging station 05058700, August 1956 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptiva statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, August 1956 through April 2001							
00065	GAGE HEIGHT (FEET)	10	9.260	2.160	3.472	9.260	3.430	2.780	2.527	2.160
00060	DISCHARGE CFS	441	4270.000	3.500	235.936	1119.000	201.000	63.000	27.000	12.000
00061	DISCHARGE, INST. CFS	321	5230.000	1.000	638.548	3609.000	526.500	130.000	37.000	13.000
00080	COLOR PLATINUM-COBAL	234	120.000	0.000	21.825	50.000	25.000	18.000	12.000	6.000
00540	RESIDUE FIXED (MG/L)	763	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	763	1.360	0.000	0.572	1.020	0.830	0.650	0.400	0.000
70302	DISSOLVED SOLIDS TONS/DAY	763	4240.000	0.000	223.358	995.200	196.000	69.700	12.900	0.000
70300	RESIDUE DIS 180C MG/L	591	1000.000	185.000	544.680	780.400	644.000	538.000	448.000	322.000
70301	DISSOLVED SOLIDS MG/L	763	1040.000	0.000	223.900	678.600	489.000	0.000	0.000	0.000
00025	AIR PRESSURE (MM OF HG)	58	785.000	715.000	737.345	770.000	740.000	735.000	730.000	723.800
00300	OXYGEN DISSOLVED (MG/L)	57	14.700	6.000	10.144	14.040	12.000	10.400	8.150	6.190
00301	OXYGEN DIS. PERC % OF SATURATIO	763	113.000	0.000	6.439	85.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	601	9.000	6.700	7.826	8.390	8.100	7.800	7.600	7.300
00403	PH, WH, LABORATO (STANDARD UNIT	90	8.700	6.600	7.983	8.400	8.200	8.000	7.900	7.355
90095	SPECIFIC CONDUCT MICROSIEMENS/C	97	1330.000	410.000	847.742	1180.000	982.500	841.000	719.500	538.600
00095	SPECIFIC CONDUCT US/CM @ 25C	755	5220.000	110.000	837.106	1190.000	988.000	831.000	683.000	454.000
00020	AIR TEMPERATURE DEGREES C	213	33.000	-22.200	10.415	28.000	21.000	10.500	2.000	-10.000
00010	WATER TEMPERATUR (DEGREES C)	391	225.000	-0.500	10.354	25.000	19.000	7.000	1.000	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	763	130.000	0.000	1.720	0.000	0.000	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	763	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	763	210.000	0.000	30.384	100.000	52.000	17.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	763	79.000	0.000	0.444	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	763	530.000	0.000	217.798	380.000	300.000	250.000	180.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	359	130.000	30.000	60.549	85.000	69.000	59.000	51.000	40.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	359	53.000	8.600	29.492	43.000	34.000	29.000	25.000	16.000
00935	POTASSIUM DISSOL (MG/L AS K)	375	22.000	4.900	10.894	14.000	12.000	11.000	9.700	7.800
00931	SODIUM ADSORPTIO (RATIO)	763	27.000	0.000	1.578	3.000	2.000	2.000	1.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	16	150.000	55.000	88.375	150.000	107.500	89.500	62.500	55.000
00930	SODIUM DISSOLVED (MG/L AS NA)	607	560.000	13.000	75.330	115.000	91.000	76.000	59.000	34.000
00932	SODIUM, PERCENT PERCENT	763	81.000	0.000	28.512	41.000	38.000	35.000	28.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	763	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	96	543.000	127.000	255.677	390.000	289.750	250.000	220.000	158.400
95410	ANC, TIT 4.5, LA MG/L AS CACO3	1	340.000	--	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	24	367.000	139.000	247.917	364.750	291.500	256.000	204.250	139.250
00410	ANC, FET, FIELD (MG/L AS CACO3	441	376.000	22.000	226.136	319.700	258.500	226.000	190.500	146.200

Supplement 16. Statistical summary of water-quality data for the Sheyenne River at Lisbon, N. Dak., gaging station 05058700, August 1956 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, August 1956 through April 2001--Continued								
95440	BICARBONATE MG/L AS CACO3	12	330.000	160.000	270.000	330.000	315.000	285.000	227.500	160.000
00453	BICARBONATE,DIS, (MG/L AS HCO3)	24	448.000	169.000	293.792	445.000	328.500	300.500	227.750	169.500
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	483	460.000	100.000	278.219	380.000	320.000	280.000	240.000	182.000
95445	CARBONATE MG/L AS CO3	12	18.000	0.000	1.500	18.000	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	24	27.000	0.000	5.000	25.250	11.750	0.000	0.000	0.000
00445	ANC CARB FET FIE (MG/L AS CO3)	407	30.000	0.000	0.182	0.000	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	326	110.000	8.000	30.027	58.650	38.000	26.000	20.000	10.700
00950	FLUORIDE DISSOLV (MG/L AS F)	326	0.900	0.100	0.264	0.400	0.300	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	317	28.000	0.800	12.663	20.000	16.500	13.000	9.050	3.890
00945	SULFATE DISSOLVE (MG/L AS SO4)	540	447.000	39.000	162.904	264.750	200.000	154.500	127.000	77.050
00608	NITROGEN AMMONIA (MG/L AS N)	25	0.300	0.010	0.106	0.294	0.190	0.060	0.040	0.011
00623	NITRO AMN & ORG (MG/L AS N)	26	1.900	0.200	0.854	1.690	1.000	0.800	0.700	0.340
00625	NITROGEN AMM+ORG (MG/L AS N)	26	3.100	0.500	1.142	2.645	1.200	1.000	0.900	0.535
71846	NITR. NH4 AS NH4 MG/L AS NH4	763	0.390	0.000	0.004	0.000	0.000	0.000	0.000	0.000
71845	NITROGEN, NH4, T MG/L AS NH4	763	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	763	2.500	0.000	0.035	0.000	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	763	1.500	0.000	0.023	0.010	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	763	8.600	0.000	0.188	1.420	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	763	0.000	--	--	--	--	--	--	--
71850	N, NITRATE TOTAL MG/L AS NO3	54	7.900	0.000	2.206	6.750	3.350	1.550	0.475	0.157
00631	NO2 + NO3 DISSOL (MG/L AS N)	170	1.500	--	*0.364	*1.200	*0.620	*0.220	*0.050	*0.010
00630	NO2 + NO3 TOTAL (MG/L AS N)	763	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	763	0.526	0.000	0.002	0.000	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	38	0.160	--	*0.016	*0.055	*0.020	*0.007	*0.003	*0.001
00607	NITROGEN ORGANIC (MG/L AS N)	763	1.700	0.000	0.024	0.000	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	763	3.000	0.000	0.033	0.000	0.000	0.000	0.000	0.000
00600	NITROGEN TOTAL (MG/L AS N)	763	3.500	0.000	0.042	0.000	0.000	0.000	0.000	0.000
71887	NITROGEN, TOTAL MG/L AS NO3	763	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	763	1.040	0.000	0.016	0.000	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	763	0.760	0.000	0.003	0.000	0.000	0.000	0.000	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	182	0.490	0.010	0.129	0.349	0.170	0.100	0.060	0.020
00672	PHOSPHORUS HYDRO (MG/L AS P)	763	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	763	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	763	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	763	0.000	--	--	--	--	--	--	--

Supplement 16. Statistical summary of water-quality data for the Sheyenne River at Lisbon, N. Dak., gaging station 05058700, August 1956 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, August 1956 through April 2001--Continued							
00671	PHOSPHORUS ORTHO (MG/L AS P)	25	0.340	0.030	0.139	0.340	0.195	0.120	0.050	0.030
00665	PHOSPHORUS TOTAL (MG/L AS P)	26	1.200	0.060	0.268	0.990	0.315	0.230	0.108	0.064
00621	NITROGEN NITRATE (MG/KG AS N)	763	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	763	66.000	0.000	6.648	20.800	9.300	5.100	1.900	0.000
00681	CARBON ORGANIC D (MG/L AS C)	9	12.000	8.600	10.233	12.000	11.000	9.900	9.350	8.600
00689	CARBON ORGANIC P (MG/L AS C)	9	2.800	0.600	1.500	2.800	2.250	1.500	0.800	0.600
00690	CARBON INORG + O (MG/L AS C)	763	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	763	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	763	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	763	0.000	--	--	--	--	--	--	--
01106	ALUMINUM DISSOLV (UG/L AS AL)	18	279.000	--	*67.580	*279.000	*100.000	*26.894	*18.025	*10.000
01105	ALUMINUM TOTAL UG/L AS AL	2	--	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	44	20.000	--	*4.224	*12.250	*6.000	*3.000	*2.000	*0.697
01005	BARIUM DISSOLVED (UG/L AS BA)	22	--	--	--	--	--	--	--	--
01010	BERYLLIUM DISSOL (UG/L AS BE)	15	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	294	400.000	20.000	197.269	320.000	240.000	200.000	150.000	80.000
01025	CADMIUM DISSOLVE (UG/L AS CD)	19	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	22	--	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	20	2.000	--	*2.000	*2.000	*2.000	*2.000	*2.000	*2.000
01040	COPPER DISSOLVED (UG/L AS CU)	20	38.000	--	*9.695	*37.700	*12.000	*4.500	*3.000	*0.767
00720	CYANIDE TOTAL (MG/L AS CN)	14	--	--	--	--	--	--	--	--
71885	IRON UG/L AS FE	72	480.000	10.000	100.139	340.500	117.500	70.000	50.000	10.000
01046	IRON DISSOLVED (UG/L AS FE)	73	1100.000	3.000	63.466	200.000	60.000	30.000	10.000	10.000
01045	IRON TOTAL (UG/L AS FE)	58	90.000	--	*24.073	*90.000	*30.000	*20.000	*10.000	*4.387
01049	LEAD DISSOLVED (UG/L AS PB)	40	40.000	--	*2.380	*16.650	*1.000	*0.185	*0.035	*0.004
01130	LITHIUM DISSOLVE (UG/L AS LI)	43	120.000	9.000	56.884	90.000	67.000	55.000	50.000	22.000
01056	MANGANESE DISSOL (UG/L AS MN)	72	880.000	10.000	211.694	587.000	237.500	155.000	80.000	30.000
01055	MANGANESE TOTAL (UG/L AS MN)	18	440.000	20.000	230.556	440.000	332.500	235.000	100.000	20.000
71890	MERCURY DISSOLVE UG/L AS HG	39	1.600	--	*0.152	*0.600	*0.169	*0.066	*0.026	*0.008
01060	MOLYBDENUM DISSO (UG/L AS MO)	41	8.000	--	*2.125	*7.700	*3.000	*1.473	*0.754	*0.302
01065	NICKEL DISSOLVED (UG/L AS NI)	20	23.000	--	*7.900	*22.900	*8.500	*6.000	*3.500	*1.313
01145	SELENIUM DISSOLV (UG/L AS SE)	41	14.000	--	*1.611	*7.900	*1.000	*0.493	*0.173	*0.035
01075	SILVER DISSOLVED (UG/L AS AG)	13	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	42	520.000	200.000	365.000	510.000	432.500	360.000	297.500	203.000
01085	VANADIUM DISSOLV (UG/L AS V)	17	4.000	--	*1.644	*4.000	*2.000	*1.000	*1.000	*0.424

Supplement 16. Statistical summary of water-quality data for the Sheyenne River at Lisbon, N. Dak., gaging station 05058700, August 1956 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, August 1956 through April 2001--Continued							
01090	ZINC DISSOLVED (UG/L AS ZN)	22	140.000	--	*22.626	*128.000	*20.000	*16.433	*8.379	*4.378
82068	POTSSSIUM 40 DIS (PCI/L AS K40)	5	9.000	6.700	--	--	--	--	--	--
70338	SED-SUSP-FALL-D- %	11	76.000	59.000	66.909	76.000	72.000	64.000	62.000	59.000
70340	SED-SUSP-FALL-D- %	11	98.000	65.000	89.364	98.000	94.000	90.000	89.000	65.000
70342	SED-SUSP-FALL-D- %	5	100.000	100.000	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	25	100.000	24.000	91.400	100.000	100.000	99.000	96.500	33.900
70332	SED-SUSP-SIEVE-. %	5	100.000	75.000	--	--	--	--	--	--
70333	SED-SUSP-SIEVE-. %	3	99.000	86.000	--	--	--	--	--	--
70334	SED-SUSP-SIEVE-. %	3	100.000	95.000	--	--	--	--	--	--
70336	SED-SUSP-SIEVE-2 %	1	100.000	--	--	--	--	--	--	--
70335	SED-SUSP-SIEVE-1 %	1	99.000	--	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	763	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	42	730.000	8.000	163.286	575.100	198.500	102.000	32.250	9.000
80155	DISCHARGE,SUSP.S T/DAY	763	5300.000	0.000	41.327	2.360	0.000	0.000	0.000	0.000
80164	SED-BED-SIEVE-.0 %	4	14.000	1.000	--	--	--	--	--	--
80165	SED-BED-SIEVE-.1 %	4	39.000	5.000	--	--	--	--	--	--
80166	SED-BED-SIEVE-.2 %	4	84.000	17.000	--	--	--	--	--	--
80167	SED-BED-SIEVE-.5 %	4	96.000	26.000	--	--	--	--	--	--
80168	SED-BED-SIEVE-1. %	4	98.000	29.000	--	--	--	--	--	--
80169	SED-BED-SIEVE-2. %	4	100.000	44.000	--	--	--	--	--	--
80170	SED-BED-SIEVE-4. %	3	99.000	70.000	--	--	--	--	--	--
80171	SED-BED-SIEVE-8. %	3	100.000	76.000	--	--	--	--	--	--
80172	SED-BED-SIEVE-16 %	2	100.000	100.000	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 17. Statistical summary of water-quality data for the Sheyenne River near Kindred, N. Dak., gaging station 05059000, October 1971 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001							
00065	GAGE HEIGHT (FEET)	6	3.930	3.460	3.687	3.930	3.855	3.685	3.513	3.460
00060	DISCHARGE CFS	60	3230.000	29.000	429.800	1670.500	529.250	188.000	71.250	35.100
00061	DISCHARGE, INST. CFS	362	5600.000	18.000	580.619	3379.001	593.250	143.000	58.000	28.000
00310	BOD 5-DAY AT 20 (MG/L)	86	8.400	0.500	2.878	5.425	3.900	2.850	1.700	0.935
00080	COLOR PLATINUM-COBAL	96	200.000	4.000	22.938	55.000	29.500	12.500	9.000	7.000
70303	RESIDUE DIS TON/ T/AC-FT	227	1.130	0.270	0.722	0.940	0.820	0.730	0.647	0.424
70302	DISSOLVED SOLIDS TONS/DAY	225	3850.000	25.500	426.287	2114.000	434.000	166.000	80.150	40.150
70300	RESIDUE DIS 180C MG/L	226	832.000	200.000	531.336	694.650	600.000	539.000	478.250	310.150
70301	DISSOLVED SOLIDS MG/L	223	822.000	189.000	524.677	698.000	592.000	533.000	480.000	318.400
00070	TURBIDITY (JCU)	74	900.000	6.000	49.878	190.000	35.000	25.000	14.750	7.000
00076	TURBIDITY (NTU)	106	240.000	1.100	22.732	81.500	28.250	12.000	4.475	1.870
00025	AIR PRESSURE (MM OF HG)	102	780.000	700.000	745.167	769.100	757.000	741.500	736.000	730.000
00300	OXYGEN DISSOLVED (MG/L)	203	16.100	4.000	8.945	13.240	10.800	8.500	7.000	5.240
00301	OXYGEN DIS. PERC % OF SATURATIO	175	134.000	8.000	82.059	107.000	94.000	84.900	74.000	44.800
00400	PH, WH, FIELD (STANDARD UNIT	242	22.000	6.900	8.173	8.500	8.300	8.200	7.975	7.515
00403	PH, WH, LABORATO (STANDARD UNIT	95	8.500	7.400	8.021	8.400	8.200	8.000	7.900	7.580
00094	FIELD CONDUCTIVI US/CM @ 25C	1	778.000	--	--	--	--	--	--	--
90095	SPECIFIC CONDUCT MICROSIEMENS/C	103	1250.000	478.000	853.505	1098.000	946.000	852.000	767.000	578.600
00095	SPECIFIC CONDUCT US/CM @ 25C	401	1420.000	180.000	805.915	1100.000	929.500	820.000	700.000	444.100
00020	AIR TEMPERATURE DEGREES C	220	37.000	-25.000	10.156	29.000	21.875	11.000	1.000	-14.925
00010	WATER TEMPERATUR (DEGREES C)	410	28.000	-1.000	10.462	25.000	19.500	9.000	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	46	179.000	13.000	64.783	132.800	87.250	58.000	38.500	16.050
00902	NONCARBONATE HAR (MG/L AS CACO3	117	150.000	0.000	58.718	93.700	75.000	59.000	40.500	18.900
00903	NONCARBONATE HAR (MG/L AS CACO3	13	150.000	0.000	23.385	150.000	27.000	14.000	0.500	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	223	498.000	120.000	300.605	395.600	339.000	310.000	270.000	180.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	223	110.000	28.000	72.341	92.800	83.000	75.000	64.000	42.400
00925	MAGNESIUM DISSOL (MG/L AS MG)	223	54.000	11.000	29.108	41.000	33.000	29.000	26.000	16.000
00935	POTASSIUM DISSOL (MG/L AS K)	222	15.000	3.800	9.041	12.000	10.000	8.900	8.000	6.615
00931	SODIUM ADSORPTIO (RATIO)	223	41.000	0.200	1.791	2.036	2.000	1.730	1.190	1.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	25	96.000	18.000	57.120	95.100	72.000	58.000	38.000	20.100
00930	SODIUM DISSOLVED (MG/L AS NA)	223	110.000	9.500	63.818	91.000	77.000	64.000	54.000	30.200
00932	SODIUM, PERCENT PERCENT	223	41.000	9.000	30.639	37.000	33.000	30.800	28.000	24.840
99430	ANC, CARB, IT, F MG/L	7	447.000	2.800	255.971	447.000	309.000	272.000	218.000	2.800
90410	ANC, TIT. 4.5, L MG/L AS CACO3	105	385.000	137.000	262.800	340.700	290.000	267.000	237.500	156.100
95410	ANC, TIT 4.5, LA MG/L AS CACO3	1	200.000	--	--	--	--	--	--	--

Supplement 17. Statistical summary of water-quality data for the Sheyenne River near Kindred, N. Dak., gaging station 05059000, October 1971 through April 2001--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, October 1971 through April 2001--Continued								
00418	ALKALINITY,DIS,F (MG/L AS CACO3	21	357.000	177.000	269.952	355.800	292.500	268.000	251.500	177.500
39086	ALKALINITY,DIS,I (MG/L AS CACO3	47	358.000	140.000	254.936	337.600	289.000	262.000	228.000	144.000
00410	ANC, FET, FIELD (MG/L AS CACO3	145	340.000	83.000	237.076	311.700	270.000	250.000	210.000	120.000
00417	ANC, FET, LAB (MG/L AS CACO3	3	306.000	263.000	--	--	--	--	--	--
00419	ANC, IT, FIELD (MG/L AS CACO3	13	358.000	201.000	263.462	358.000	283.500	268.000	227.000	201.000
99440	BICARBONATE MG/L AS HCO3	6	545.000	266.000	365.333	545.000	419.000	337.500	313.250	266.000
00453	BICARBONATE,DIS, (MG/L AS HCO3)	47	436.000	171.000	303.191	411.600	343.000	319.000	276.000	176.000
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	88	410.000	110.000	291.932	380.000	330.000	310.000	260.000	163.500
00450	ANC BICARB IT FI (MG/L AS HCO3)	11	359.000	224.000	302.909	359.000	342.000	322.000	261.000	224.000
99445	CARBONATE MG/L AS CO3	6	0.000	--	--	--	--	--	--	--
00452	CARBONATE,DIS,IT (MG/L AS CO3)	47	48.000	0.000	3.979	16.400	7.000	0.000	0.000	0.000
00445	ANC CARB FET FIE (MG/L AS CO3)	86	11.000	0.000	0.233	0.000	0.000	0.000	0.000	0.000
00447	ANC CARB IT FIEL (MG/L AS CO3)	11	48.000	0.000	6.909	48.000	8.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	223	74.000	5.700	28.390	51.800	35.000	27.000	20.000	12.000
00950	FLUORIDE DISSOLV (MG/L AS F)	222	0.600	0.100	0.248	0.400	0.300	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	213	48.000	3.900	16.989	24.000	20.500	17.000	13.000	8.680
00945	SULFATE DISSOLVE (MG/L AS SO4)	223	310.000	50.000	154.619	230.000	170.000	150.000	130.000	95.400
00608	NITROGEN AMMONIA (MG/L AS N)	207	0.450	--	*0.085	*0.342	*0.140	*0.040	*0.010	*0.003
99894	NH3+ORG N DIS JI	1	1.100	--	--	--	--	--	--	--
99892	NH3+ORG N MOD JI	1	0.900	--	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	141	1.800	0.010	0.717	1.390	0.900	0.670	0.485	0.321
00624	NITROGEN SUSPEND (MG/L AS N)	107	6.000	0.000	0.536	1.500	0.710	0.400	0.130	0.000
00625	NITROGEN AMM+ORG (MG/L AS N)	207	11.000	0.140	1.224	2.300	1.300	1.000	0.790	0.508
71846	NITR. NH4 AS NH4 MG/L AS NH4	199	0.580	0.000	0.112	0.450	0.180	0.052	0.010	0.000
00610	NITROGEN AMMONIA (MG/L AS N)	149	0.800	--	*0.097	*0.415	*0.135	*0.040	*0.010	*0.004
71845	NITROGEN, NH4, T MG/L AS NH4	133	1.030	0.000	0.138	0.533	0.180	0.060	0.030	0.010
00602	NITROGEN DISSOLV (MG/L AS N)	126	4.700	0.200	1.107	2.259	1.485	1.100	0.540	0.354
00618	NITROGEN NITRATE (MG/L AS N)	131	3.450	0.000	0.374	0.962	0.610	0.250	0.010	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	131	15.300	0.000	1.653	4.240	2.700	1.100	0.040	0.000
00620	NITROGEN NITRATE MG/L AS N	95	11.000	0.000	0.385	0.900	0.600	0.040	0.000	0.000
00631	NO2 + NO3 DISSOL (MG/L AS N)	207	3.600	--	*0.294	*0.906	*0.510	*0.090	*0.020	*0.010
00630	NO2 + NO3 TOTAL (MG/L AS N)	123	1.000	--	*0.291	*0.900	*0.500	*0.122	*0.073	*0.024
71856	NITR. NO2 AS NO2 MG/L AS NO2	128	0.690	0.000	0.057	0.184	0.070	0.030	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	169	0.210	--	*0.015	*0.050	*0.020	*0.010	*0.004	*0.001
00615	NITROGEN,NITRITE MG/L AS N	104	0.100	--	*0.017	*0.047	*0.020	*0.010	*0.010	*0.003

Supplement 17. Statistical summary of water-quality data for the Sheyenne River near Kindred, N. Dak., gaging station 05059000, October 1971 through April 2001--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, October 1971 through April 2001--Continued								
00607	NITROGEN ORGANIC (MG/L AS N)	139	1.800	0.010	0.631	1.100	0.780	0.570	0.450	0.300
00605	NITROGEN ORGANIC (MG/L AS N)	199	10.700	0.000	1.131	2.110	1.290	0.970	0.720	0.430
00600	NITROGEN TOTAL (MG/L AS N)	165	11.800	0.150	1.648	3.184	1.920	1.390	1.100	0.666
71887	NITROGEN, TOTAL MG/L AS NO3	114	31.000	0.700	6.304	12.000	7.600	5.400	3.975	2.450
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	185	0.951	0.000	0.211	0.583	0.276	0.180	0.120	0.030
00650	PHOSPHATE TOTAL (MG/L AS PO4)	107	3.700	0.031	0.366	0.866	0.430	0.276	0.180	0.061
00666	PHOSPHORUS DISS. (MG/L AS P)	207	0.300	0.010	0.083	0.210	0.110	0.070	0.040	0.020
00678	PHOSPHORUS HYDRO (MG/L AS P)	87	1.100	0.010	0.158	0.400	0.160	0.120	0.090	0.030
00677	PHOSPHORUS HYDRO (MG/L AS P)	84	0.840	0.010	0.069	0.117	0.070	0.060	0.040	0.010
00672	PHOSPHORUS HYDRO (MG/L AS P)	84	0.780	0.000	0.027	0.065	0.020	0.010	0.000	0.000
00669	PHOSPHORUS HYDRO (MG/L AS P)	87	0.770	0.000	0.078	0.250	0.090	0.040	0.020	0.000
00673	PHOSPHORUS ORG. (MG/L AS P)	85	0.130	0.000	0.011	0.054	0.015	0.000	0.000	0.000
00670	PHOSPHORUS ORG.T (MG/L AS P)	89	0.390	--	*0.024	*0.105	*0.020	*0.006	*0.002	*0.000
00671	PHOSPHORUS ORTHO (MG/L AS P)	188	0.310	0.007	0.067	0.190	0.080	0.050	0.030	0.010
70507	PHOS ORTHO TOT A MG/L AS P	105	0.210	0.010	0.076	0.157	0.100	0.070	0.050	0.020
00665	PHOSPHORUS TOTAL (MG/L AS P)	208	1.800	0.020	0.206	0.426	0.248	0.170	0.120	0.060
71886	PHOSPHORUS TOT P MG/L AS PO4	49	1.400	0.090	0.620	1.250	0.785	0.610	0.385	0.210
99893	TOT P DISS MOD J	1	0.064	--	--	--	--	--	--	--
99891	TOT P, WH, MOD J	1	0.190	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	227	45.900	0.700	4.655	14.000	5.000	3.000	2.200	1.400
00681	CARBON ORGANIC D (MG/L AS C)	56	25.000	4.700	10.073	17.600	11.000	9.550	7.475	5.355
00689	CARBON ORGANIC P (MG/L AS C)	49	12.000	0.100	2.298	7.600	3.650	1.400	0.700	0.150
00680	CARBON ORGANIC T (MG/L AS C)	21	43.000	2.800	13.029	40.900	16.000	10.000	7.400	3.130
00572	BIOMASS, PERIPHY (G/SQ M)	10	7.640	0.000	2.381	7.640	4.173	1.430	0.200	0.000
00573	BIOMASS PERIPHYT (G/SQ M)	10	8.820	0.079	3.024	8.820	6.007	2.125	0.273	0.079
70950	BIO CHL RATIO PE UNITS	10	3920.000	0.000	1135.960	3920.000	2980.000	106.850	9.225	0.000
60050	PHYTO TYPE-I CELLS/ML	24	170000.000	130.000	32284.166	160000.000	50750.000	13000.000	3325.000	205.000
31501	TOT COLI,MENDO M COLS./100 ML	47	7600.000	10.000	960.660	4080.000	1200.000	420.000	160.000	35.400
31625	COLIFORM FECAL 0 COLS./100 ML	118	3500.000	1.000	209.847	930.002	160.000	60.500	21.500	3.000
31616	FECAL COLI,MFC M COLS./100 ML	3	200.000	5.000	--	--	--	--	--	--
31673	FECAL STREP,KF M COLS./100 ML	104	5200.000	7.000	472.548	2675.000	335.000	120.000	61.250	16.250
70957	CHL-A PR CH-FL M MG/M2	10	14.800	0.000	2.910	14.800	5.175	0.500	0.075	0.000
70958	CHL-B PR CH-FL M MG/M2	10	2.500	0.000	0.410	2.500	0.575	0.000	0.000	0.000
01106	ALUMINUM DISSOLV (UG/L AS AL)	45	80.000	--	*14.638	*30.000	*20.000	*10.000	*6.302	*2.929
01107	ALUMINUM SUSPEND (UG/L AS AL)	1	1700.000	--	--	--	--	--	--	--

Supplement 17. Statistical summary of water-quality data for the Sheyenne River near Kindred, N. Dak., gaging station 05059000, October 1971 through April 2001--Continued

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			North Dakota data, October 1971 through April 2001—Continued							
01105	ALUMINUM TOTAL UG/L AS AL	19	6700.000	--	*1333.685	*6700.000	*1700.000	*420.000	*120.000	*50.013
01000	ARSENIC DISSOLVE (UG/L AS AS)	66	12.000	1.000	4.742	10.000	5.000	4.000	3.000	2.000
01001	ARSENIC SUSPENDE (UG/L AS AS)	14	4.000	--	*1.755	*4.000	*2.000	*2.000	*1.000	*0.569
01002	ARSENIC TOTAL (UG/L AS AS)	32	14.000	3.000	6.406	12.700	7.000	5.500	4.000	3.650
01005	BARIUM DISSOLVED (UG/L AS BA)	68	300.000	--	*101.480	*205.500	*110.000	*92.500	*71.079	*48.898
01006	BARIUM SUSPENDED (UG/L AS BA)	21	300.000	0.000	50.952	290.000	100.000	0.000	0.000	0.000
01007	BARIUM TOTAL (UG/L AS BA)	31	600.000	--	*157.165	*480.000	*200.000	*100.000	*71.064	*34.337
01010	BERYLLIUM DISSOL (UG/L AS BE)	32	--	--	--	--	--	--	--	--
01012	BERYLLIUM TOTAL (UG/L AS BE)	20	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	31	20000.000	70.000	935.161	9559.993	220.000	170.000	110.000	76.000
01022	BORON TOTAL (UG/L AS B)	20	450.000	90.000	209.500	443.000	267.500	200.000	140.000	90.500
01025	CADMIUM DISSOLVE (UG/L AS CD)	50	27.000	--	*0.813	*2.000	*0.263	*0.058	*0.013	*0.001
01026	CADMIUM SUSPENDE (UG/L AS CD)	11	1.000	0.000	0.182	1.000	0.000	0.000	0.000	0.000
01027	CADMIUM TOTAL (UG/L AS CD)	26	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	45	10.000	--	*0.882	*10.000	*0.413	*0.083	*0.017	*0.002
01031	CHROMIUM SUSPEND (UG/L AS CR)	19	20.000	0.000	5.263	20.000	10.000	0.000	0.000	0.000
01034	CHROMIUM TOTAL (UG/L AS CR)	22	20.000	--	*9.900	*20.000	*13.762	*7.800	*4.991	*3.206
01035	COBALT DISSOLVED (UG/L AS CO)	62	--	--	--	--	--	--	--	--
01036	COBALT SUSPENDED (UG/L AS CO)	15	8.000	0.000	1.867	8.000	4.000	0.000	0.000	0.000
01037	COBALT TOTAL (UG/L AS CO)	28	8.000	--	*2.615	*7.550	*3.909	*2.000	*0.973	*0.411
01040	COPPER DISSOLVED (UG/L AS CU)	56	28.000	--	*3.631	*10.350	*4.000	*2.000	*2.000	*0.678
01041	COPPER SUSPENDED (UG/L AS CU)	23	25.000	0.000	6.130	22.800	9.000	5.000	3.000	0.000
01042	COPPER TOTAL (UG/L AS CU)	32	40.000	--	*11.019	*33.500	*12.818	*8.368	*6.000	*3.000
00723	CYANIDE DISSOLVE (MG/L AS CN)	1	0.000	--	--	--	--	--	--	--
00720	CYANIDE TOTAL (MG/L AS CN)	18	--	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	195	1400.000	--	*41.210	*114.000	*40.000	*20.000	*7.895	*2.591
01044	IRON SUSPENDED (UG/L AS FE)	44	11000.000	290.000	2307.045	10150.000	3025.000	1250.000	502.500	305.000
01045	IRON TOTAL (UG/L AS FE)	108	58000.000	10.000	2525.463	8965.007	2175.000	1200.000	592.500	309.000
01049	LEAD DISSOLVED (UG/L AS PB)	56	350.000	--	*7.358	*5.150	*2.000	*0.469	*0.136	*0.026
01050	LEAD SUSPENDED (UG/L AS PB)	14	17.000	0.000	5.214	17.000	7.250	4.000	1.750	0.000
01051	LEAD TOTAL (UG/L AS PB)	25	25.000	--	*6.801	*23.500	*9.000	*5.347	*1.619	*0.697
01130	LITHIUM DISSOLVE (UG/L AS LI)	54	70.000	20.000	52.333	68.500	59.250	52.500	48.750	31.500
01132	LITHIUM TOTAL (UG/L AS LI)	20	140.000	--	*52.310	*137.000	*67.500	*45.000	*32.500	*16.397
01056	MANGANESE DISSOL (UG/L AS MN)	195	500.000	2.000	98.005	312.000	130.000	70.000	28.000	6.800
01054	MANGANESE SUSPEN (UG/L AS MN)	97	3500.000	0.000	533.711	1539.999	735.000	430.000	140.000	20.000

Supplement 17. Statistical summary of water-quality data for the Sheyenne River near Kindred, N. Dak., gaging station 05059000, October 1971 through April 2001--Continued

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01055	MANGANESE TOTAL (UG/L AS MN)	107	3700.000	140.000	656.748	1839.999	812.000	520.000	280.000	154.000
71890	MERCURY DISSOLVE UG/L AS HG	66	--	--	--	--	--	--	--	--
71895	MERCURY SUSPENDE UG/L AS HG	19	30.000	0.000	2.642	30.000	4.000	0.100	0.000	0.000
71900	MERCURY, TOT.REC UG/L AS HG	32	40.000	--	*3.451	*30.250	*0.392	*0.100	*0.007	*0.000
01060	MOLYBDENUM DISSO (UG/L AS MO)	55	10.000	--	*0.973	*5.188	*1.000	*0.310	*0.112	*0.026
01062	MOLYBDENUM TOTAL (UG/L AS MO)	20	7.000	--	*2.791	*7.000	*4.000	*3.000	*1.000	*0.487
01065	NICKEL DISSOLVED (UG/L AS NI)	56	31.000	1.000	5.411	9.150	6.000	5.000	4.000	2.000
01066	NICKEL SUSPENDED (UG/L AS NI)	11	15.000	1.000	5.091	15.000	7.000	3.000	1.000	1.000
01067	NICKEL TOTAL (UG/L AS NI)	32	33.000	--	*13.090	*33.000	*19.500	*10.301	*6.000	*2.712
01145	SELENIUM DISSOLV (UG/L AS SE)	78	1.000	--	*1.000	*1.000	*1.000	*1.000	*1.000	*1.000
01146	SELENIUM SUSPEND (UG/L AS SE)	20	1.000	0.000	0.400	1.000	1.000	0.000	0.000	0.000
01147	SELENIUM TOTAL (UG/L AS SE)	32	1.000	--	*1.000	*1.000	*1.000	*1.000	*1.000	*1.000
01075	SILVER DISSOLVED (UG/L AS AG)	56	--	--	--	--	--	--	--	--
01076	SILVER SUSPENDED (UG/L AS AG)	20	1.000	0.000	0.050	0.950	0.000	0.000	0.000	0.000
01077	SILVER TOTAL (UG/L AS AG)	23	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	54	550.000	180.000	334.259	442.500	370.000	330.000	300.000	215.000
01082	STRONTIUM TOTAL (UG/L AS SR)	6	420.000	280.000	348.333	420.000	390.000	365.000	280.000	280.000
01085	VANADIUM DISSOLV (UG/L AS V)	44	--	--	--	--	--	--	--	--
01090	ZINC DISSOLVED (UG/L AS ZN)	56	100.000	--	*16.387	*74.500	*20.000	*8.500	*4.125	*1.220
01091	ZINC SUSPENDED (UG/L AS ZN)	22	160.000	0.000	30.000	155.500	32.500	20.000	0.000	0.000
01092	ZINC TOTAL (UG/L AS ZN)	29	260.000	--	*48.152	*230.000	*50.000	*30.000	*20.000	*8.200
49295	1-NAPHTHOL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39741	2,4,5-T BTM UG/KG	5	0.000	--	--	--	--	--	--	--
39742	2,4,5-T DISSOLVE UG/L	1	--	--	--	--	--	--	--	--
39740	2,4,5-T TOTAL(WA UG/L	4	0.000	--	--	--	--	--	--	--
39732	2,4-D DISSOLVED UG/L	1	--	--	--	--	--	--	--	--
39730	2,4-D TOTAL (WA UG/L	4	0.070	0.010	--	--	--	--	--	--
38746	2,4-DB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82660	26DIETHYLANILINE (UG/L)	1	--	--	--	--	--	--	--	--
49308	3HYDRXYCARBOFURA (UG/L)	1	--	--	--	--	--	--	--	--
49260	ACETOCHLOR FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49315	ACIFLUORFEN FLTR (UG/L)	1	--	--	--	--	--	--	--	--
46342	ALACHLOR, DISS, UG/L	1	--	--	--	--	--	--	--	--
49313	ALDICARB SULFONE (UG/L)	1	--	--	--	--	--	--	--	--
49314	ALDICARB SULFOXI (UG/L)	1	--	--	--	--	--	--	--	--

Supplement 17. Statistical summary of water-quality data for the Sheyenne River near Kindred, N. Dak., gaging station 05059000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constitaent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, October 1971 through April 2001--Continued								
49312	ALDICARB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39330	ALDRIN TOTAL (WA UG/L	5	0.000	--	--	--	--	--	--	--
34253	ALPHA BHC UG/L	1	--	--	--	--	--	--	--	--
39632	ATRAZINE, DISS, UG/L	1	0.007	--	--	--	--	--	--	--
99835	BDMC, SURROG, UN (PERCENT)	1	73.000	--	--	--	--	--	--	--
82673	BENFLURALIN FIL (UG/L)	1	--	--	--	--	--	--	--	--
38711	BENTAZON, FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04029	BROMACIL DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
49311	BROMOXYNIL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04028	BUTYLATE DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
49310	CARBARYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82680	CARBARYL FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
49309	CARBOFURAN FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82674	CARBOFURAN FIL. (UG/L)	1	--	--	--	--	--	--	--	--
39786	CARBOPHENOTHION UG/L	5	0.000	--	--	--	--	--	--	--
61188	CHLORAMBEN, METH (UG/L)	1	--	--	--	--	--	--	--	--
39350	CHLORDANE TOT(WA UG/L	5	0.000	--	--	--	--	--	--	--
49306	CHLOROTHALONIL F (UG/L)	1	--	--	--	--	--	--	--	--
38933	CHLORPYRIFOS, DI UG/L	1	--	--	--	--	--	--	--	--
49305	CLOPYRALID FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04041	CYANAZINE DISS R (UG/L)	1	--	--	--	--	--	--	--	--
49304	DACTHAL MONO-ACI (UG/L)	1	--	--	--	--	--	--	--	--
82682	DCPA FIL 0.7 REC (UG/L)	1	--	--	--	--	--	--	--	--
04040	DEETHYL ATRAZINE (UG/L)	1	0.002	--	--	--	--	--	--	--
39572	DIAZINON DISSOLV UG/L	1	--	--	--	--	--	--	--	--
39570	DIAZINON TOT (WA UG/L	5	0.000	--	--	--	--	--	--	--
38442	DICAMBA FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49303	DICHLOBENIL FLTR (UG/L)	1	--	--	--	--	--	--	--	--
49302	DICHLORPRO FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39381	DIELDRIN DISSOLV UG/L	1	--	--	--	--	--	--	--	--
39380	DIELDRIN TOT (WA UG/L	5	--	--	--	--	--	--	--	--
49301	DINOSEB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82677	DISULFOTON FIL. (UG/L)	1	--	--	--	--	--	--	--	--
49300	DIURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49299	DNOC FLTD (UG/L)	1	--	--	--	--	--	--	--	--

Supplement 17. Statistical summary of water-quality data for the Sheyenne River near Kindred, N. Dak., gaging station 05059000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, October 1971 through April 2001--Continued								
39388	ENDOSULFAN I TOT UG/L	5	0.000	--	--	--	--	--	--	--
39390	ENDRIN UNF REC (UG/L)	5	0.000	--	--	--	--	--	--	--
82668	EPTC FIL 0.7 REC (UG/L)	1	--	--	--	--	--	--	--	--
49298	ESFENVALERATE FL (UG/L)	1	--	--	--	--	--	--	--	--
82663	ETHALFLURALIN FI (UG/L)	1	--	--	--	--	--	--	--	--
39398	ETHION TOTAL (WA UG/L	5	0.000	--	--	--	--	--	--	--
82672	ETHOPROP FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
49297	FENURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38811	FLUOMETURON FLT (UG/L)	1	--	--	--	--	--	--	--	--
04095	FONOFOX DISS REC (UG/L)	1	--	--	--	--	--	--	--	--
91065	ALPHA D6 HCH SUR (PERCENT)	1	86.000	--	--	--	--	--	--	--
39420	HEPT EPOX TOT(WA UG/L	5	0.000	--	--	--	--	--	--	--
39410	HEPTACHLOR T.(WA UG/L	5	0.000	--	--	--	--	--	--	--
39341	LINDANE DISSOLVE UG/L	1	--	--	--	--	--	--	--	--
39340	LINDANE TOTAL(WA UG/L	5	0.000	--	--	--	--	--	--	--
38478	LINURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82666	LINURON FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
39532	MALATHION DISSOL UG/L	1	0.004	--	--	--	--	--	--	--
39530	MALATHION TOT(WA UG/L	5	0.000	--	--	--	--	--	--	--
38482	MCPA FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38487	MCPB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38501	METHIOCARB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49296	METHOMYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82686	METHYL AZINPHOS (UG/L)	1	--	--	--	--	--	--	--	--
39600	MET PARTH TOT(WA UG/L	5	0.000	--	--	--	--	--	--	--
82667	METHYL PARATHION (UG/L)	1	--	--	--	--	--	--	--	--
39790	MET TRITH TOT(WA UG/L	5	0.000	--	--	--	--	--	--	--
39415	METOLACHLOR,WAT. UG/L	1	0.001	--	--	--	--	--	--	--
82630	METRIBUZIN,WAT.D UG/L	1	--	--	--	--	--	--	--	--
39755	MIREX TOTAL UG/L	3	0.000	--	--	--	--	--	--	--
82671	MOLINATE FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82684	NAPROPAMIDE FIL (UG/L)	1	--	--	--	--	--	--	--	--
49294	NEBURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49293	NORFLURAZON FLTR (UG/L)	1	--	--	--	--	--	--	--	--
49292	ORYZALIN FLTRD (UG/L)	1	--	--	--	--	--	--	--	--

Supplement 17. Statistical summary of water-quality data for the Sheyenne River near Kindred, N. Dak., gaging station 05059000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
38866	OXAMYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
34653	P,P' DDE DISSOLV (UG/L)	1	--	--	--	--	--	--	--	--
39360	P,P'-DDD UNFLT R UG/L	5	0.000	--	--	--	--	--	--	--
39365	P,P'-DDE, TOTAL UG/L	5	--	--	--	--	--	--	--	--
39370	P,P'-DDT UNFILT UG/L	5	0.000	--	--	--	--	--	--	--
39542	PARATHION DISSOL UG/L	1	--	--	--	--	--	--	--	--
39540	PARATHION TOT(WA UG/L	5	0.000	--	--	--	--	--	--	--
39516	PCB TOTAL (WA UG/L	5	0.000	--	--	--	--	--	--	--
39250	PCN TOTAL (WA UG/L	3	0.000	--	--	--	--	--	--	--
82669	PEBULATE FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82683	PENDIMETHALIN F. (UG/L)	1	--	--	--	--	--	--	--	--
82687	PERMETHRIN FIL. (UG/L)	1	--	--	--	--	--	--	--	--
39034	PERTHANE TOTAL UG/L	2	0.000	--	--	--	--	--	--	--
82664	PHORATE FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
49291	PICLORAM FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04037	PROMETON DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
82676	PRONAMIDE FIL .7 (UG/L)	1	--	--	--	--	--	--	--	--
04024	PROPACHLOR DISS (UG/L)	1	--	--	--	--	--	--	--	--
82679	PROPANIL FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82685	PROPARGITE FIL. (UG/L)	1	--	--	--	--	--	--	--	--
49236	PROPHAM FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38538	PROPOXUR FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39762	SILVEX DISSOLVED UG/L	1	--	--	--	--	--	--	--	--
39760	SILVEX TOTAL (WA UG/L	4	0.000	--	--	--	--	--	--	--
04035	SIMAZINE DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
82670	TEBUTHIURON FIL (UG/L)	1	--	--	--	--	--	--	--	--
82665	TERBACIL FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82675	TERBUFOS FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
91064	TERBUTHYLAZINE S (PERCENT)	1	109.000	--	--	--	--	--	--	--
82681	THIOBENCARB FIL (UG/L)	1	--	--	--	--	--	--	--	--
39400	TOXAPHENE TOT(WA UG/L	5	0.000	--	--	--	--	--	--	--
82678	TRIALLATE FIL .7 (UG/L)	1	--	--	--	--	--	--	--	--
49235	TRICLOPYR FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82661	TRIFLURALIN FIL (UG/L)	1	--	--	--	--	--	--	--	--
39731	2,4-D BTM UG/KG	5	--	--	--	--	--	--	--	--

Supplement 17. Statistical summary of water-quality data for the Sheyenne River near Kindred, N. Dak., gaging station 05059000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
39333	ALDRIN BTM U UG/KG	5	0.000	--	--	--	--	--	--	--
39351	CHLORDANE BTM U UG/KG	5	0.000	--	--	--	--	--	--	--
39571	DIAZINON BTM U UG/KG	5	0.000	--	--	--	--	--	--	--
39383	DIELDRIN BTM UG/KG	5	0.000	--	--	--	--	--	--	--
39393	ENDRIN BTM UG/KG	5	0.000	--	--	--	--	--	--	--
39399	ETHION BTM UG/KG	5	0.000	--	--	--	--	--	--	--
39423	HEPT EPOX BTM U UG/KG	5	0.000	--	--	--	--	--	--	--
39413	HEPTACHLOR BTM U UG/KG	5	1.200	0.000	--	--	--	--	--	--
39343	LINDANE BTM U UG/KG	5	0.000	--	--	--	--	--	--	--
39531	MALATHION BTM U UG/KG	5	0.000	--	--	--	--	--	--	--
39601	MET PARTH BTM U UG/KG	5	0.000	--	--	--	--	--	--	--
39791	MET TRITH BTM U UG/KG	5	0.000	--	--	--	--	--	--	--
39363	P,P'-DDD BEDMAT UG/KG	5	0.300	0.100	--	--	--	--	--	--
39368	P,P'-DDE BED MAT UG/KG	5	0.200	0.000	--	--	--	--	--	--
39373	P,P'-DDT BTM UG/KG	5	0.000	--	--	--	--	--	--	--
39541	PARATHION BTM UG UG/KG	5	0.000	--	--	--	--	--	--	--
39519	PCB BTM UG/KG	5	2.000	0.000	--	--	--	--	--	--
39761	SILVEX BT UG/KG	5	0.000	--	--	--	--	--	--	--
39787	TRITHION BTM UG/KG	5	0.000	--	--	--	--	--	--	--
82068	POTSSSIUM 40 DIS (PCI/L AS K40)	5	7.400	5.000	--	--	--	--	--	--
70338	SED-SUSP-FALL-D- %	10	83.000	44.000	55.900	83.000	58.500	53.500	49.750	44.000
70340	SED-SUSP-FALL-D- %	10	99.000	65.000	79.200	99.000	87.500	76.500	71.250	65.000
70342	SED-SUSP-FALL-D- %	3	100.000	100.000	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	101	100.000	24.000	85.743	100.000	98.000	92.000	80.000	48.300
70332	SED-SUSP-SIEVE-. %	7	99.000	91.000	96.429	99.000	99.000	98.000	93.000	91.000
70333	SED-SUSP-SIEVE-. %	7	100.000	97.000	99.286	100.000	100.000	100.000	99.000	97.000
70334	SED-SUSP-SIEVE-. %	3	100.000	100.000	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	107	2850.000	10.000	155.991	526.800	150.000	72.000	39.000	15.800
80155	DISCHARGE,SUSP.S T/DAY	107	9990.000	1.100	305.869	1378.000	177.000	26.000	8.000	2.600
80157	SED-BED-FALL-D-. %	1	4.000	--	--	--	--	--	--	--
80158	SED-BED-FALL-D-. %	2	21.000	16.000	--	--	--	--	--	--
80159	SED-BED-FALL-D-. %	2	49.000	45.000	--	--	--	--	--	--
80160	SED-BED-FALL-D-. %	2	93.000	88.000	--	--	--	--	--	--
80161	SED-BED-FALL-D-. %	2	97.000	94.000	--	--	--	--	--	--
80162	SED-BED-FALL-D-1 %	1	94.000	--	--	--	--	--	--	--

Supplement 17. Statistical summary of water-quality data for the Sheyenne River near Kindred, N. Dak., gaging station 05059000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
80164	SED-BED-SIEVE-.0 %	10	34.000	4.000	17.400	34.000	26.000	18.500	4.750	4.000
80165	SED-BED-SIEVE-.1 %	10	86.000	18.000	53.700	86.000	72.000	62.000	24.250	18.000
80166	SED-BED-SIEVE-.2 %	10	99.000	56.000	82.700	99.000	92.000	84.500	76.250	56.000
80167	SED-BED-SIEVE-.5 %	10	100.000	89.000	93.600	100.000	96.750	93.000	90.750	89.000
80168	SED-BED-SIEVE-1. %	10	99.000	90.000	95.900	99.000	98.250	96.000	94.000	90.000
80169	SED-BED-SIEVE-2. %	11	100.000	92.000	97.364	100.000	100.000	97.000	96.000	92.000
80170	SED-BED-SIEVE-4. %	8	99.000	94.000	97.875	99.000	99.000	98.500	97.250	94.000
80171	SED-BED-SIEVE-8. %	8	100.000	96.000	99.250	100.000	100.000	100.000	99.000	96.000
80172	SED-BED-SIEVE-16 %	3	100.000	97.000	--	--	--	--	--	--
80173	SED-BED-SIEVE-32 %	2	100.000	100.000	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 18. Statistical summary of water-quality data for the Sheyenne River at West Fargo, N. Dak., gaging station 05059500, September 1969 through July 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, September 1969 through July 2001									
00065	GAGE HEIGHT (FEET)	1	8.090	--	--	--	--	--	--	--
00060	DISCHARGE CFS	46	1490.000	32.000	341.804	1402.500	568.500	116.000	64.750	39.050
00061	DISCHARGE, INST. CFS	283	3840.000	5.300	453.470	2022.000	486.000	164.000	64.000	22.200
00540	RESIDUE FIXED (MG/L)	331	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	331	251.000	0.000	0.878	0.780	0.000	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	331	3710.000	0.000	81.024	643.799	0.000	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	60	820.000	222.000	489.700	673.600	576.750	504.500	401.500	246.700
70301	DISSOLVED SOLIDS MG/L	331	823.000	0.000	87.616	574.000	0.000	0.000	0.000	0.000
00076	TURBIDITY (NTU)	1	34.000	--	--	--	--	--	--	--
61028	TURBIDITY, FIELD (NTU)	1	150.000	--	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	3	783.000	725.000	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	3	9.000	6.700	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	331	204.000	0.000	1.027	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	64	8.600	6.700	7.948	8.500	8.200	8.000	7.700	7.425
00403	PH, WH, LABORATO (STANDARD UNIT	27	9.100	6.600	7.993	8.820	8.300	8.100	7.800	6.720
00094	FIELD CONDUCTIVI US/CM @ 25C	2	805.000	765.000	--	--	--	--	--	--
90095	SPECIFIC CONDUCT MICROSIEMENS/C	30	1240.000	409.000	776.833	1141.000	885.250	786.500	676.750	412.850
00095	SPECIFIC CONDUCT US/CM @ 25C	325	1700.000	237.000	814.545	1197.000	954.000	833.000	672.500	387.900
00020	AIR TEMPERATURE DEGREES C	169	118.000	-21.000	10.920	28.000	21.000	13.000	0.250	-14.000
00010	WATER TEMPERATUR (DEGREES C)	323	73.300	-1.000	9.880	24.400	19.000	8.000	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	331	56.000	0.000	0.169	0.000	0.000	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	331	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	331	89.000	0.000	4.571	45.400	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	331	34.000	0.000	0.112	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	331	500.000	0.000	50.997	340.000	0.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	60	110.000	24.000	67.617	98.000	84.750	69.500	51.500	32.050
00925	MAGNESIUM DISSOL (MG/L AS MG)	60	55.000	13.000	27.150	42.000	30.000	27.000	21.000	13.050
00935	POTASSIUM DISSOL (MG/L AS K)	60	14.000	3.300	8.637	12.000	9.975	8.200	7.300	5.605
00931	SODIUM ADSORPTIO (RATIO)	331	2.000	0.000	0.277	2.000	0.000	0.000	0.000	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	60	95.000	23.000	58.200	85.850	71.750	60.500	46.000	25.050
00932	SODIUM, PERCENT PERCENT	331	39.000	0.000	5.459	32.000	0.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	331	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	31	335.000	120.000	236.710	328.400	270.000	240.000	200.000	126.000
00418	ALKALINITY,DIS,F (MG/L AS CACO3	1	256.000	--	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	1	262.000	--	--	--	--	--	--	--

Supplement 18. Statistical summary of water-quality data for the Sheyenne River at West Fargo, N. Dak., gaging station 05059500, September 1969 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, September 1969 through July 2001--Continued							
00410	ANC, FET, FIELD (MG/L AS CACO3	29	310.000	124.000	227.966	298.500	270.500	250.000	172.000	124.500
95440	BICARBONATE MG/L AS CACO3	24	350.000	140.000	262.500	345.000	310.000	280.000	212.500	142.500
00453	BICARBONATE,DIS, (MG/L AS HCO3)	1	320.000	--	--	--	--	--	--	--
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	29	380.000	150.000	277.241	365.000	330.000	300.000	210.000	150.000
95445	CARBONATE MG/L AS CO3	24	30.000	0.000	1.583	23.750	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	1	0.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	29	0.000	--	--	--	--	--	--	--
00940	CHLORIDE DISSOLV (MG/L AS CL)	60	57.000	7.800	27.063	48.800	36.000	27.000	18.250	8.810
00950	FLUORIDE DISSOLV (MG/L AS F)	60	0.600	0.100	0.205	0.300	0.275	0.200	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	55	24.000	3.200	15.247	23.200	19.000	16.000	12.000	7.640
00945	SULFATE DISSOLVE (MG/L AS SO4)	60	310.000	8.600	138.677	219.500	170.000	140.000	104.000	64.250
00608	NITROGEN AMMONIA (MG/L AS N)	1	0.260	--	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	1	1.300	--	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	331	0.330	0.000	0.001	0.000	0.000	0.000	0.000	0.000
71845	NITROGEN, NH4, T MG/L AS NH4	331	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	331	1.700	0.000	0.005	0.000	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	331	1.500	0.000	0.024	0.000	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	331	6.700	0.000	0.185	1.000	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	331	0.000	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	2	0.370	0.020	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	331	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	331	0.066	0.000	0.000	0.000	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	1	0.020	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	331	1.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	331	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	331	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	331	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	331	0.600	0.000	0.012	0.000	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	331	0.000	--	--	--	--	--	--	--
00666	PHOSPHORUS DISS. (MG/L AS P)	1	0.170	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	331	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	331	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	331	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	331	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	8	0.300	0.007	0.147	0.300	0.191	0.146	0.085	0.007

Supplement 18. Statistical summary of water-quality data for the Sheyenne River at West Fargo, N. Dak., gaging station 05059500, September 1969 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, September 1969 through July 2001--Continued									
00621	NITROGEN NITRATE (MG/KG AS N)	331	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	331	88.000	0.000	1.328	7.920	0.000	0.000	0.000	0.000
00690	CARBON INORG + O (MG/L AS C)	331	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	331	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	331	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	331	0.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	28	10.000	1.000	5.071	10.000	6.750	5.000	3.000	1.450
01005	BARIUM DISSOLVED (UG/L AS BA)	1	90.000	--	--	--	--	--	--	--
01010	BERYLLIUM DISSOL (UG/L AS BE)	1	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	54	5400.000	--	*280.866	1007.500	*200.000	*125.000	*87.500	*26.925
01025	CADMIUM DISSOLVE (UG/L AS CD)	1	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	1	--	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	1	--	--	--	--	--	--	--	--
01040	COPPER DISSOLVED (UG/L AS CU)	1	--	--	--	--	--	--	--	--
71885	IRON UG/L AS FE	12	3800.000	0.000	690.833	3800.000	1030.000	320.000	40.000	0.000
01046	IRON DISSOLVED (UG/L AS FE)	48	510.000	--	*73.392	*425.500	*77.500	*40.000	*20.000	*3.885
01049	LEAD DISSOLVED (UG/L AS PB)	29	4.000	--	*0.512	*3.500	*0.502	*0.180	*0.062	*0.012
01130	LITHIUM DISSOLVE (UG/L AS LI)	29	70.000	18.000	49.759	70.000	60.000	50.000	40.000	23.500
71883	MANGANESE UG/L AS MN	12	220.000	10.000	50.833	220.000	70.000	25.000	12.500	10.000
01056	MANGANESE DISSOL (UG/L AS MN)	48	260.000	--	*83.396	*226.500	*135.000	*65.000	*20.000	*5.902
71890	MERCURY DISSOLVE UG/L AS HG	28	0.400	--	*0.150	*0.400	*0.200	*0.100	*0.068	*0.031
01060	MOLYBDENUM DISSO (UG/L AS MO)	28	6.000	--	*2.019	*5.550	*3.000	*1.787	*1.000	*0.398
01065	NICKEL DISSOLVED (UG/L AS NI)	1	--	--	--	--	--	--	--	--
01145	SELENIUM DISSOLV (UG/L AS SE)	28	--	--	--	--	--	--	--	--
01075	SILVER DISSOLVED (UG/L AS AG)	1	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	29	550.000	140.000	354.483	525.000	420.000	380.000	295.000	145.000
01085	VANADIUM DISSOLV (UG/L AS V)	1	--	--	--	--	--	--	--	--
01090	ZINC DISSOLVED (UG/L AS ZN)	1	7.000	--	--	--	--	--	--	--
82082	HYDROGEN 2 / 1 R RATIO PER MIL	1	-104.000	--	--	--	--	--	--	--
07060	IRON 59 DISSOLVE (PCI/L)	1	2.000	--	--	--	--	--	--	--

Supplement 18. Statistical summary of water-quality data for the Sheyenne River at West Fargo, N. Dak., gaging station 05059500, September 1969 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, September 1969 through July 2001--Continued							
82085	OXYGEN 18 / 16 R RATIO PER MIL	1	-13.400	--	--	--	--	--	--	--
07000	TRITIUM TOTAL (PCI/L)	1	61.000	--	--	--	--	--	--	--
75985	TRITIUM PREC EST PCI/L	1	6.400	--	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	331	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	331	0.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 19. Statistical summary of water-quality data for the Maple River near Enderlin, N. Dak., gaging station 05059700, October 1971 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Paremeter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, October 1971 through April 2001									
00060	DISCHARGE CFS	32	698.000	1.100	114.463	652.500	86.000	13.000	3.650	1.620
00061	DISCHARGE, INST. CFS	308	3590.000	0.950	229.388	1289.499	120.250	6.400	2.725	1.745
00540	RESIDUE FIXED (MG/L)	340	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	340	2.140	0.000	0.300	1.600	0.000	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	340	3360.000	0.000	54.448	376.601	0.000	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	81	1570.000	182.000	924.284	1330.000	1170.000	1070.000	728.000	260.200
70301	DISSOLVED SOLIDS MG/L	340	1540.000	0.000	211.756	1149.000	0.000	0.000	0.000	0.000
00025	AIR PRESSURE (MM OF HG)	2	932.000	731.000	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	1	12.400	--	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	340	137.000	0.000	0.403	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	86	8.400	6.900	7.741	8.200	8.000	7.800	7.575	7.100
00403	PH, WH, LABORATO (STANDARD UNIT	27	9.900	6.800	7.830	9.300	8.100	7.900	7.400	6.920
00094	FIELD CONDUCTIVI US/CM @ 25C	19	2250.000	321.000	1168.263	2250.000	1550.000	1400.000	465.000	321.000
90095	SPECIFIC CONDUCT MICROSIEMENS/C	16	1960.000	474.000	1091.125	1960.000	1390.000	1125.000	570.750	474.000
00095	SPECIFIC CONDUCT US/CM @ 25C	331	2800.000	275.000	1297.752	1984.000	1630.000	1420.000	960.000	400.000
00020	AIR TEMPERATURE DEGREES C	200	36.000	-32.000	9.658	28.475	19.375	10.250	1.000	-10.000
00010	WATER TEMPERATUR (DEGREES C)	334	30.000	-5.000	9.204	23.000	17.625	6.000	1.000	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	340	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	340	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	340	480.000	0.000	40.959	360.000	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	340	400.000	0.000	3.332	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	340	910.000	0.000	132.382	730.000	0.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	81	200.000	26.000	135.074	200.000	180.000	150.000	105.000	33.200
00925	MAGNESIUM DISSOL (MG/L AS MG)	81	110.000	9.500	52.932	86.000	65.500	60.000	42.000	13.100
00935	POTASSIUM DISSOL (MG/L AS K)	81	24.000	5.300	11.436	18.900	13.000	11.000	8.900	7.910
00931	SODIUM ADSORPTIO (RATIO)	340	3.000	0.000	0.319	2.000	0.000	0.000	0.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	5	120.000	32.000	--	--	--	--	--	--
00930	SODIUM DISSOLVED (MG/L AS NA)	81	180.000	12.000	76.938	139.000	99.500	79.000	60.000	16.000
00932	SODIUM, PERCENT PERCENT	340	36.000	0.000	5.300	25.950	0.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	340	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	38	393.000	83.000	247.605	390.150	352.000	276.000	134.250	90.600
00410	ANC, FET, FIELD (MG/L AS CACO3	43	431.000	81.000	304.674	392.800	372.000	340.000	279.000	89.200
95440	BICARBONATE MG/L AS CACO3	23	480.000	24.000	304.522	478.000	430.000	360.000	150.000	39.200
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	43	520.000	99.000	370.442	478.000	450.000	420.000	340.000	112.000
95445	CARBONATE MG/L AS CO3	23	90.000	0.000	6.696	83.400	0.000	0.000	0.000	0.000

Supplement 19. Statistical summary of water-quality data for the Maple River near Enderlin, N. Dak., gaging station 05059700, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
00445	ANC CARB FET FIE (MG/L AS CO3)	43	14.000	0.000	0.326	0.000	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	81	140.000	2.500	50.483	100.000	67.500	48.000	27.000	8.410
00950	FLUORIDE DISSOLV (MG/L AS F)	81	0.600	0.100	0.206	0.490	0.200	0.200	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	70	35.000	5.600	20.220	29.000	25.000	21.000	16.500	9.810
00945	SULFATE DISSOLVE (MG/L AS SO4)	81	650.000	42.000	374.000	549.000	480.000	450.000	260.000	68.300
71846	NITR. NH4 AS NH4 MG/L AS NH4	340	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	340	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	340	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	340	3.200	0.000	0.047	0.230	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	340	14.000	0.000	0.205	1.000	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	340	0.000	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	340	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	340	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	340	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	340	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	340	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	340	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	340	1.400	0.000	0.027	0.179	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	340	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	340	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	340	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	340	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	340	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	14	0.310	0.007	0.119	0.310	0.165	0.102	0.060	0.007
00621	NITROGEN NITRATE (MG/KG AS N)	340	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	340	69.000	0.000	3.039	18.000	0.000	0.000	0.000	0.000
00690	CARBON INORG + O (MG/L AS C)	340	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	340	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	340	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	340	0.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	36	20.000	1.000	4.778	10.650	5.750	4.000	3.000	1.850
01020	BORON DISSOLVED (UG/L AS B)	70	520.000	--	*183.295	*464.500	*260.000	*165.000	*60.000	*34.994
01046	IRON DISSOLVED (UG/L AS FE)	79	1000.000	10.000	102.278	300.000	120.000	60.000	30.000	10.000
01049	LEAD DISSOLVED (UG/L AS PB)	35	3.000	--	*0.612	*2.200	*1.000	*0.398	*0.207	*0.080
01130	LITHIUM DISSOLVE (UG/L AS LI)	36	130.000	6.000	68.472	130.000	110.000	70.000	26.000	13.650

Supplement 19. Statistical summary of water-quality data for the Maple River near Enderlin, N. Dak., gaging station 05059700, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
01056	MANGANESE DISSOL (UG/L AS MN)	81	1600.000	10.000	647.654	1400.000	1000.000	730.000	165.000	40.000
71890	MERCURY DISSOLVE UG/L AS HG	36	0.500	--	*0.136	*0.500	*0.200	*0.100	*0.046	*0.017
01060	MOLYBDENUM DISSO (UG/L AS MO)	35	24.000	--	*3.035	*21.600	*3.000	*2.000	*1.000	*0.356
01145	SELENIUM DISSOLV (UG/L AS SE)	36	2.000	--	*0.611	*2.000	*0.770	*0.458	*0.269	*0.121
01080	STRONTIUM DISSOL (UG/L AS SR)	36	970.000	6.000	511.444	944.500	755.000	535.000	232.500	26.400
07060	IRON 59 DISSOLVE (PCI/L)	1	2.000	--	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	340	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	340	0.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 20. Statistical summary of water-quality data for the Maple River below Mapleton, N. Dak., gaging station 05060100, March 1995 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, March 1995 through April 2001							
00065	GAGE HEIGHT (FEET)	1	9.710	--	--	--	--	--	--	--
00060	DISCHARGE CFS	29	6620.000	8.800	572.786	4710.000	487.500	131.000	49.000	10.400
00061	DISCHARGE, INST. CFS	50	5660.000	0.820	775.424	3366.500	1515.000	160.000	25.750	2.750
00540	RESIDUE FIXED (MG/L)	81	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	81	1.670	0.000	0.133	1.238	0.000	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	81	3990.000	0.000	149.999	1371.000	0.000	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	11	1230.000	223.000	720.727	1230.000	1010.000	729.000	343.000	223.000
70301	DISSOLVED SOLIDS MG/L	81	1110.000	0.000	90.667	880.200	0.000	0.000	0.000	0.000
00301	OXYGEN DIS. PERC % OF SATURATIO	81	0.000	--	--	--	--	--	--	--
00400	PH, WH, FIELD (STANDARD UNIT	11	8.600	6.500	8.027	8.600	8.400	8.100	8.000	6.500
00403	PH, WH, LABORATO (STANDARD UNIT	4	8.300	7.700	--	--	--	--	--	--
90095	SPECIFIC CONDUCT MICROSIEMENS/C	9	1410.000	347.000	869.667	1410.000	1210.000	862.000	512.500	347.000
00095	SPECIFIC CONDUCT US/CM @ 25C	78	2190.000	305.000	1136.564	1986.500	1460.000	1180.000	716.250	359.500
00020	AIR TEMPERATURE DEGREES C	45	29.000	-22.000	8.956	27.850	16.000	9.500	3.000	-17.700
00010	WATER TEMPERATUR (DEGREES C)	76	29.500	-0.500	11.532	25.710	21.600	11.000	1.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	81	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	81	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	81	0.000	--	--	--	--	--	--	--
00903	NONCARBONATE HAR (MG/L AS CACO3	81	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	81	680.000	0.000	54.815	508.000	0.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	11	140.000	34.000	86.818	140.000	110.000	94.000	45.000	34.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	11	80.000	13.000	45.545	80.000	62.000	50.000	21.000	13.000
00935	POTASSIUM DISSOL (MG/L AS K)	11	16.000	6.600	11.791	16.000	14.000	12.000	9.400	6.600
00931	SODIUM ADSORPTIO (RATIO)	81	2.000	0.000	0.173	1.900	0.000	0.000	0.000	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	11	110.000	13.000	63.636	110.000	110.000	64.000	28.000	13.000
00932	SODIUM, PERCENT PERCENT	81	30.000	0.000	3.160	25.700	0.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	81	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	11	305.000	94.000	206.000	305.000	290.000	226.000	124.000	94.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	11	64.000	7.400	35.764	64.000	58.000	37.000	17.000	7.400
00950	FLUORIDE DISSOLV (MG/L AS F)	11	0.300	0.100	0.209	0.300	0.300	0.200	0.200	0.100
00945	SULFATE DISSOLVE (MG/L AS SO4)	11	550.000	73.000	299.364	550.000	440.000	260.000	130.000	73.000
71846	NITR. NH4 AS NH4 MG/L AS NH4	81	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	81	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	81	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	81	0.000	--	--	--	--	--	--	--

Supplement 20. Statistical summary of water-quality data for the Maple River below Mapleton, N. Dak., gaging station 05060100, March 1995 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, March 1995 through April 2001--Coutiuued							
71851	NITR. NO3 AS NO3 MG/L AS NO3	81	0.000	--	--	--	--	--	--	--
00620	NITROGEN NITRATE MG/L AS N	81	0.000	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	81	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	81	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	81	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	81	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	81	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	81	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	81	0.000	--	--	--	--	--	--	--
00650	PHOSPHATE TOTAL (MG/L AS PO4)	81	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	81	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	81	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	81	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	81	0.000	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	81	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	81	65.000	0.000	1.104	3.590	0.000	0.000	0.000	0.000
00690	CARBON INORG + O (MG/L AS C)	81	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	81	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	81	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	81	0.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	11	12.000	3.000	6.545	12.000	10.000	5.000	4.000	3.000
01046	IRON DISSOLVED (UG/L AS FE)	11	80.000	10.000	39.091	80.000	60.000	30.000	20.000	10.000
01049	LEAD DISSOLVED (UG/L AS PB)	11	--	--	--	--	--	--	--	--
01130	LITHIUM DISSOLVE (UG/L AS LI)	11	110.000	20.000	60.000	110.000	90.000	60.000	30.000	20.000
01056	MANGANESE DISSOL (UG/L AS MN)	11	210.000	20.000	75.455	210.000	100.000	50.000	30.000	20.000
71890	MERCURY DISSOLVE UG/L AS HG	11	--	--	--	--	--	--	--	--
01060	MOLYBDENUM DISSO (UG/L AS MO)	11	7.000	--	*2.575	*7.000	*4.000	*1.000	*1.000	*0.325
01145	SELENIUM DISSOLV (UG/L AS SE)	11	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	11	690.000	160.000	422.727	690.000	540.000	480.000	210.000	160.000
80156	SUS-SED DISCH + T/DAY	81	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	81	0.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 21. Statistical summary of water-quality data for the Rush River at Amenia, N. Dak., gaging station 05060500, November 1971 through August 2000

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, November 1971 through August 2000									
00065	GAGE HEIGHT (FEET)	3	6.500	3.900	--	--	--	--	--	--
00060	DISCHARGE CFS	24	1450.000	0.030	80.926	1143.500	34.750	3.950	0.472	0.030
00061	DISCHARGE, INST. CFS	230	3240.000	0.010	112.076	615.150	74.250	8.650	1.300	0.096
00540	RESIDUE FIXED (MG/L)	254	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	254	889.000	0.000	4.761	1.395	0.000	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	254	1500.000	0.000	23.091	110.750	0.000	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	50	1450.000	137.000	708.500	1320.000	947.250	760.500	357.000	209.200
70301	DISSOLVED SOLIDS MG/L	254	1400.000	0.000	131.039	889.500	0.000	0.000	0.000	0.000
00025	AIR PRESSURE (MM OF HG)	1	736.000	--	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	254	0.000	--	--	--	--	--	--	--
00400	PH, WH, FIELD (STANDARD UNIT	50	8.400	6.800	7.910	8.400	8.100	8.000	7.800	7.155
00403	PH, WH, LABORATO (STANDARD UNIT	30	8.200	6.700	7.617	8.200	7.925	7.700	7.375	6.810
00094	FIELD CONDUCTIVI US/CM @ 25C	12	1380.000	394.000	859.500	1380.000	1100.000	890.000	472.500	394.000
90095	SPECIFIC CONDUCT MICROSIEMENS/C	22	1660.000	282.000	924.000	1628.500	1227.500	1035.000	608.500	283.800
00095	SPECIFIC CONDUCT US/CM @ 25C	245	4000.000	208.000	1046.755	1994.000	1350.000	1070.000	636.000	320.000
00020	AIR TEMPERATURE DEGREES C	166	35.000	-9.000	11.849	28.650	20.000	11.500	3.500	-3.000
00010	WATER TEMPERATUR (DEGREES C)	253	28.500	0.000	10.191	24.500	19.000	9.000	1.000	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	254	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	254	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	254	490.000	0.000	14.031	58.000	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	254	280.000	0.000	1.850	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	254	770.000	0.000	84.646	592.500	0.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	50	180.000	27.000	100.960	174.500	132.500	115.000	53.250	32.100
00925	MAGNESIUM DISSOL (MG/L AS MG)	50	78.000	8.500	42.930	75.250	62.250	47.500	19.000	11.550
00935	POTASSIUM DISSOL (MG/L AS K)	50	19.000	4.900	11.938	18.450	15.000	12.000	9.550	5.975
00931	SODIUM ADSORPTIO (RATIO)	254	3.000	0.000	0.193	1.000	0.000	0.000	0.000	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	50	200.000	7.000	52.640	124.500	70.500	51.000	18.750	7.820
00932	SODIUM, PERCENT PERCENT	254	39.000	0.000	3.681	21.000	0.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	254	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	36	410.000	77.000	233.639	400.650	329.000	222.000	145.250	94.000
00410	ANC, FET, FIELD (MG/L AS CACO3	15	374.000	89.000	232.467	374.000	320.000	279.000	124.000	89.000
95440	BICARBONATE MG/L AS CACO3	19	510.000	94.000	262.842	510.000	410.000	220.000	150.000	94.000
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	15	460.000	110.000	282.000	460.000	390.000	330.000	150.000	110.000
95445	CARBONATE MG/L AS CO3	18	0.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	15	3.000	0.000	0.200	3.000	0.000	0.000	0.000	0.000

Supplement 21. Statistical summary of water-quality data for the Rush River at Amenia, N. Dak., gaging station 05060500, November 1971 through August 2000--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, November 1971 through August 2000--Continued								
00940	CHLORIDE DISSOLV (MG/L AS CL)	50	120.000	2.300	24.618	62.900	34.000	20.000	9.750	3.095
00950	FLUORIDE DISSOLV (MG/L AS F)	50	1.000	0.100	0.228	0.400	0.300	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	38	32.000	3.100	15.766	32.000	19.250	15.000	11.000	4.715
00945	SULFATE DISSOLVE (MG/L AS SO4)	50	670.000	37.000	279.000	642.500	405.000	270.000	110.000	50.300
71846	NITR. NH4 AS NH4 MG/L AS NH4	254	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	254	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	254	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	254	3.400	0.000	0.026	0.000	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	254	15.000	0.000	0.158	0.025	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	254	0.000	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	254	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	254	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	254	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	254	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	254	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	254	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	254	1.000	0.000	0.024	0.000	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	254	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	254	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	254	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	254	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	254	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	4	--	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	254	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	254	51.000	0.000	1.355	7.000	0.000	0.000	0.000	0.000
00690	CARBON INORG + O (MG/L AS C)	254	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	254	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	254	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	254	0.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	35	19.000	1.000	7.229	16.600	10.000	6.000	3.000	1.800
01020	BORON DISSOLVED (UG/L AS B)	38	790.000	--	*182.422	*628.500	*230.000	*135.000	*80.000	*28.933
01046	IRON DISSOLVED (UG/L AS FE)	50	820.000	10.000	109.000	728.000	112.500	55.000	30.000	20.000
01049	LEAD DISSOLVED (UG/L AS PB)	34	5.000	--	*0.584	*3.500	*0.683	*0.213	*0.075	*0.017
01130	LITHIUM DISSOLVE (UG/L AS LI)	35	160.000	10.000	72.371	160.000	110.000	70.000	30.000	14.000
01056	MANGANESE DISSOL (UG/L AS MN)	50	1300.000	10.000	294.400	1100.000	327.500	160.000	97.500	25.500

Supplement 21. Statistical summary of water-quality data for the Rush River at Amenia, N. Dak., gaging station 05060500, November 1971 through August 2000--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the suppiemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, November 1971 through August 2000--Continued							
71890	MERCURY DISSOLVE UG/L AS HG	35	0.900	--	*0.158	*0.580	*0.200	*0.100	*0.039	*0.013
01060	MOLYBDENUM DISSO (UG/L AS MO)	35	10.000	--	*1.930	*6.800	*3.000	*1.000	*0.597	*0.230
01145	SELENIUM DISSOLV (UG/L AS SE)	35	3.000	--	*0.692	*2.200	*1.000	*0.480	*0.259	*0.104
01080	STRONTIUM DISSOL (UG/L AS SR)	35	930.000	110.000	473.429	914.000	620.000	500.000	300.000	134.000
07060	IRON 59 DISSOLVE (PCI/L)	2	6.000	1.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	254	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	254	0.000	--	--	--	--	--	--	--

*Vaiue is estimated by using a iog-probability regression to predict the vaiues of data beiow the detection limit.

Supplement 22. Statistical summary of water-quality data for the Buffalo River near Dilworth, Minn., gaging station 05062000, April 1962 through March 1991

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, April 1962 through March 1991							
00061	DISCHARGE, INST. CFS	1	1480.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	1	0.700	--	--	--	--	--	--	--
70300	RESIDUE DIS 180C MG/L	1	539.000	--	--	--	--	--	--	--
70301	DISSOLVED SOLIDS MG/L	1	546.000	--	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	1	760.000	--	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	1	6.100	--	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	1	42.000	--	--	--	--	--	--	--
00400	PH, WH, FIELD (STANDARD UNIT	1	7.700	--	--	--	--	--	--	--
00403	PH, WH, LABORATO (STANDARD UNIT	1	7.900	--	--	--	--	--	--	--
90095	SPECIFIC CONDUCT MICROSIEMENS/C	1	845.000	--	--	--	--	--	--	--
00095	SPECIFIC CONDUCT US/CM @ 25C	1	850.000	--	--	--	--	--	--	--
00010	WATER TEMPERATUR (DEGREES C)	1	0.000	--	--	--	--	--	--	--
00904	HARDNESS NC. DIS (MG/L AS CACO3	1	76.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	1	426.000	--	--	--	--	--	--	--
00915	CALCIUM DISSOLVE (MG/L AS CA)	1	98.000	--	--	--	--	--	--	--
00925	MAGNESIUM DISSOL (MG/L AS MG)	1	44.000	--	--	--	--	--	--	--
00935	POTASSIUM DISSOL (MG/L AS K)	1	7.000	--	--	--	--	--	--	--
00931	SODIUM ADSORPTIO (RATIO)	1	0.485	--	--	--	--	--	--	--
00930	SODIUM DISSOLVED (MG/L AS NA)	1	23.000	--	--	--	--	--	--	--
00932	SODIUM, PERCENT PERCENT	1	10.300	--	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	1	350.000	--	--	--	--	--	--	--
00453	BICARBONATE,DIS, (MG/L AS HCO3)	1	427.000	--	--	--	--	--	--	--
00452	CARBONATE,DIS,IT (MG/L AS CO3)	1	0.000	--	--	--	--	--	--	--
00940	CHLORIDE DISSOLV (MG/L AS CL)	1	15.000	--	--	--	--	--	--	--
00950	FLUORIDE DISSOLV (MG/L AS F)	1	0.200	--	--	--	--	--	--	--
00955	SILICA DISSOLVED (MG/L AS SIO2)	1	25.000	--	--	--	--	--	--	--
00945	SULFATE DISSOLVE (MG/L AS SO4)	1	120.000	--	--	--	--	--	--	--
00608	NITROGEN AMMONIA (MG/L AS N)	1	0.210	--	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	1	0.800	--	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	1	0.270	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	1	1.300	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	1	0.480	--	--	--	--	--	--	--
71851	NITR. NO3 AS NO3 MG/L AS NO3	1	2.120	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	1	0.500	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	1	0.066	--	--	--	--	--	--	--

Supplement 22. Statistical summary of water-quality data for the Buffalo River near Dilworth, Minn., gaging station 05062000, April 1962 through March 1991--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, April 1962 through March 1991--Continued							
00613	NITROGEN,NITRITE MG/L AS N	1	0.020	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	1	0.590	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	1	0.337	--	--	--	--	--	--	--
00666	PHOSPHORUS DISS. (MG/L AS P)	1	0.110	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	1	0.110	--	--	--	--	--	--	--
01005	BARIUM DISSOLVED (UG/L AS BA)	1	61.000	--	--	--	--	--	--	--
01010	BERYLLIUM DISSOL (UG/L AS BE)	1	--	--	--	--	--	--	--	--
01025	CADMIUM DISSOLVE (UG/L AS CD)	1	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	1	--	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	1	--	--	--	--	--	--	--	--
01040	COPPER DISSOLVED (UG/L AS CU)	1	--	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	1	30.000	--	--	--	--	--	--	--
01049	LEAD DISSOLVED (UG/L AS PB)	1	10.000	--	--	--	--	--	--	--
01130	LITHIUM DISSOLVE (UG/L AS LI)	1	40.000	--	--	--	--	--	--	--
01056	MANGANESE DISSOL (UG/L AS MN)	1	100.000	--	--	--	--	--	--	--
01060	MOLYBDENUM DISSO (UG/L AS MO)	1	--	--	--	--	--	--	--	--
01065	NICKEL DISSOLVED (UG/L AS NI)	1	--	--	--	--	--	--	--	--
01075	SILVER DISSOLVED (UG/L AS AG)	1	1.000	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	1	400.000	--	--	--	--	--	--	--
01085	VANADIUM DISSOLV (UG/L AS V)	1	--	--	--	--	--	--	--	--
01090	ZINC DISSOLVED (UG/L AS ZN)	1	16.000	--	--	--	--	--	--	--
82082	HYDROGEN 2 / 1 R RATIO PER MIL	1	-92.000	--	--	--	--	--	--	--
82085	OXYGEN 18 / 16 R RATIO PER MIL	1	-12.250	--	--	--	--	--	--	--
07000	TRITIUM TOTAL (PCI/L)	1	27.000	--	--	--	--	--	--	--
75985	TRITIUM PREC EST PCI/L	1	4.500	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	1	275.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	1	1100.000	--	--	--	--	--	--	--

Supplement 23. Statistical summary of water-quality data for the Elm River near Kelso, N. Dak., gaging station 05062200, February 1981 through April 1989

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, February 1981 through April 1989							
00065	GAGE HEIGHT (FEET)	1	3.830	--	--	--	--	--	--	--
00061	DISCHARGE, INST. CFS	35	705.000	0.010	141.945	581.800	273.000	24.000	0.840	0.018
00540	RESIDUE FIXED (MG/L)	35	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	35	639.000	0.000	18.389	128.560	0.310	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	35	404.000	0.000	38.018	240.000	0.960	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	11	710.000	180.000	374.000	710.000	575.000	292.000	231.000	180.000
70301	DISSOLVED SOLIDS MG/L	35	666.000	0.000	107.686	644.400	231.000	0.000	0.000	0.000
00301	OXYGEN DIS. PERC % OF SATURATIO	35	0.000	--	--	--	--	--	--	--
00400	PH, WH, FIELD (STANDARD UNIT	11	8.800	6.500	7.782	8.800	8.300	7.800	7.400	6.500
00403	PH, WH, LABORATO (STANDARD UNIT	10	9.200	7.200	7.800	9.200	8.025	7.650	7.300	7.200
00094	FIELD CONDUCTIVI US/CM @ 25C	10	1050.000	311.000	563.900	1050.000	861.000	435.000	371.500	311.000
00095	SPECIFIC CONDUCT US/CM @ 25C	31	1530.000	248.000	673.742	1368.000	1000.000	520.000	392.000	272.600
00020	AIR TEMPERATURE DEGREES C	29	33.000	-4.000	11.069	32.000	17.500	7.500	2.500	-1.500
00010	WATER TEMPERATUR (DEGREES C)	34	27.500	0.000	8.941	26.375	18.250	3.500	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	35	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	35	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	35	58.000	0.000	1.657	11.600	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	35	85.000	0.000	5.800	63.400	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	35	450.000	0.000	72.000	418.000	150.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	11	100.000	28.000	55.000	100.000	77.000	43.000	36.000	28.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	11	49.000	11.000	22.091	49.000	35.000	16.000	14.000	11.000
00935	POTASSIUM DISSOL (MG/L AS K)	11	16.000	8.800	11.782	16.000	13.000	12.000	9.500	8.800
00931	SODIUM ADSORPTIO (RATIO)	35	1.000	0.000	0.191	1.000	0.300	0.000	0.000	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	11	59.000	5.900	23.455	59.000	43.000	16.000	8.600	5.900
00932	SODIUM, PERCENT PERCENT	35	23.000	0.000	5.000	21.400	11.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	35	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	11	340.000	80.000	160.818	340.000	180.000	130.000	100.000	80.000
00410	ANC, FET, FIELD (MG/L AS CACO3	1	174.000	--	--	--	--	--	--	--
95440	BICARBONATE MG/L AS CACO3	11	410.000	77.000	190.364	410.000	220.000	160.000	120.000	77.000
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	1	210.000	--	--	--	--	--	--	--
95445	CARBONATE MG/L AS CO3	11	26.000	0.000	2.364	26.000	0.000	0.000	0.000	0.000
00445	ANC CARB FET FIE (MG/L AS CO3)	1	0.000	--	--	--	--	--	--	--
00940	CHLORIDE DISSOLV (MG/L AS CL)	11	41.000	4.500	16.527	41.000	29.000	13.000	7.400	4.500
00950	FLUORIDE DISSOLV (MG/L AS F)	11	0.300	0.100	0.164	0.300	0.200	0.200	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	11	18.000	7.800	14.345	18.000	17.000	15.000	12.000	7.800

Supplement 23. Statistical summary of water-quality data for the Elm River near Kelso, N. Dak., gaging station 05062200, February 1981 through April 1989--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, February 1981 through April 1989--Continued								
00945	SULFATE DISSOLVE (MG/L AS SO4)	11	210.000	35.000	98.636	210.000	170.000	70.000	45.000	35.000
71846	NITR. NH4 AS NH4 MG/L AS NH4	35	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	35	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	35	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	35	6.600	0.000	0.240	2.280	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	35	29.000	0.000	1.660	20.200	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	35	0.000	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	35	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	35	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	35	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	35	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	35	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	35	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	35	0.960	0.000	0.059	0.672	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	35	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	35	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	35	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	35	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	35	0.000	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	35	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	35	62.000	0.000	3.149	23.600	2.400	0.000	0.000	0.000
00690	CARBON INORG + O (MG/L AS C)	35	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	35	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	35	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	35	0.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	10	10.000	3.000	4.900	10.000	6.250	4.000	3.000	3.000
01020	BORON DISSOLVED (UG/L AS B)	11	200.000	0.000	76.364	200.000	150.000	50.000	30.000	0.000
01046	IRON DISSOLVED (UG/L AS FE)	11	150.000	10.000	73.636	150.000	120.000	70.000	20.000	10.000
01049	LEAD DISSOLVED (UG/L AS PB)	10	--	--	--	--	--	--	--	--
01130	LITHIUM DISSOLVE (UG/L AS LI)	10	80.000	13.000	35.100	80.000	46.750	30.000	19.500	13.000
01056	MANGANESE DISSOL (UG/L AS MN)	11	280.000	10.000	110.909	280.000	160.000	100.000	40.000	10.000
71890	MERCURY DISSOLVE UG/L AS HG	10	1.000	--	*0.353	*1.000	*0.525	*0.300	*0.094	*0.051
01060	MOLYBDENUM DISSO (UG/L AS MO)	10	11.000	1.000	2.600	11.000	2.250	2.000	1.000	1.000
01145	SELENIUM DISSOLV (UG/L AS SE)	10	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	10	620.000	85.000	260.500	620.000	387.500	215.000	130.000	85.000

Supplement 23. Statistical summary of water-quality data for the Elm River near Kelso, N. Dak., gaging station 05062200, February 1981 through April 1989--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, February 1981 through April 1989--Continued							
07060	IRON 59 DISSOLVE (PCI/L)	2	11.000	1.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	35	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	35	0.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 24. Statistical summary of water-quality data for the Wild Rice River at Twin Valley, Minn., gaging station 05062500, September 1974 through August 1998

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, September 1974 through August 1998							
00065	GAGE HEIGHT (FEET)	16	11.110	3.020	6.372	11.110	7.827	5.960	5.550	3.020
00060	DISCHARGE CFS	31	2690.000	64.000	855.677	2510.000	1460.000	560.000	288.000	79.600
00061	DISCHARGE, INST. CFS	85	5920.000	31.000	790.435	3745.995	989.000	360.000	108.000	37.000
00310	BOD 5-DAY AT 20 (MG/L)	11	4.700	0.800	2.391	4.700	3.500	2.200	1.400	0.800
00080	COLOR PLATINUM-COBAL	34	80.000	15.000	35.441	72.500	40.000	32.500	30.000	18.750
00520	RESIDUE VOLATILE (MG/L)	1	68.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	78	0.650	0.260	0.436	0.601	0.500	0.400	0.400	0.329
70302	DISSOLVED SOLIDS TONS/DAY	67	2200.000	27.700	360.910	1218.000	450.000	238.000	66.100	37.440
70300	RESIDUE DIS 180C MG/L	79	479.000	193.000	320.304	443.000	346.000	310.000	283.000	249.000
70301	DISSOLVED SOLIDS MG/L	78	456.000	165.000	295.295	423.050	316.500	286.000	262.000	221.900
00070	TURBIDITY (JCU)	20	65.000	2.000	10.650	64.250	7.000	4.000	3.000	2.000
00076	TURBIDITY (NTU)	27	470.000	3.000	66.741	350.000	91.000	25.000	7.000	3.000
00025	AIR PRESSURE (MM OF HG)	57	750.000	726.000	737.140	747.100	740.500	738.000	734.000	728.000
00300	OXYGEN DISSOLVED (MG/L)	95	13.200	3.100	9.017	12.400	10.700	8.700	7.700	6.440
00301	OXYGEN DIS. PERC % OF SATURATIO	94	127.000	22.000	86.886	104.250	95.400	90.100	84.675	51.950
00400	PH, WH, FIELD (STANDARD UNIT	95	9.000	7.200	8.039	8.620	8.300	8.100	7.800	7.400
00403	PH, WH, LABORATO (STANDARD UNIT	45	8.400	7.100	7.864	8.300	8.100	7.900	7.600	7.400
90095	SPECIFIC CONDUCT MICROSIEMENS/C	45	701.000	390.000	511.444	676.500	549.500	497.000	465.000	392.000
00095	SPECIFIC CONDUCT US/CM @ 25C	99	700.000	270.000	495.586	656.000	547.000	487.000	440.000	370.000
00020	AIR TEMPERATURE DEGREES C	77	33.000	-25.600	13.231	30.100	21.500	15.000	5.250	-12.150
00010	WATER TEMPERATUR (DEGREES C)	100	27.500	0.000	12.624	24.425	20.450	13.650	4.125	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	34	85.000	5.000	33.794	82.000	42.250	32.500	13.250	5.750
00902	NONCARBONATE HAR (MG/L AS CACO3	34	57.000	0.000	22.000	57.000	32.000	20.500	8.500	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	79	400.000	130.000	261.101	335.000	287.000	260.000	236.000	190.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	79	98.000	32.000	61.529	79.000	67.000	61.000	55.000	47.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	79	38.000	12.000	26.073	34.000	29.000	26.000	24.000	17.000
00935	POTASSIUM DISSOL (MG/L AS K)	79	8.600	0.900	3.518	7.100	4.000	3.300	2.600	2.100
00931	SODIUM ADSORPTIO (RATIO)	79	0.400	0.100	0.223	0.300	0.283	0.201	0.193	0.135
00933	SODIUM+POTASSIUM (MG/L AS NA)	10	18.000	9.100	11.400	18.000	12.000	10.950	9.625	9.100
00930	SODIUM DISSOLVED (MG/L AS NA)	79	15.000	3.500	8.356	14.000	10.000	8.100	6.500	4.400
00932	SODIUM, PERCENT PERCENT	79	16.000	4.000	6.416	8.020	7.000	6.100	5.430	4.690
90410	ANC, TIT. 4.5, L MG/L AS CACO3	44	372.000	110.000	236.432	330.250	256.750	232.500	212.750	140.500
39086	ALKALINITY,DIS,I (MG/L AS CACO3	37	458.000	120.000	238.703	353.600	249.000	232.000	213.000	168.600
00410	ANC, FET, FIELD (MG/L AS CACO3	34	410.000	80.000	239.706	395.000	265.000	230.000	210.000	117.500
00453	BICARBONATE,DIS, (MG/L AS HCO3)	36	558.000	147.000	285.444	438.150	289.500	273.000	259.500	202.250

Supplement 24. Statistical summary of water-quality data for the Wild Rice River at Twin Valley, Minn., gaging station 05062500, September 1974 through August 1998--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, September 1974 through August 1998--Continued							
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	11	350.000	270.000	303.636	350.000	320.000	300.000	280.000	270.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	36	17.000	0.000	2.556	16.150	2.250	0.000	0.000	0.000
00445	ANC CARB FET FIE (MG/L AS CO3)	11	0.000	--	--	--	--	--	--	--
00940	CHLORIDE DISSOLV (MG/L AS CL)	79	15.000	2.100	4.720	10.000	5.500	4.100	3.000	2.300
00950	FLUORIDE DISSOLV (MG/L AS F)	79	0.500	0.100	0.162	0.200	0.200	0.200	0.100	0.100
00951	FLUORIDE TOTAL (MG/L AS F)	33	0.700	0.100	0.182	0.490	0.200	0.200	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	78	29.000	6.000	14.808	26.050	18.000	14.000	10.000	6.990
00945	SULFATE DISSOLVE (MG/L AS SO4)	79	85.000	12.000	32.770	58.000	39.000	29.000	23.000	14.000
00608	NITROGEN AMMONIA (MG/L AS N)	84	0.400	--	*0.079	*0.370	*0.098	*0.030	*0.010	*0.002
00623	NITRO AMN & ORG (MG/L AS N)	84	1.500	0.400	0.799	1.275	0.900	0.800	0.652	0.482
00624	NITROGEN SUSPEND (MG/L AS N)	36	3.800	0.000	0.293	1.590	0.300	0.100	0.032	0.000
00625	NITROGEN AMM+ORG (MG/L AS N)	86	4.600	0.500	1.003	1.895	1.100	0.900	0.707	0.600
71846	NITR. NH4 AS NH4 MG/L AS NH4	76	0.520	0.000	0.111	0.489	0.130	0.040	0.026	0.000
00610	NITROGEN AMMONIA (MG/L AS N)	37	0.400	0.010	0.106	0.391	0.170	0.050	0.015	0.010
71845	NITROGEN, NH4, T MG/L AS NH4	36	0.520	0.010	0.137	0.503	0.227	0.065	0.020	0.010
00602	NITROGEN DISSOLV (MG/L AS N)	61	6.100	0.480	1.424	3.900	1.365	0.974	0.760	0.621
00618	NITROGEN NITRATE (MG/L AS N)	51	4.670	0.000	0.621	2.748	1.080	0.100	0.010	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	51	20.700	0.000	2.757	12.120	4.780	0.443	0.040	0.000
00620	NITROGEN NITRATE MG/L AS N	37	2.600	0.000	0.441	2.420	0.335	0.050	0.010	0.000
00631	NO2 + NO3 DISSOL (MG/L AS N)	85	4.800	--	*0.417	*2.500	*0.215	*0.063	*0.020	*0.004
00630	NO2 + NO3 TOTAL (MG/L AS N)	38	2.700	--	*0.461	*2.510	*0.325	*0.089	*0.020	*0.003
71856	NITR. NO2 AS NO2 MG/L AS NO2	52	0.427	0.000	0.084	0.370	0.100	0.030	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	84	0.130	--	*0.018	*0.105	*0.010	*0.006	*0.002	*0.001
00615	NITROGEN,NITRITE MG/L AS N	37	0.120	--	*0.023	*0.120	*0.020	*0.010	*0.004	*0.001
00607	NITROGEN ORGANIC (MG/L AS N)	76	1.120	0.380	0.723	1.041	0.810	0.680	0.590	0.502
00605	NITROGEN ORGANIC (MG/L AS N)	77	4.500	0.480	0.928	1.613	1.090	0.780	0.675	0.557
00600	NITROGEN TOTAL (MG/L AS N)	68	6.800	0.520	1.592	4.855	1.570	1.090	0.853	0.614
71887	NITROGEN, TOTAL MG/L AS NO3	38	22.000	2.300	6.787	21.050	6.500	4.400	3.200	2.680
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	73	0.370	0.000	0.091	0.318	0.123	0.060	0.030	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	38	1.000	0.000	0.199	0.895	0.150	0.120	0.090	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	85	0.150	--	*0.038	*0.117	*0.060	*0.030	*0.010	*0.005
00678	PHOSPHORUS HYDRO (MG/L AS P)	36	0.550	--	*0.084	*0.389	*0.075	*0.030	*0.020	*0.005
00677	PHOSPHORUS HYDRO (MG/L AS P)	36	0.150	--	*0.035	*0.125	*0.047	*0.020	*0.010	*0.003
00672	PHOSPHORUS HYDRO (MG/L AS P)	30	0.090	0.000	0.012	0.057	0.020	0.010	0.000	0.000
00669	PHOSPHORUS HYDRO (MG/L AS P)	35	0.490	0.000	0.052	0.282	0.040	0.020	0.010	0.000

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00673	PHOSPHORUS ORG. (MG/L AS P)	37	0.050	0.000	0.011	0.032	0.015	0.010	0.000	0.000
00670	PHOSPHORUS ORG.T (MG/L AS P)	37	0.070	0.000	0.017	0.061	0.020	0.010	0.010	0.000
00671	PHOSPHORUS ORTHO (MG/L AS P)	84	0.120	--	*0.027	*0.090	*0.040	*0.010	*0.010	*0.002
70507	PHOS ORTHO TOT A MG/L AS P	37	0.140	--	*0.033	*0.131	*0.045	*0.020	*0.010	*0.003
00665	PHOSPHORUS TOTAL (MG/L AS P)	86	0.550	0.010	0.082	0.290	0.100	0.050	0.030	0.010
71886	PHOSPHORUS TOT P MG/L AS PO4	21	1.700	0.090	0.433	1.640	0.690	0.210	0.135	0.093
00626	NITROGEN AMMONIA (MG/KG AS N)	1	500.000	--	--	--	--	--	--	--
00603	NITROGEN TOTAL B (MG/KG AS N)	1	500.000	--	--	--	--	--	--	--
00668	PHOSPHORUS BOT. (MG/KG AS P)	1	350.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	76	25.400	0.400	5.750	18.285	7.700	3.250	2.225	0.870
00681	CARBON ORGANIC D (MG/L AS C)	48	40.000	8.500	14.188	26.100	15.000	13.500	11.250	9.490
00689	CARBON ORGANIC P (MG/L AS C)	41	3.600	0.200	0.910	2.470	1.150	0.700	0.400	0.300
60050	PHYTO TYPE-I CELLS/ML	32	19000.000	0.000	1422.438	10030.006	1200.000	685.000	175.000	41.600
31625	COLIFORM FECAL 0 COLS./100 ML	31	170.000	1.000	50.258	158.000	82.000	36.000	10.000	1.600
31673	FECAL STREP,KF M COLS./100 ML	33	1800.000	6.000	160.970	1660.000	115.000	49.000	21.500	7.400
70953	CHL-A PHY CHROMA UG/L	1	0.800	--	--	--	--	--	--	--
70954	CHLOROPHYLL-B, P UG/L	1	--	--	--	--	--	--	--	--
01105	ALUMINUM TOTAL UG/L AS AL	5	380.000	30.000	--	--	--	--	--	--
01002	ARSENIC TOTAL (UG/L AS AS)	6	6.000	2.000	4.333	6.000	6.000	4.500	2.750	2.000
01007	BARIUM TOTAL (UG/L AS BA)	6	--	--	--	--	--	--	--	--
01012	BERYLLIUM TOTAL (UG/L AS BE)	6	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	2	80.000	50.000	--	--	--	--	--	--
01022	BORON TOTAL (UG/L AS B)	6	200.000	70.000	116.667	200.000	177.500	95.000	70.000	70.000
01027	CADMIUM TOTAL (UG/L AS CD)	3	--	--	--	--	--	--	--	--
01034	CHROMIUM TOTAL (UG/L AS CR)	6	--	--	--	--	--	--	--	--
01037	COBALT TOTAL (UG/L AS CO)	3	--	--	--	--	--	--	--	--
01040	COPPER DISSOLVED (UG/L AS CU)	1	--	--	--	--	--	--	--	--
01042	COPPER TOTAL (UG/L AS CU)	6	3.000	--	*2.427	*3.000	*3.000	*2.500	*1.891	*1.563
00720	CYANIDE TOTAL (MG/L AS CN)	7	0.000	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	77	150.000	3.000	58.481	111.000	70.000	50.000	40.000	19.000
01044	IRON SUSPENDED (UG/L AS FE)	32	17000.000	0.000	1240.938	11020.004	720.000	345.000	235.000	6.500
01045	IRON TOTAL (UG/L AS FE)	34	17000.000	90.000	1275.588	10175.000	802.500	400.000	320.000	202.500
01051	LEAD TOTAL (UG/L AS PB)	5	25.000	3.000	--	--	--	--	--	--
01132	LITHIUM TOTAL (UG/L AS LI)	6	--	--	--	--	--	--	--	--
01056	MANGANESE DISSOL (UG/L AS MN)	78	990.000	--	*69.212	*371.500	*42.250	*30.000	*20.000	*4.979

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01054	MANGANESE SUSPEN (UG/L AS MN)	33	750.000	0.000	55.152	309.000	50.000	30.000	15.000	0.000
01055	MANGANESE TOTAL (UG/L AS MN)	34	760.000	20.000	112.353	602.500	92.500	70.000	50.000	27.500
71900	MERCURY, TOT.REC UG/L AS HG	6	--	--	--	--	--	--	--	--
01062	MOLYBDENUM TOTAL (UG/L AS MO)	6	5.000	2.000	3.333	5.000	5.000	3.000	2.000	2.000
01067	NICKEL TOTAL (UG/L AS NI)	6	14.000	2.000	8.500	14.000	12.500	8.000	5.750	2.000
01147	SELENIUM TOTAL (UG/L AS SE)	6	--	--	--	--	--	--	--	--
01077	SILVER TOTAL (UG/L AS AG)	2	--	--	--	--	--	--	--	--
01082	STRONTIUM TOTAL (UG/L AS SR)	5	250.000	190.000	--	--	--	--	--	--
01085	VANADIUM DISSOLV (UG/L AS V)	6	2.000	0.000	1.000	2.000	1.625	1.250	0.000	0.000
01092	ZINC TOTAL (UG/L AS ZN)	6	--	--	--	--	--	--	--	--
34795	ANTIMONY BM<63 W UG/G	2	0.800	0.300	--	--	--	--	--	--
34800	ARSENIC BM<63 WS UG/G	2	8.000	7.500	--	--	--	--	--	--
01003	ARSENIC BOT. MAT (UG/G AS AS)	1	0.000	--	--	--	--	--	--	--
34805	BARIUM BM<63 WSF UG/G	2	460.000	420.000	--	--	--	--	--	--
01008	BARIUM BOT. MAT. (UG/G AS BA)	1	0.000	--	--	--	--	--	--	--
34810	BERYLLIUM BM<63 UG/G	2	--	--	--	--	--	--	--	--
01013	BERYLLIUM BOT. M (UG/G AS BE)	1	0.000	--	--	--	--	--	--	--
34816	BISMUTH BM<180WS UG/G	2	--	--	--	--	--	--	--	--
01023	BORON BOT. MAT. (UG/G AS B)	1	0.000	--	--	--	--	--	--	--
01028	CADMIUM BOT. MAT (UG/G AS CD)	1	10.000	--	--	--	--	--	--	--
34825	CADMIUM BM<63 WS UG/G	2	0.400	0.200	--	--	--	--	--	--
34835	CERIUM BM<63 WSF UG/G	2	59.000	46.000	--	--	--	--	--	--
34840	CHROMIUM BM<63 W UG/G	2	50.000	45.000	--	--	--	--	--	--
01029	CHROMIUM TOTAL B (UG/G AS CR)	1	10.000	--	--	--	--	--	--	--
34845	COBALT BM<63 WSF UG/G	2	9.000	9.000	--	--	--	--	--	--
01038	COBALT BOT. MAT. (UG/G AS CO)	1	10.000	--	--	--	--	--	--	--
34850	COPPER BM<63 WSF UG/G	2	13.000	9.000	--	--	--	--	--	--
01043	COPPER BOT. MAT. (UG/G AS CU)	1	10.000	--	--	--	--	--	--	--
34855	EUROPIUM BM<63 W UG/G	2	--	--	--	--	--	--	--	--
34860	GALLIUM BM<63 WS UG/G	2	12.000	10.000	--	--	--	--	--	--
34870	GOLD BM<63 WSF UG/G	2	--	--	--	--	--	--	--	--
34875	HOLMIUM BM<63 WS UG/G	2	--	--	--	--	--	--	--	--
34880	IRON BM<63 WSF PERCENT	2	2.400	2.300	--	--	--	--	--	--
34885	LANTHANUM BM<63 UG/G	2	32.000	26.000	--	--	--	--	--	--
34890	LEAD BM<63 WSF UG/G	2	10.000	9.000	--	--	--	--	--	--

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			Minnesota data, September 1974 through August 1998--Continued							
01052	LEAD TOTAL BOT. (UG/G AS PB)	1	10.000	--	--	--	--	--	--	--
34895	LITHIUM BM<63 WS UG/G	2	25.000	23.000	--	--	--	--	--	--
34905	MANGANESE BM<63 UG/G	2	1100.000	1100.000	--	--	--	--	--	--
34910	MERCURY BM<63 WS UG/G	2	0.020	0.020	--	--	--	--	--	--
71921	MERCURY BTM UG/G AS HG	1	0.000	--	--	--	--	--	--	--
34915	MOLYBDENUM BM<63 UG/G	2	--	--	--	--	--	--	--	--
01063	MOLYBDENUM BOT.M (UG/G AS MO)	1	0.000	--	--	--	--	--	--	--
34920	NEODYMIUM BM<63 UG/G	2	23.000	23.000	--	--	--	--	--	--
34925	NICKEL BM<63 WSF UG/G	2	20.000	19.000	--	--	--	--	--	--
01068	NICKEL BOT. MAT. (UG/G AS NI)	1	10.000	--	--	--	--	--	--	--
34930	NIOBIUM BM<63 WS UG/G	2	7.000	6.000	--	--	--	--	--	--
34945	SCANDIUM BM<63 W UG/G	2	7.000	7.000	--	--	--	--	--	--
34950	SELENIUM BM<63 W UG/G	2	3.400	0.600	--	--	--	--	--	--
01148	SELENIUM BOT. MA (UG/G AS SE)	1	0.000	--	--	--	--	--	--	--
34955	SILVER BM<63 WSF UG/G	2	0.200	0.100	--	--	--	--	--	--
01078	SILVER BOT. MAT. (UG/G AS AG)	1	0.000	--	--	--	--	--	--	--
34965	STRONTIUM BM<63 UG/G	2	190.000	180.000	--	--	--	--	--	--
01083	STRONTIUM BOT. M (UG/G AS SR)	1	10.000	--	--	--	--	--	--	--
34975	TANTALUM BM<63 W UG/G	2	--	--	--	--	--	--	--	--
34985	TIN BM<63 WSF UG/G	2	--	--	--	--	--	--	--	--
49274	TITANIUM BM <63U (PERCENT)	2	0.250	0.200	--	--	--	--	--	--
35005	VANADIUM BM<63 W UG/G	2	78.000	71.000	--	--	--	--	--	--
35015	YTTERBIUM BM<63 UG/G	2	2.000	2.000	--	--	--	--	--	--
35010	YTTRIUM BM<63 WS UG/G	2	16.000	14.000	--	--	--	--	--	--
35020	ZINC BM<63 WSF UG/G	2	73.000	52.000	--	--	--	--	--	--
01093	ZINC BOTTOM MATE (UG/G AS ZN)	1	10.000	--	--	--	--	--	--	--
49295	1-NAPHTHOL FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
77441	1-NAPHTHOL, WHOL (UG/L)	1	--	--	--	--	--	--	--	--
82183	2,4-DP TOTAL UG/L	1	--	--	--	--	--	--	--	--
39742	2,4,5-T DISSOLVE UG/L	34	--	--	--	--	--	--	--	--
39740	2,4,5-T TOTAL(WA UG/L	2	--	--	--	--	--	--	--	--
39732	2,4-D DISSOLVED UG/L	34	--	--	--	--	--	--	--	--
39730	2,4-D TOTAL (WA UG/L	2	--	--	--	--	--	--	--	--
38746	2,4-DB FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
82660	26DIETHYLANILINE (UG/L)	34	--	--	--	--	--	--	--	--

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82584	3-HYDRX. CARBOFU UG/L	1	--	--	--	--	--	--	--	--
49308	3HYDRXYCARBOFURA (UG/L)	33	--	--	--	--	--	--	--	--
49260	ACETOCHLOR FLTRD (UG/L)	11	--	--	--	--	--	--	--	--
49315	ACIFLUORFEN FLTR (UG/L)	34	--	--	--	--	--	--	--	--
46342	ALACHLOR, DISS, UG/L	34	--	--	--	--	--	--	--	--
49313	ALDICARB SULFONE (UG/L)	33	--	--	--	--	--	--	--	--
82587	ALDICARB SULFONE UG/L	1	--	--	--	--	--	--	--	--
49314	ALDICARB SULFOXI (UG/L)	33	--	--	--	--	--	--	--	--
82586	ALDICARB SULFOXI UG/L	1	--	--	--	--	--	--	--	--
49312	ALDICARB FLTRD (UG/L)	33	--	--	--	--	--	--	--	--
82619	ALDICARB UG/L	1	--	--	--	--	--	--	--	--
39330	ALDRIN TOTAL (WA UG/L	1	0.000	--	--	--	--	--	--	--
34253	ALPHA BHC UG/L	34	--	--	--	--	--	--	--	--
39632	ATRAZINE, DISS, UG/L	34	0.370	--	*0.040	*0.198	*0.043	*0.017	*0.010	*0.002
82673	BENFLURALIN FIL (UG/L)	34	--	--	--	--	--	--	--	--
38711	BENTAZON, FLTRD (UG/L)	34	0.650	--	*0.060	*0.567	*0.020	*0.002	*0.000	*0.000
04029	BROMACIL DISS RE (UG/L)	34	--	--	--	--	--	--	--	--
49311	BROMOXYNIL FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
04028	BUTYLATE DISS RE (UG/L)	34	--	--	--	--	--	--	--	--
49310	CARBARYL FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
82680	CARBARYL FIL 0.7 (UG/L)	34	--	--	--	--	--	--	--	--
39750	CARBARYL UNFILT UG/L	1	--	--	--	--	--	--	--	--
49309	CARBOFURAN FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
82674	CARBOFURAN FIL. (UG/L)	34	--	--	--	--	--	--	--	--
82615	CARBOFURAN UG/L	1	--	--	--	--	--	--	--	--
39786	CARBOPHENOTHION UG/L	1	0.000	--	--	--	--	--	--	--
61188	CHLORAMBEN, METH (UG/L)	34	--	--	--	--	--	--	--	--
39350	CHLORDANE TOT(WA UG/L	1	0.000	--	--	--	--	--	--	--
49306	CHLOROTHALONIL F (UG/L)	33	--	--	--	--	--	--	--	--
38933	CHLORPYRIFOS, DI UG/L	34	--	--	--	--	--	--	--	--
49305	CLOPYRALID FLTRD (UG/L)	33	--	--	--	--	--	--	--	--
04041	CYANAZINE DISS R (UG/L)	34	0.110	--	*0.012	*0.075	*0.012	*0.005	*0.002	*0.001
49304	DACTHAL MONO-ACI (UG/L)	34	--	--	--	--	--	--	--	--
82682	DCPA FIL 0.7 REC (UG/L)	34	--	--	--	--	--	--	--	--
04040	DEETHYL ATRAZINE (UG/L)	34	0.025	--	*0.005	*0.018	*0.005	*0.004	*0.002	*0.001

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39572	DIAZINON DISSOLV UG/L	34	--	--	--	--	--	--	--	--
39570	DIAZINON TOT (WA UG/L	1	0.000	--	--	--	--	--	--	--
82052	DICAMBA,TOTAL UG/L	1	--	--	--	--	--	--	--	--
38442	DICAMBA FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
49303	DICHLOBENIL FLTR (UG/L)	34	--	--	--	--	--	--	--	--
49302	DICHLORPRO FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
39381	DIELDRIN DISSOLV UG/L	34	--	--	--	--	--	--	--	--
39380	DIELDRIN TOT (WA UG/L	1	0.000	--	--	--	--	--	--	--
49301	DINOSEB FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
82677	DISULFOTON FIL. (UG/L)	34	--	--	--	--	--	--	--	--
49300	DIURON FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
49299	DNOC FLTD (UG/L)	34	--	--	--	--	--	--	--	--
39390	ENDRIN UNF REC (UG/L)	1	0.000	--	--	--	--	--	--	--
82668	EPTC FIL 0.7 REC (UG/L)	34	0.013	--	*0.002	*0.012	*0.002	*0.001	*0.000	*0.000
49298	ESFENVALERATE FL (UG/L)	34	--	--	--	--	--	--	--	--
82663	ETHALFLURALIN FI (UG/L)	34	--	--	--	--	--	--	--	--
39398	ETHION TOTAL (WA UG/L	1	0.000	--	--	--	--	--	--	--
82672	ETHOPROP FIL 0.7 (UG/L)	34	--	--	--	--	--	--	--	--
49297	FENURON FLTRD (UG/L)	33	--	--	--	--	--	--	--	--
38811	FLUOMETURON FLT (UG/L)	34	--	--	--	--	--	--	--	--
04095	FONOFOX DISS REC0 (UG/L)	34	--	--	--	--	--	--	--	--
39420	HEPT EPOX TOT(WA UG/L	1	0.000	--	--	--	--	--	--	--
39410	HEPTACHLOR T.(WA UG/L	1	0.000	--	--	--	--	--	--	--
39341	LINDANE DISSOLVE UG/L	34	--	--	--	--	--	--	--	--
39340	LINDANE TOTAL(WA UG/L	1	0.000	--	--	--	--	--	--	--
38478	LINURON FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
82666	LINURON FIL 0.7 (UG/L)	34	--	--	--	--	--	--	--	--
39532	MALATHION DISSOL UG/L	34	--	--	--	--	--	--	--	--
39530	MALATHION TOT(WA UG/L	1	0.000	--	--	--	--	--	--	--
38482	MCPA FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
38487	MCPB FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
38501	METHIOCARB FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
30282	METHIOCARB WTR W UG/L	1	--	--	--	--	--	--	--	--
39051	METHOMYL TOTAL UG/L	1	--	--	--	--	--	--	--	--
49296	METHOMYL FLTRD (UG/L)	33	--	--	--	--	--	--	--	--

Supplement 24. Statistical summary of water-quality data for the Wild Rice River at Twin Valley, Minn., gaging station 05062500, September 1974 through August 1998--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
		Minnesota data, September 1974 through August 1998--Continued								
82686	METHYL AZINPHOS (UG/L)	34	--	--	--	--	--	--	--	--
39600	MET PARTH TOT(WA UG/L	1	0.000	--	--	--	--	--	--	--
82667	METHYL PARATHION (UG/L)	34	--	--	--	--	--	--	--	--
39790	MET TRITH TOT(WA UG/L	1	0.000	--	--	--	--	--	--	--
39415	METOLACHLOR,WAT. UG/L	34	0.075	--	*0.005	*0.036	*0.004	*0.001	*0.001	*0.000
82630	METRIBUZIN,WAT.D UG/L	34	--	--	--	--	--	--	--	--
82671	MOLINATE FIL 0.7 (UG/L)	34	--	--	--	--	--	--	--	--
82684	NAPROPAMIDE FIL (UG/L)	34	--	--	--	--	--	--	--	--
49294	NEBURON FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
49293	NORFLURAZON FLTR (UG/L)	34	--	--	--	--	--	--	--	--
49292	ORYZALIN FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
38866	OXAMYL FLTRD (UG/L)	33	--	--	--	--	--	--	--	--
82613	OXYAMYL UG/L	1	--	--	--	--	--	--	--	--
34653	P,P' DDE DISSOLV (UG/L)	34	--	--	--	--	--	--	--	--
39360	P,P'-DDD UNFLT R UG/L	1	0.000	--	--	--	--	--	--	--
49328	P,P'-DDE BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
39365	P,P'-DDE, TOTAL UG/L	1	0.000	--	--	--	--	--	--	--
39370	P,P'-DDT UNFILT UG/L	1	0.000	--	--	--	--	--	--	--
39542	PARATHION DISSOL UG/L	34	--	--	--	--	--	--	--	--
39540	PARATHION TOT(WA UG/L	1	0.000	--	--	--	--	--	--	--
39516	PCB TOTAL (WA UG/L	1	0.000	--	--	--	--	--	--	--
39250	PCN TOTAL (WA UG/L	1	0.000	--	--	--	--	--	--	--
82669	PEBULATE FIL 0.7 (UG/L)	34	--	--	--	--	--	--	--	--
82683	PENDIMETHALIN F. (UG/L)	34	--	--	--	--	--	--	--	--
82687	PERMETHRIN FIL. (UG/L)	34	--	--	--	--	--	--	--	--
32730	PHENOLS, TOTAL UG/L	1	--	--	--	--	--	--	--	--
82664	PHORATE FIL 0.7 (UG/L)	34	--	--	--	--	--	--	--	--
49291	PICLORAM FLTRD (UG/L)	33	--	--	--	--	--	--	--	--
39720	PICLORAM, TOTAL UG/L	1	--	--	--	--	--	--	--	--
04037	PROMETON DISS RE (UG/L)	34	--	--	--	--	--	--	--	--
82676	PRONAMIDE FIL .7 (UG/L)	34	--	--	--	--	--	--	--	--
04024	PROPACHLOR DISS (UG/L)	34	--	--	--	--	--	--	--	--
82679	PROPANIL FIL 0.7 (UG/L)	34	--	--	--	--	--	--	--	--
82685	PROPARGITE FIL. (UG/L)	34	--	--	--	--	--	--	--	--
39052	PROPHAM TOTAL UG/L	1	--	--	--	--	--	--	--	--

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, September 1974 through August 1998--Continued							
49236	PROPHAM FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
38538	PROPOXUR FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
30296	PROPOXUR, WTR WH UG/L	1	--	--	--	--	--	--	--	--
39762	SILVEX DISSOLVED UG/L	34	--	--	--	--	--	--	--	--
39760	SILVEX TOTAL (WA UG/L	2	--	--	--	--	--	--	--	--
04035	SIMAZINE DISS RE (UG/L)	34	0.008	--	*0.004	*0.008	*0.005	*0.004	*0.003	*0.002
82670	TEBUTHIURON FIL (UG/L)	34	--	--	--	--	--	--	--	--
82665	TERBACIL FIL 0.7 (UG/L)	33	--	--	--	--	--	--	--	--
82675	TERBUFOS FIL 0.7 (UG/L)	34	--	--	--	--	--	--	--	--
82681	THIOBENCARB FIL (UG/L)	34	--	--	--	--	--	--	--	--
39400	TOXAPHENE TOT(WA UG/L	1	0.000	--	--	--	--	--	--	--
82678	TRIALLATE FIL .7 (UG/L)	34	0.210	--	*0.018	*0.120	*0.018	*0.006	*0.001	*0.000
49235	TRICLOPYR FLTRD (UG/L)	34	--	--	--	--	--	--	--	--
82661	TRIFLURALIN FIL (UG/L)	34	0.018	--	*0.005	*0.017	*0.007	*0.004	*0.002	*0.001
49391	22BIQUINOLINE <2 (UG/KG)	2	--	--	--	--	--	--	--	--
49421	3,5-XYLENOL BM < (UG/KG)	2	--	--	--	--	--	--	--	--
49454	4BROMOPHNPHNLETH (UG/KG)	2	--	--	--	--	--	--	--	--
49455	4CHLOROPHNPHNLET (UG/KG)	2	--	--	--	--	--	--	--	--
49411	4HCYPENPHENANTHR (UG/KG)	2	--	--	--	--	--	--	--	--
49437	9,10ANTHRAQUINON (UG/KG)	2	--	--	--	--	--	--	--	--
49398	1METHYL9HFLUOREN (UG/KG)	2	--	--	--	--	--	--	--	--
49399	9H-FLUORENE BM < (UG/KG)	2	--	--	--	--	--	--	--	--
49429	ACENAPHTHENE <2 (UG/KG)	2	--	--	--	--	--	--	--	--
49428	ACENAPHTHYLENE < (UG/KG)	2	--	--	--	--	--	--	--	--
49430	ACRIDINE BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
39333	ALDRIN BTM U UG/KG	1	0.000	--	--	--	--	--	--	--
49319	ALDRIN BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
49275	ALPHA-BHC SURRGT (PERCENT)	2	74.000	48.000	--	--	--	--	--	--
49338	ALPHA-BHC BM <2M (UG/KG)	2	--	--	--	--	--	--	--	--
49435	2METHYLANTHRACEN (UG/KG)	2	--	--	--	--	--	--	--	--
49434	ANTHRACENE BM <2 (UG/KG)	2	--	--	--	--	--	--	--	--
49443	AZOBENZENE BM <2 (UG/KG)	2	--	--	--	--	--	--	--	--
49436	BENZ(A)ANTHRACEN (UG/KG)	2	--	--	--	--	--	--	--	--
49438	BENZENE124TRICHL (UG/KG)	2	--	--	--	--	--	--	--	--
49343	BENZENE HEXACHLO (UG/KG)	2	--	--	--	--	--	--	--	--

Supplement 24. Statistical summary of water-quality data for the Wild Rice River at Twin Valley, Minn., gaging station 05062500, September 1974 through August 1998--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, September 1974 through August 1998--Continued							
49441	BENZENE MDICHLOR (UG/KG)	2	--	--	--	--	--	--	--	--
49444	BENZENE NITRO <2 (UG/KG)	2	--	--	--	--	--	--	--	--
49280	BENZENE NITROD5 (PERCENT)	2	57.000	48.000	--	--	--	--	--	--
49439	BENZENEODICHLORO (UG/KG)	2	--	--	--	--	--	--	--	--
49442	BENZENE PDICHLOR (UG/KG)	2	--	--	--	--	--	--	--	--
49446	BENZENEPNTCHLRNT (UG/KG)	2	--	--	--	--	--	--	--	--
49389	BENZO(A)PYRENE < (UG/KG)	2	--	--	--	--	--	--	--	--
49458	BENZOBFLUORANTHE (UG/KG)	2	--	--	--	--	--	--	--	--
49408	BENZO(GHI)PERYLE (UG/KG)	2	--	--	--	--	--	--	--	--
49397	BENZO(K)FLUORANT (UG/KG)	2	--	--	--	--	--	--	--	--
49468	BENZOCINNOLINE B (UG/KG)	2	--	--	--	--	--	--	--	--
49339	BETA-BHC BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
49279	BIPHENL 2FLUORO (PERCENT)	2	58.000	36.000	--	--	--	--	--	--
49277	BIPHENL 35DICHR (PERCENT)	2	80.000	52.000	--	--	--	--	--	--
49449	CARBAZOLE BM <2M (UG/KG)	2	--	--	--	--	--	--	--	--
39351	CHLORDANE BTM U UG/KG	1	0.000	--	--	--	--	--	--	--
49322	CHLORONEB BM <2M (UG/KG)	2	--	--	--	--	--	--	--	--
49450	CHRYSENE BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
49320	CIS-CHLORDANE BM (UG/KG)	2	--	--	--	--	--	--	--	--
49316	CIS-NONACHLOR BM (UG/KG)	2	--	--	--	--	--	--	--	--
49349	CIS-PERMETHRIN < (UG/KG)	2	--	--	--	--	--	--	--	--
49324	DCPA BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
39571	DIAZINON BTM U UG/KG	1	0.000	--	--	--	--	--	--	--
49461	DBENZ(AH)ANTHRAC (UG/KG)	2	--	--	--	--	--	--	--	--
49331	DIELDRIN BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
39383	DIELDRIN BTM UG/KG	1	0.000	--	--	--	--	--	--	--
49433	NNITRSDIPHNYLAMN (UG/KG)	2	--	--	--	--	--	--	--	--
49431	NNITROSODPRPYLAM (UG/KG)	2	--	--	--	--	--	--	--	--
49332	ENDOSULFAN I BM (UG/KG)	2	--	--	--	--	--	--	--	--
39393	ENDRIN BTM UG/KG	1	0.000	--	--	--	--	--	--	--
49335	ENDRIN BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
39399	ETHION BTM UG/KG	1	0.000	--	--	--	--	--	--	--
49466	FLUORANTHENE BM (UG/KG)	2	--	--	--	--	--	--	--	--
49342	HEPTACHLOR EPOXI (UG/KG)	2	--	--	--	--	--	--	--	--
39423	HEPT EPOX BTM U UG/KG	1	0.000	--	--	--	--	--	--	--

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39413	HEPTACHLOR BTM U UG/KG	1	0.000	--	--	--	--	--	--	--
49341	HEPTA-CHLOR BM < (UG/KG)	2	--	--	--	--	--	--	--	--
49390	1MINDENO123CDPYR (UG/KG)	2	--	--	--	--	--	--	--	--
49344	ISODRIN BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
49400	ISOPHORONE BM <2 (UG/KG)	2	--	--	--	--	--	--	--	--
49394	ISOQUINOLINE BM (UG/KG)	2	--	--	--	--	--	--	--	--
49345	LINDANE BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
39343	LINDANE BTM U UG/KG	1	0.000	--	--	--	--	--	--	--
39531	MALATHION BTM U UG/KG	1	0.000	--	--	--	--	--	--	--
49422	4-CHLORO M-CRESO (UG/KG)	2	--	--	--	--	--	--	--	--
49401	METHANE2CHLRETHO (UG/KG)	2	--	--	--	--	--	--	--	--
49347	METHOXYCHLOR O,P (UG/KG)	2	--	--	--	--	--	--	--	--
49346	METHOXYCHLOR P,P (UG/KG)	2	--	--	--	--	--	--	--	--
39601	MET PARTH BTM U UG/KG	1	0.000	--	--	--	--	--	--	--
39791	MET TRITH BTM U UG/KG	1	0.000	--	--	--	--	--	--	--
49348	MIREX BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
49403	12DIMETHLNAPHTHA (UG/KG)	2	--	--	--	--	--	--	--	--
49404	16DIMETHLNAPHTHA (UG/KG)	2	--	--	--	--	--	--	--	--
49405	236TRIMTHNAPHTHA (UG/KG)	2	--	--	--	--	--	--	--	--
49406	26DIMETHLNAPHTHA (UG/KG)	2	--	--	--	--	--	--	--	--
49407	2-CHLORONAPHTHAL (UG/KG)	2	--	--	--	--	--	--	--	--
49948	NAPHTH, 2ETHYL B UG/KG	2	--	--	--	--	--	--	--	--
49402	NAPHTHALENE BM < (UG/KG)	2	--	--	--	--	--	--	--	--
49325	O,P'-DDD BM <2MM (UG/KG)	1	--	--	--	--	--	--	--	--
49327	O,P'-DDE BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
49329	O,P'-DDT BM <2MM (UG/KG)	1	--	--	--	--	--	--	--	--
49276	OCTCHLR BIPHENL (PERCENT)	2	99.000	52.000	--	--	--	--	--	--
00553	OIL AND GREASE B (MG/KG)	1	0.000	--	--	--	--	--	--	--
49318	OXYCHLORDANE BM (UG/KG)	2	--	--	--	--	--	--	--	--
39363	P,P'-DDD BEDMAT UG/KG	1	0.000	--	--	--	--	--	--	--
49326	P,P'-DDD BM <2MM (UG/KG)	1	--	--	--	--	--	--	--	--
39368	P,P'-DDE BED MAT UG/KG	1	0.000	--	--	--	--	--	--	--
39373	P,P'-DDT BTM UG/KG	1	0.000	--	--	--	--	--	--	--
49330	P,P'-DDT BM <2MM (UG/KG)	1	--	--	--	--	--	--	--	--
39541	PARATHION BTM UG UG/KG	1	0.000	--	--	--	--	--	--	--

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39519	PCB BTM UG/KG	1	0.000	--	--	--	--	--	--	--
49459	PCB BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
49451	P-CRESOL BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
49460	PENTACHLOROANISO (UG/KG)	2	--	--	--	--	--	--	--	--
49410	1METHYLPHENANTHR (UG/KG)	2	--	--	--	--	--	--	--	--
49409	PHENANTHRENE BM (UG/KG)	2	--	--	--	--	--	--	--	--
49393	PHENANTHRIDINE < (UG/KG)	2	--	--	--	--	--	--	--	--
49413	PHENOL BM <2MM (UG/KG)	2	20.000	10.000	--	--	--	--	--	--
49424	PHENOL C8-ALKYL- (UG/KG)	2	--	--	--	--	--	--	--	--
49467	PHENOL 2CHLORO B (UG/KG)	2	--	--	--	--	--	--	--	--
49426	BS2ETHHXLPHTHALA (UG/KG)	2	70.000	50.000	--	--	--	--	--	--
49427	BUTYLBNZYLPHTHAL (UG/KG)	2	60.000	40.000	--	--	--	--	--	--
49381	DIBUTYLPHTHALATE (UG/KG)	2	70.000	60.000	--	--	--	--	--	--
49383	PHTHALATE DIETHY (UG/KG)	2	40.000	20.000	--	--	--	--	--	--
49384	DIMETHLYPHTHALAT (UG/KG)	2	--	--	--	--	--	--	--	--
49382	PHTHALATE DIOCTY (UG/KG)	2	--	--	--	--	--	--	--	--
49388	PYRENE 1-METHYL (UG/KG)	2	--	--	--	--	--	--	--	--
49387	PYRENE BM <2MM (UG/KG)	2	--	--	--	--	--	--	--	--
49392	QUINOLINE BM <2M (UG/KG)	2	--	--	--	--	--	--	--	--
49278	TERPHENYL,D14- S (PERCENT)	2	68.000	50.000	--	--	--	--	--	--
49452	THIOPHENE,DIBENZ (UG/KG)	2	--	--	--	--	--	--	--	--
49395	24DINITROTOLUENE (UG/KG)	2	--	--	--	--	--	--	--	--
49396	26DINITROTOLUENE (UG/KG)	2	--	--	--	--	--	--	--	--
39403	TOXAPHENE BTM UG/KG	1	0.000	--	--	--	--	--	--	--
49351	TOXAPHENE BM <2M (UG/KG)	2	--	--	--	--	--	--	--	--
49321	T-CHLORDANE BM < (UG/KG)	2	--	--	--	--	--	--	--	--
49317	T-NONACHLOR BM < (UG/KG)	2	--	--	--	--	--	--	--	--
49350	TRANS-PERMETHRIN (UG/KG)	1	--	--	--	--	--	--	--	--
39787	TRITHION BTM UG/KG	1	0.000	--	--	--	--	--	--	--
34980	THORIUM BM<63 WS UG/G	2	--	--	--	--	--	--	--	--
35000	URANIUM BM<63 WS UG/G	2	3.200	2.500	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	42	100.000	16.000	82.571	99.000	95.000	88.000	75.250	38.300
80154	CONCENTRATION,S. MG/L	63	984.000	5.000	122.968	468.000	163.000	73.000	23.000	5.200
80155	DISCHARGE,SUSP.S T/DAY	53	2710.000	1.300	360.479	1575.000	565.000	122.000	22.500	2.250
80294	BED MAT FD DW<.0 PERCENT <.002M	1	8.000	--	--	--	--	--	--	--

Supplement 24. Statistical summary of water-quality data for the Wild Rice River at Twin Valley, Minn., gaging station 05062500, September 1974 through August 1998--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, September 1974 through August 1998--Continued							
80157	SED-BED-FALL-D-. %	2	9.000	8.000	--	--	--	--	--	--
80293	BED MAT FD DW<.0 PERCENT> .008M	1	9.000	--	--	--	--	--	--	--
80282	BED MAT FD DW<.0 PERCENT <.016M	1	12.000	--	--	--	--	--	--	--
80283	BED MAT FD DW<.0 PERCENT <.031M	1	18.000	--	--	--	--	--	--	--
80158	SED-BED-FALL-D-. %	3	31.000	0.000	--	--	--	--	--	--
80159	SED-BED-FALL-D-. %	3	68.000	1.000	--	--	--	--	--	--
80160	SED-BED-FALL-D-. %	3	93.000	11.000	--	--	--	--	--	--
80161	SED-BED-FALL-D-. %	3	99.000	40.000	--	--	--	--	--	--
80162	SED-BED-FALL-D-1 %	3	100.000	68.000	--	--	--	--	--	--
80164	SED-BED-SIEVE-.0 %	1	1.000	--	--	--	--	--	--	--
80165	SED-BED-SIEVE-.1 %	1	5.000	--	--	--	--	--	--	--
80166	SED-BED-SIEVE-.2 %	1	17.000	--	--	--	--	--	--	--
80167	SED-BED-SIEVE-.5 %	1	27.000	--	--	--	--	--	--	--
80168	SED-BED-SIEVE-1. %	1	33.000	--	--	--	--	--	--	--
80169	SED-BED-SIEVE-2. %	3	100.000	42.000	--	--	--	--	--	--
80170	SED-BED-SIEVE-4. %	2	97.000	59.000	--	--	--	--	--	--
80171	SED-BED-SIEVE-8. %	2	99.000	78.000	--	--	--	--	--	--
80172	SED-BED-SIEVE-16 %	2	100.000	89.000	--	--	--	--	--	--
80173	SED-BED-SIEVE-32 %	1	100.000	--	--	--	--	--	--	--
95100	CONVERSION FACTO	114	287.000	1.800	30.768	154.400	25.175	14.050	9.675	3.300
99869	SAMP VOL SCHED 1 (ML)	1	954.000	--	--	--	--	--	--	--
99857	SAMP VOL SCHED 2 (ML)	12	939.000	757.000	876.583	939.000	907.250	880.500	852.250	757.000
99853	SAMPLE WEIGHT S2 (G)	2	25.000	25.000	--	--	--	--	--	--
99824	SET NO SCHED 250 (NUMBER)	2	95.310	32.100	--	--	--	--	--	--
99825	SET NO SCHED 250 (NUMBER)	2	93032.000	95.310	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 25. Statistical summary of water-quality data for the Wild Rice River at Hendrum, Minn., gaging station 05064000, July 1978 through September 1999

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	Minnesota data, July 1978 through September 1999									
00065	GAGE HEIGHT (FEET)	13	26.900	4.470	16.698	26.900	23.385	18.640	9.395	4.470
00060	DISCHARGE CFS	21	6520.000	75.000	2367.667	6497.000	4195.000	1610.000	401.500	77.000
00061	DISCHARGE, INST. CFS	56	6690.000	29.000	1369.554	6456.500	2022.500	499.000	72.000	30.000
00310	BOD 5-DAY AT 20 (MG/L)	11	5.100	0.400	2.600	5.100	4.800	1.800	1.300	0.400
70303	RESIDUE DIS TON/ T/AC-FT	2	0.600	0.300	--	--	--	--	--	--
70302	DISSOLVED SOLIDS TONS/DAY	1	1460.000	--	--	--	--	--	--	--
70300	RESIDUE DIS 180C MG/L	2	451.000	250.000	--	--	--	--	--	--
70301	DISSOLVED SOLIDS MG/L	2	461.000	217.000	--	--	--	--	--	--
00070	TURBIDITY (JCU)	20	100.000	1.000	21.700	98.250	30.000	15.000	5.000	1.100
00076	TURBIDITY (NTU)	27	540.000	10.000	90.259	428.000	110.000	35.000	25.000	14.000
00025	AIR PRESSURE (MM OF HG)	11	760.000	726.000	738.182	760.000	742.000	737.000	733.000	726.000
00300	OXYGEN DISSOLVED (MG/L)	45	12.800	2.300	7.896	12.140	9.450	7.700	6.000	4.690
00301	OXYGEN DIS. PERC % OF SATURATIO	45	99.000	16.000	78.107	95.400	89.200	83.000	73.700	36.200
00400	PH, WH, FIELD (STANDARD UNIT	47	9.400	7.300	8.081	9.060	8.300	8.200	7.800	7.400
00403	PH, WH, LABORATO (STANDARD UNIT	2	8.000	7.500	--	--	--	--	--	--
90095	SPECIFIC CONDUCT MICROSIEMENS/C	2	756.000	372.000	--	--	--	--	--	--
00095	SPECIFIC CONDUCT US/CM @ 25C	48	760.000	245.000	508.667	727.500	540.000	508.500	456.750	352.300
00020	AIR TEMPERATURE DEGREES C	33	395.000	-21.000	26.667	143.700	25.000	20.000	7.250	-17.500
00010	WATER TEMPERATUR (DEGREES C)	47	27.000	0.000	14.336	26.060	22.000	16.000	6.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	1	7.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	2	393.000	171.000	--	--	--	--	--	--
00915	CALCIUM DISSOLVE (MG/L AS CA)	2	93.000	42.000	--	--	--	--	--	--
00925	MAGNESIUM DISSOL (MG/L AS MG)	2	39.000	16.000	--	--	--	--	--	--
00935	POTASSIUM DISSOL (MG/L AS K)	2	4.600	4.500	--	--	--	--	--	--
00931	SODIUM ADSORPTIO (RATIO)	2	0.395	0.173	--	--	--	--	--	--
00930	SODIUM DISSOLVED (MG/L AS NA)	2	18.000	5.200	--	--	--	--	--	--
00932	SODIUM, PERCENT PERCENT	2	8.950	6.030	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	1	126.000	--	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	1	386.000	--	--	--	--	--	--	--
00453	BICARBONATE,DIS, (MG/L AS HCO3)	1	471.000	--	--	--	--	--	--	--
00452	CARBONATE,DIS,IT (MG/L AS CO3)	1	0.000	--	--	--	--	--	--	--
00940	CHLORIDE DISSOLV (MG/L AS CL)	36	8.300	2.900	4.375	8.130	4.775	4.000	3.425	2.985
00950	FLUORIDE DISSOLV (MG/L AS F)	2	0.200	0.200	--	--	--	--	--	--
00955	SILICA DISSOLVED (MG/L AS SIO2)	2	24.000	11.000	--	--	--	--	--	--
00945	SULFATE DISSOLVE (MG/L AS SO4)	2	51.000	40.000	--	--	--	--	--	--

Supplement 25. Statistical summary of water-quality data for the Wild Rice River at Hendrum, Minn., gaging station 05064000, July 1978 through September 1999--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, July 1978 through September 1999--Continued							
00608	NITROGEN AMMONIA (MG/L AS N)	2	0.170	0.080	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	2	0.800	0.800	--	--	--	--	--	--
00625	NITROGEN AMM+ORG (MG/L AS N)	35	2.000	0.330	0.946	1.840	1.000	0.880	0.760	0.554
71846	NITR. NH4 AS NH4 MG/L AS NH4	2	0.219	0.103	--	--	--	--	--	--
00610	NITROGEN AMMONIA (MG/L AS N)	34	0.340	0.010	0.075	0.288	0.095	0.050	0.020	0.010
71845	NITROGEN, NH4, T MG/L AS NH4	33	0.440	0.010	0.098	0.377	0.130	0.060	0.030	0.010
00602	NITROGEN DISSOLV (MG/L AS N)	2	1.800	1.130	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	1	0.950	--	--	--	--	--	--	--
71851	NITR. NO3 AS NO3 MG/L AS NO3	1	4.210	--	--	--	--	--	--	--
00620	NITROGEN NITRATE MG/L AS N	34	2.400	0.000	0.331	2.175	0.295	0.085	0.018	0.000
00631	NO2 + NO3 DISSOL (MG/L AS N)	2	1.000	0.330	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	34	2.500	--	*0.348	*2.275	*0.250	*0.100	*0.028	*0.005
71856	NITR. NO2 AS NO2 MG/L AS NO2	1	0.164	--	--	--	--	--	--	--
00613	NITROGEN,NITRITE MG/L AS N	2	--	--	--	--	--	--	--	--
00615	NITROGEN,NITRITE MG/L AS N	34	0.140	--	*0.021	*0.132	*0.020	*0.010	*0.005	*0.002
00607	NITROGEN ORGANIC (MG/L AS N)	2	0.720	0.630	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	35	1.920	0.270	0.871	1.744	0.980	0.760	0.680	0.502
00600	NITROGEN TOTAL (MG/L AS N)	35	4.300	0.380	1.310	3.420	1.500	1.000	0.800	0.580
71887	NITROGEN, TOTAL MG/L AS NO3	34	19.000	1.700	5.591	15.250	6.025	4.400	3.475	2.525
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	2	0.184	0.031	--	--	--	--	--	--
00650	PHOSPHATE TOTAL (MG/L AS PO4)	12	0.890	0.150	0.369	0.890	0.400	0.295	0.198	0.150
00666	PHOSPHORUS DISS. (MG/L AS P)	36	0.190	0.010	0.044	0.156	0.050	0.030	0.020	0.010
00671	PHOSPHORUS ORTHO (MG/L AS P)	2	0.060	0.010	--	--	--	--	--	--
00665	PHOSPHORUS TOTAL (MG/L AS P)	35	0.410	0.010	0.101	0.346	0.120	0.070	0.050	0.010
71886	PHOSPHORUS TOT P MG/L AS PO4	16	0.890	0.150	0.375	0.890	0.423	0.325	0.250	0.150
00405	CARBON DIOXIDE D (MG/L AS CO2)	1	6.100	--	--	--	--	--	--	--
01005	BARIUM DISSOLVED (UG/L AS BA)	1	98.000	--	--	--	--	--	--	--
01010	BERYLLIUM DISSOL (UG/L AS BE)	1	--	--	--	--	--	--	--	--
01025	CADMIUM DISSOLVE (UG/L AS CD)	1	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	1	--	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	1	--	--	--	--	--	--	--	--
01040	COPPER DISSOLVED (UG/L AS CU)	1	--	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	2	50.000	20.000	--	--	--	--	--	--
01049	LEAD DISSOLVED (UG/L AS PB)	1	--	--	--	--	--	--	--	--
01130	LITHIUM DISSOLVE (UG/L AS LI)	1	24.000	--	--	--	--	--	--	--

Supplement 25. Statistical summary of water-quality data for the Wild Rice River at Hendrum, Minn., gaging station 05064000, July 1978 through September 1999--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, July 1978 through September 1999--Continued							
01056	MANGANESE DISSOL (UG/L AS MN)	2	33.000	5.000	--	--	--	--	--	--
01060	MOLYBDENUM DISSO (UG/L AS MO)	1	--	--	--	--	--	--	--	--
01065	NICKEL DISSOLVED (UG/L AS NI)	1	--	--	--	--	--	--	--	--
01075	SILVER DISSOLVED (UG/L AS AG)	1	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	1	280.000	--	--	--	--	--	--	--
01085	VANADIUM DISSOLV (UG/L AS V)	1	--	--	--	--	--	--	--	--
01090	ZINC DISSOLVED (UG/L AS ZN)	1	23.000	--	--	--	--	--	--	--
49295	1-NAPHTHOL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39742	2,4,5-T DISSOLVE UG/L	1	--	--	--	--	--	--	--	--
39732	2,4-D DISSOLVED UG/L	1	0.190	--	--	--	--	--	--	--
38746	2,4-DB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82660	26DIETHYLANILINE (UG/L)	1	--	--	--	--	--	--	--	--
49308	3HYDRXYCARBOFURA (UG/L)	1	--	--	--	--	--	--	--	--
49260	ACETOCHLOR FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49315	ACIFLUORFEN FLTR (UG/L)	1	0.170	--	--	--	--	--	--	--
46342	ALACHLOR, DISS, UG/L	1	0.015	--	--	--	--	--	--	--
49313	ALDICARB SULFONE (UG/L)	1	--	--	--	--	--	--	--	--
49314	ALDICARB SULFOXI (UG/L)	1	--	--	--	--	--	--	--	--
49312	ALDICARB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
34253	ALPHA BHC UG/L	1	--	--	--	--	--	--	--	--
39632	ATRAZINE, DISS, UG/L	1	0.130	--	--	--	--	--	--	--
82673	BENFLURALIN FIL (UG/L)	1	--	--	--	--	--	--	--	--
38711	BENTAZON, FLTRD (UG/L)	1	0.140	--	--	--	--	--	--	--
04029	BROMACIL DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
49311	BROMOXYNIL FLTRD (UG/L)	1	0.100	--	--	--	--	--	--	--
04028	BUTYLATE DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
49310	CARBARYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82680	CARBARYL FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
49309	CARBOFURAN FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82674	CARBOFURAN FIL. (UG/L)	1	--	--	--	--	--	--	--	--
61188	CHLORAMBEN, METH (UG/L)	1	--	--	--	--	--	--	--	--
49306	CHLOROTHALONIL F (UG/L)	1	--	--	--	--	--	--	--	--
38933	CHLORPYRIFOS, DI UG/L	1	--	--	--	--	--	--	--	--
49305	CLOPYRALID FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04041	CYANAZINE DISS R (UG/L)	1	0.098	--	--	--	--	--	--	--

Supplement 25. *Statistical summary of water-quality data for the Wild Rice River at Hendrum, Minn., gaging station 05064000, July 1978 through September 1999--Continued*

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, July 1978 through September 1999--Continued							
49304	DACTHAL MONO-ACI (UG/L)	1	--	--	--	--	--	--	--	--
82682	DCPA FIL 0.7 REC (UG/L)	1	--	--	--	--	--	--	--	--
04040	DEETHYL ATRAZINE (UG/L)	1	0.022	--	--	--	--	--	--	--
39572	DIAZINON DISSOLV UG/L	1	--	--	--	--	--	--	--	--
38442	DICAMBA FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49303	DICHLOBENIL FLTR (UG/L)	1	--	--	--	--	--	--	--	--
49302	DICHLORPRO FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39381	DIELDRIN DISSOLV UG/L	1	--	--	--	--	--	--	--	--
49301	DINOSEB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82677	DISULFOTON FIL. (UG/L)	1	--	--	--	--	--	--	--	--
49300	DIURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49299	DNOC FLTD (UG/L)	1	--	--	--	--	--	--	--	--
82668	EPTC FIL 0.7 REC (UG/L)	1	--	--	--	--	--	--	--	--
49298	ESFENVALERATE FL (UG/L)	1	--	--	--	--	--	--	--	--
82663	ETHALFLURALIN FI (UG/L)	1	--	--	--	--	--	--	--	--
82672	ETHOPROP FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
49297	FENURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38811	FLUOMETURON FLT (UG/L)	1	--	--	--	--	--	--	--	--
04095	FONOFOX DISS REC (UG/L)	1	--	--	--	--	--	--	--	--
39341	LINDANE DISSOLVE UG/L	1	--	--	--	--	--	--	--	--
38478	LINURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82666	LINURON FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
39532	MALATHION DISSOL UG/L	1	--	--	--	--	--	--	--	--
38482	MCPA FLTRD (UG/L)	1	0.120	--	--	--	--	--	--	--
38487	MCPB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38501	METHIOCARB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49296	METHOMYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82686	METHYL AZINPHOS (UG/L)	1	--	--	--	--	--	--	--	--
82667	METHYL PARATHION (UG/L)	1	--	--	--	--	--	--	--	--
39415	METOLACHLOR,WAT. UG/L	1	0.012	--	--	--	--	--	--	--
82630	METRIBUZIN,WAT.D UG/L	1	0.004	--	--	--	--	--	--	--
82671	MOLINATE FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82684	NAPROPAMIDE FIL (UG/L)	1	--	--	--	--	--	--	--	--
49294	NEBURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49293	NORFLURAZON FLTR (UG/L)	1	--	--	--	--	--	--	--	--

Supplement 25. Statistical summary of water-quality data for the Wild Rice River at Hendrum, Minn., gaging station 05064000, July 1978 through September 1999--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, July 1978 through September 1999--Continued							
49292	ORYZALIN FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38866	OXAMYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
34653	P,P' DDE DISSOLV (UG/L)	1	--	--	--	--	--	--	--	--
39542	PARATHION DISSOL UG/L	1	--	--	--	--	--	--	--	--
82669	PEBULATE FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82683	PENDIMETHALIN F. (UG/L)	1	0.004	--	--	--	--	--	--	--
82687	PERMETHRIN FIL. (UG/L)	1	--	--	--	--	--	--	--	--
82664	PHORATE FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
49291	PICLORAM FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04037	PROMETON DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
82676	PRONAMIDE FIL .7 (UG/L)	1	--	--	--	--	--	--	--	--
04024	PROPACHLOR DISS (UG/L)	1	--	--	--	--	--	--	--	--
82679	PROPANIL FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82685	PROPARGITE FIL. (UG/L)	1	--	--	--	--	--	--	--	--
49236	PROPHAM FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38538	PROPOXUR FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39762	SILVEX DISSOLVED UG/L	1	--	--	--	--	--	--	--	--
04035	SIMAZINE DISS RE (UG/L)	1	0.007	--	--	--	--	--	--	--
82670	TEBUTHIURON FIL (UG/L)	1	--	--	--	--	--	--	--	--
82665	TERBACIL FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82675	TERBUFOS FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82681	THIOBENCARB FIL (UG/L)	1	--	--	--	--	--	--	--	--
82678	TRIALLATE FIL .7 (UG/L)	1	0.038	--	--	--	--	--	--	--
49235	TRICLOPYR FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82661	TRIFLURALIN FIL (UG/L)	1	0.018	--	--	--	--	--	--	--
82082	HYDROGEN 2 / 1 R RATIO PER MIL	1	-84.000	--	--	--	--	--	--	--
82085	OXYGEN 18 / 16 R RATIO PER MIL	1	-10.950	--	--	--	--	--	--	--
07000	TRITIUM TOTAL (PCI/L)	1	49.000	--	--	--	--	--	--	--
75985	TRITIUM PREC EST PCI/L	1	5.800	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	5	99.000	91.000	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	32	792.000	20.000	191.094	598.950	223.500	131.000	93.000	21.950
80155	DISCHARGE,SUSP.S T/DAY	26	5670.000	10.000	1200.846	5043.499	1680.000	644.500	127.000	11.750

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 26. Statistical summary of water-quality data for the Red River of the North at Halstad, N. Dak., gaging station 05064500, July 1961 through July 2001

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, July 1961 through July 2001							
00065	GAGE HEIGHT (FEET)	14	28.200	0.200	7.109	28.200	7.193	5.785	4.405	0.200
00060	DISCHARGE CFS	71	25800.000	132.000	4507.634	16800.006	6070.000	1870.000	887.000	235.400
00061	DISCHARGE, INST. CFS	326	69200.000	23.000	5448.294	24500.000	6090.000	1305.000	510.750	127.850
00080	COLOR PLATINUM-COBAL	4	29.000	16.000	--	--	--	--	--	--
00540	RESIDUE FIXED (MG/L)	398	0.000	--	--	--	--	--	--	--
00515	RESIDUE DISSOLVE (MG/L)	1	380.000	--	--	--	--	--	--	--
00530	RESIDUE TOTAL (MG/L)	1	192.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	398	0.950	0.000	0.238	0.740	0.550	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	398	40000.000	0.000	1203.136	6521.487	786.000	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	163	695.000	176.000	428.209	590.000	497.000	425.000	367.000	252.200
70301	DISSOLVED SOLIDS MG/L	398	843.000	0.000	168.942	524.250	383.250	0.000	0.000	0.000
00070	TURBIDITY (JCU)	4	90.000	7.000	--	--	--	--	--	--
00076	TURBIDITY (NTU)	112	480.000	1.000	48.054	141.000	73.750	27.500	6.625	2.165
61028	TURBIDITY, FIELD (NTU)	1	510.000	--	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	96	785.000	710.000	746.469	770.000	760.000	743.000	738.000	725.850
00300	OXYGEN DISSOLVED (MG/L)	135	16.200	1.900	8.947	13.220	11.000	9.000	6.800	4.040
00301	OXYGEN DIS. PERC % OF SATURATIO	398	144.000	0.000	23.389	97.000	61.250	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	186	9.200	5.900	8.094	8.700	8.300	8.100	7.900	7.500
00403	PH, WH, LABORATO (STANDARD UNIT	98	8.700	7.300	7.967	8.400	8.125	8.000	7.800	7.495
90095	SPECIFIC CONDUCT MICROSIEMENS/C	109	1090.000	299.000	680.541	914.000	785.500	686.000	588.000	390.500
00095	SPECIFIC CONDUCT US/CM @ 25C	375	1650.000	245.000	636.661	940.400	750.000	638.000	522.000	303.000
00020	AIR TEMPERATURE DEGREES C	195	33.000	-25.000	10.190	28.000	21.500	11.000	2.000	-13.800
00010	WATER TEMPERATUR (DEGREES C)	381	28.000	0.000	10.146	25.000	19.500	8.000	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	398	190.000	0.000	8.445	70.050	0.000	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	398	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	398	150.000	0.000	9.214	78.050	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	398	78.000	0.000	1.766	5.300	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	398	480.000	0.000	118.015	370.000	272.500	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	163	96.000	28.000	60.656	80.600	69.000	60.000	52.000	39.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	163	58.000	12.000	33.141	45.800	39.000	33.000	29.000	17.000
00935	POTASSIUM DISSOL (MG/L AS K)	163	18.000	3.900	7.391	10.000	8.400	7.100	6.200	4.900
00931	SODIUM ADSORPTIO (RATIO)	398	2.000	0.000	0.319	1.000	0.700	0.000	0.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	17	69.000	21.000	36.294	69.000	41.500	35.000	28.000	21.000
00930	SODIUM DISSOLVED (MG/L AS NA)	163	77.000	7.600	31.342	58.200	38.000	30.000	22.000	11.400
00932	SODIUM, PERCENT PERCENT	398	35.000	0.000	7.472	24.000	16.000	0.000	0.000	0.000

Supplement 26. Statistical summary of water-quality data for the Red River of the North at Halstad, N. Dak., gaging station 05064500, July 1961 through July 2001--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, July 1961 through July 2001--Continued								
00435	ACIDITY TOTAL (MG/L AS CACO3	398	0.000	--	--	--	--	--	--	--
99430	ANC, CARB, IT, F MG/L	6	356.000	198.000	244.167	356.000	266.000	227.500	214.500	198.000
90410	ANC, TIT. 4.5, L MG/L AS CACO3	108	350.000	104.000	231.398	317.300	263.000	230.000	200.250	135.450
00418	ALKALINITY,DIS,F (MG/L AS CACO3	24	355.000	143.000	241.833	342.500	285.250	236.000	206.250	152.500
39086	ALKALINITY,DIS,I (MG/L AS CACO3	43	355.000	100.000	232.698	327.200	278.000	222.000	196.000	136.200
00410	ANC, FET, FIELD (MG/L AS CACO3	80	690.000	89.000	228.150	310.000	254.000	224.000	198.500	116.700
00419	ANC, IT, FIELD (MG/L AS CACO3	12	310.000	185.000	248.833	310.000	273.750	246.500	228.250	185.000
99440	BICARBONATE MG/L AS HCO3	6	434.000	242.000	299.167	434.000	324.500	281.500	261.500	242.000
00453	BICARBONATE,DIS, (MG/L AS HCO3)	42	433.000	122.000	277.833	400.650	331.750	267.500	232.000	166.050
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	27	380.000	18.000	221.593	364.000	280.000	250.000	160.000	20.800
00450	ANC BICARB IT FI (MG/L AS HCO3)	11	378.000	225.000	297.545	378.000	336.000	290.000	270.000	225.000
99445	CARBONATE MG/L AS CO3	6	0.000	--	--	--	--	--	--	--
00452	CARBONATE,DIS,IT (MG/L AS CO3)	43	23.000	0.000	3.140	15.200	6.000	0.000	0.000	0.000
00445	ANC CARB FET FIE (MG/L AS CO3)	26	17.000	0.000	0.923	13.500	0.000	0.000	0.000	0.000
00447	ANC CARB IT FIEL (MG/L AS CO3)	11	19.000	0.000	2.909	19.000	4.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	163	52.000	4.000	17.854	35.800	22.000	16.000	12.000	7.320
00950	FLUORIDE DISSOLV (MG/L AS F)	163	0.700	0.100	0.229	0.400	0.300	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	153	27.000	3.800	14.184	21.000	17.000	14.000	12.000	6.770
00945	SULFATE DISSOLVE (MG/L AS SO4)	163	240.000	36.000	108.791	190.000	130.000	110.000	80.000	46.200
00608	NITROGEN AMMONIA (MG/L AS N)	105	1.600	0.000	0.236	1.052	0.295	0.120	0.060	0.020
99894	NH3+ORG N DIS JI	1	0.800	--	--	--	--	--	--	--
99892	NH3+ORG N MOD JI	1	1.500	--	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	61	2.900	0.500	1.108	2.380	1.300	1.000	0.800	0.700
00624	NITROGEN SUSPEND (MG/L AS N)	43	3.500	0.000	0.511	1.780	0.700	0.380	0.100	0.000
00625	NITROGEN AMM+ORG (MG/L AS N)	124	19.000	0.700	1.646	3.000	1.700	1.300	1.100	0.800
71846	NITR. NH4 AS NH4 MG/L AS NH4	398	2.060	0.000	0.080	0.440	0.030	0.000	0.000	0.000
00610	NITROGEN AMMONIA (MG/L AS N)	82	1.700	0.010	0.298	1.185	0.373	0.190	0.047	0.010
71845	NITROGEN, NH4, T MG/L AS NH4	398	2.190	0.000	0.078	0.501	0.000	0.000	0.000	0.000
00602	NITROGEN DISSOLV (MG/L AS N)	398	6.500	0.000	0.195	1.700	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	398	4.630	0.000	0.111	0.610	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	398	20.500	0.000	0.619	3.904	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	398	0.580	0.000	0.007	0.000	0.000	0.000	0.000	0.000
71850	N, NITRATE TOTAL MG/L AS NO3	3	5.200	0.400	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	106	4.900	--	*0.574	*1.765	*0.632	*0.400	*0.218	*0.077
00630	NO2 + NO3 TOTAL (MG/L AS N)	397	1.300	0.000	0.061	0.500	0.000	0.000	0.000	0.000

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			North Dakota data, July 1961 through July 2001--Continued							
71856	NITR. NO2 AS NO2 MG/L AS NO2	398	0.887	0.000	0.014	0.099	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	62	0.270	--	*0.029	*0.090	*0.030	*0.020	*0.009	*0.002
00615	NITROGEN,NITRITE MG/L AS N	14	0.160	--	*0.033	*0.160	*0.032	*0.020	*0.009	*0.002
00607	NITROGEN ORGANIC (MG/L AS N)	398	1.600	0.000	0.095	0.891	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	398	19.000	0.000	0.432	1.700	0.845	0.000	0.000	0.000
00600	NITROGEN TOTAL (MG/L AS N)	398	21.000	0.000	0.670	2.900	1.325	0.000	0.000	0.000
71887	NITROGEN, TOTAL MG/L AS NO3	398	28.000	0.000	1.277	10.000	0.000	0.000	0.000	0.000
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	398	1.690	0.000	0.108	0.676	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	398	1.990	0.000	0.035	0.190	0.000	0.000	0.000	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	125	1.800	0.010	0.200	0.570	0.230	0.160	0.100	0.050
00672	PHOSPHORUS HYDRO (MG/L AS P)	398	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	398	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	398	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	398	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	86	0.550	0.010	0.158	0.396	0.210	0.130	0.080	0.040
70507	PHOS ORTHO TOT A MG/L AS P	14	0.650	0.060	0.229	0.650	0.303	0.160	0.110	0.060
00665	PHOSPHORUS TOTAL (MG/L AS P)	126	2.700	0.070	0.321	0.640	0.370	0.280	0.170	0.100
71886	PHOSPHORUS TOT P MG/L AS PO4	46	2.900	0.280	0.906	2.355	1.100	0.785	0.423	0.320
99893	TOT P DISS MOD J	1	0.180	--	--	--	--	--	--	--
99891	TOT P, WH, MOD J	1	0.400	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	398	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	398	368.000	0.000	2.877	8.705	2.400	0.000	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	37	39.000	7.400	11.727	20.100	12.500	10.000	9.400	7.850
00689	CARBON ORGANIC P (MG/L AS C)	34	5.000	0.100	1.571	3.950	2.400	1.200	0.700	0.325
00680	CARBON ORGANIC T (MG/L AS C)	17	28.000	7.800	16.635	28.000	21.000	15.000	14.000	7.800
00690	CARBON INORG + O (MG/L AS C)	398	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	398	0.000	--	--	--	--	--	--	--
00572	BIOMASS, PERIPHY (G/SQ M)	9	5.350	0.000	1.338	5.350	2.795	0.236	0.119	0.000
00573	BIOMASS PERIPHYT (G/SQ M)	9	7.560	0.000	1.689	7.560	3.030	0.472	0.120	0.000
70950	BIO CHL RATIO PE UNITS	398	2880.000	0.000	11.398	0.000	0.000	0.000	0.000	0.000
70949	BIO CHL RATIO PL UNITS	398	0.000	--	--	--	--	--	--	--
60050	PHYTO TYPE-I CELLS/ML	23	180000.000	120.000	24494.348	158799.922	34000.000	8400.000	3600.000	186.000
31501	TOT COLI,MENDO M COLS./100 ML	1	470.000	--	--	--	--	--	--	--
31625	COLIFORM FECAL 0 COLS./100 ML	101	2400.000	0.000	113.792	631.000	98.500	32.000	12.500	4.000
31673	FECAL STREP,KF M COLS./100 ML	103	54000.000	1.000	1240.825	3760.002	340.000	95.000	33.000	10.000

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70957	CHL-A PR CH-FL M MG/M2	8	9.400	0.000	1.875	9.400	2.550	0.300	0.100	0.000
70958	CHL-B PR CH-FL M MG/M2	9	2.700	0.000	0.500	2.700	0.900	0.000	0.000	0.000
01106	ALUMINUM DISSOLV (UG/L AS AL)	44	70.000	--	*17.483	*55.000	*20.000	*20.000	*8.650	*4.483
01000	ARSENIC DISSOLVE (UG/L AS AS)	64	11.000	1.000	3.875	7.000	5.000	4.000	3.000	1.250
01001	ARSENIC SUSPENDE (UG/L AS AS)	17	6.000	--	*1.023	*6.000	*1.000	*0.501	*0.225	*0.074
01002	ARSENIC TOTAL (UG/L AS AS)	21	10.000	2.000	5.048	9.900	7.000	5.000	3.500	2.000
01005	BARIUM DISSOLVED (UG/L AS BA)	65	200.000	--	*85.352	*194.000	*92.747	*77.000	*63.500	*53.000
01006	BARIUM SUSPENDED (UG/L AS BA)	21	300.000	0.000	39.048	280.000	100.000	0.000	0.000	0.000
01007	BARIUM TOTAL (UG/L AS BA)	21	400.000	--	*125.374	*390.000	*200.000	*100.000	*57.063	*28.040
01010	BERYLLIUM DISSOL (UG/L AS BE)	33	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	22	290.000	--	*103.987	*282.500	*130.000	*110.000	*37.503	*19.107
01022	BORON TOTAL (UG/L AS B)	3	140.000	60.000	--	--	--	--	--	--
01025	CADMIUM DISSOLVE (UG/L AS CD)	51	45.000	--	*1.621	*12.800	*0.131	*0.011	*0.001	*0.000
01026	CADMIUM SUSPENDE (UG/L AS CD)	13	1.000	0.000	0.077	1.000	0.000	0.000	0.000	0.000
01027	CADMIUM TOTAL (UG/L AS CD)	18	1.000	--	*1.000	*1.000	*1.000	*1.000	*1.000	*1.000
01030	CHROMIUM DISSOLV (UG/L AS CR)	54	--	--	--	--	--	--	--	--
01031	CHROMIUM SUSPEND (UG/L AS CR)	17	30.000	0.000	5.294	30.000	10.000	0.000	0.000	0.000
01034	CHROMIUM TOTAL (UG/L AS CR)	21	--	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	65	--	--	--	--	--	--	--	--
01036	COBALT SUSPENDED (UG/L AS CO)	15	--	--	--	--	--	--	--	--
01037	COBALT TOTAL (UG/L AS CO)	21	12.000	--	*2.065	*11.300	*2.000	*2.000	*0.634	*0.240
01040	COPPER DISSOLVED (UG/L AS CU)	54	22.000	--	*4.276	*10.750	*5.000	*3.000	*2.000	*1.000
01041	COPPER SUSPENDED (UG/L AS CU)	21	31.000	0.000	8.095	29.700	12.000	6.000	3.500	0.000
01042	COPPER TOTAL (UG/L AS CU)	21	35.000	3.000	13.190	33.900	20.500	11.000	6.000	3.200
71885	IRON UG/L AS FE	9	90.000	20.000	47.778	90.000	75.000	50.000	20.000	20.000
01046	IRON DISSOLVED (UG/L AS FE)	98	1000.000	--	*39.551	*130.000	*30.000	*20.000	*10.000	*3.321
01044	IRON SUSPENDED (UG/L AS FE)	17	18000.000	130.000	2872.941	18000.000	4500.000	1200.000	325.000	130.000
01045	IRON TOTAL (UG/L AS FE)	24	18000.000	20.000	2361.250	15125.000	3625.000	915.000	285.000	27.500
01049	LEAD DISSOLVED (UG/L AS PB)	60	190.000	--	*4.375	*5.000	*2.000	*0.548	*0.182	*0.049
01050	LEAD SUSPENDED (UG/L AS PB)	16	22.000	2.000	9.188	22.000	10.750	8.000	4.250	2.000
01051	LEAD TOTAL (UG/L AS PB)	17	25.000	--	*10.086	*25.000	*10.500	*9.000	*6.000	*2.454
01130	LITHIUM DISSOLVE (UG/L AS LI)	54	56.000	14.000	33.167	48.250	40.000	31.000	27.000	19.750
01056	MANGANESE DISSOL (UG/L AS MN)	102	87.000	--	*20.536	*75.950	*35.000	*10.000	*3.000	*1.000
01054	MANGANESE SUSPEN (UG/L AS MN)	20	850.000	10.000	199.000	833.500	342.500	110.000	42.500	10.000
01055	MANGANESE TOTAL (UG/L AS MN)	30	860.000	--	*177.705	*678.500	*207.500	*100.000	*65.000	*9.369

Supplement 26. Statistical summary of water-quality data for the Red River of the North at Halstad, N. Dak., gaging station 05064500, July 1961 through July 2001--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, July 1961 through July 2001--Continued							
71890	MERCURY DISSOLVE UG/L AS HG	63	6.900	--	*0.206	*0.920	*0.100	*0.009	*0.001	*0.000
71895	MERCURY SUSPENDE UG/L AS HG	17	22.000	0.000	1.406	22.000	0.200	0.100	0.000	0.000
71900	MERCURY, TOT.REC UG/L AS HG	21	29.000	--	*1.671	*26.280	*0.350	*0.200	*0.065	*0.005
01060	MOLYBDENUM DISSO (UG/L AS MO)	54	10.000	--	*1.818	*10.000	*2.172	*1.000	*0.456	*0.175
01065	NICKEL DISSOLVED (UG/L AS NI)	57	25.000	--	*4.359	*16.000	*5.000	*3.000	*2.000	*0.939
01066	NICKEL SUSPENDED (UG/L AS NI)	13	23.000	0.000	6.231	23.000	10.000	4.000	2.000	0.000
01067	NICKEL TOTAL (UG/L AS NI)	13	25.000	--	*11.185	*25.000	*16.500	*8.000	*5.500	*2.405
01145	SELENIUM DISSOLV (UG/L AS SE)	75	1.000	--	*1.000	*1.000	*1.000	*1.000	*1.000	*1.000
01146	SELENIUM SUSPEND (UG/L AS SE)	17	1.000	0.000	0.235	1.000	0.500	0.000	0.000	0.000
01147	SELENIUM TOTAL (UG/L AS SE)	21	1.000	--	*1.000	*1.000	*1.000	*1.000	*1.000	*1.000
01075	SILVER DISSOLVED (UG/L AS AG)	65	--	--	--	--	--	--	--	--
01076	SILVER SUSPENDED (UG/L AS AG)	17	4.000	0.000	0.588	4.000	1.000	0.000	0.000	0.000
01077	SILVER TOTAL (UG/L AS AG)	24	4.000	--	*0.870	*3.410	*1.000	*0.707	*0.426	*0.244
01080	STRONTIUM DISSOL (UG/L AS SR)	54	380.000	160.000	241.852	345.000	272.500	230.000	207.500	170.000
01085	VANADIUM DISSOLV (UG/L AS V)	44	--	--	--	--	--	--	--	--
01090	ZINC DISSOLVED (UG/L AS ZN)	54	190.000	--	*17.855	*62.000	*20.000	*9.000	*6.265	*1.973
01091	ZINC SUSPENDED (UG/L AS ZN)	20	120.000	0.000	25.500	119.000	27.500	20.000	10.000	0.000
01092	ZINC TOTAL (UG/L AS ZN)	21	140.000	10.000	44.762	137.000	50.000	40.000	30.000	11.000
75987	ALPHA PE TH-230 PCI/L	6	3.200	0.700	1.883	3.200	2.675	1.900	1.000	0.700
76004	ALPHA PE SS TH-2 PCI/L	6	6.700	0.500	3.833	6.700	5.800	4.500	1.100	0.500
75986	ALPHA CNT PE DIS UG/L	7	3.600	0.300	2.157	3.600	2.900	1.900	1.900	0.300
04127	ALPHA SS AS TH-2 PCI/L	1	10.000	--	--	--	--	--	--	--
04126	ALPHA DISS AS TH PCI/L	1	3.700	--	--	--	--	--	--	--
80030	GROSS ALPHA DIS. UG/L AS U-NAT	19	11.000	--	*3.261	*11.000	*3.147	*2.568	*1.866	*1.200
76005	BETA PE SS CS137 PCI/L	6	2.600	0.680	1.480	2.600	2.150	1.300	0.920	0.680
75989	BETA PE CS-137 PCI/L	7	2.500	1.800	2.129	2.500	2.300	2.200	1.900	1.800
75988	BETA PE SR90/Y90 PCI/L	7	1.800	1.500	1.643	1.800	1.800	1.600	1.500	1.500
80050	GROS-B,D,SR-90-P PCI/L SR/Y-90	20	14.000	5.500	9.440	13.950	10.750	9.200	8.350	5.530
01515	GROSS ALPHA DISS (PCI/L AS U-NA	4	--	--	--	--	--	--	--	--
80040	GROSS ALPHA SUS. UG/L AS U-NAT	19	31.000	--	*6.637	*31.000	*11.000	*5.400	*1.600	*0.543
01516	G.ALPHA SUS.U-N PCI/L AS U-NAT	7	21.000	2.000	6.414	21.000	7.500	3.900	2.400	2.000
03515	GROSS BETA DISSO PCI/L AS CS-13	20	16.000	7.000	11.265	15.850	13.000	11.500	9.475	7.040
80060	GROS-B,S,SR-90 P PCI/L SR/Y-90	19	35.000	--	*5.607	*35.000	*5.400	*4.000	*2.600	*0.694
03516	GROSS BETA SUSPE PCI/L AS CS-13	19	37.000	--	*6.023	*37.000	*5.900	*4.100	*2.700	*0.732
82082	HYDROGEN 2 / 1 R RATIO PER MIL	1	-68.500	--	--	--	--	--	--	--

Supplement 26. Statistical summary of water-quality data for the Red River of the North at Halstad, N. Dak., gaging station 05064500, July 1961 through July 2001--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, July 1961 through July 2001--Continued							
82085	OXYGEN 18 / 16 R RATIO PER MIL	1	-8.500	--	--	--	--	--	--	--
82068	POTSSSIUM 40 DIS (PCI/L AS K40)	7	6.200	2.900	4.829	6.200	5.400	5.100	3.700	2.900
09511	RADIUM 226 DISS. (PCI/L)	22	0.610	0.060	0.127	0.549	0.112	0.095	0.080	0.061
76001	RADIUM-226 PE DI PCI/L	8	0.030	0.020	0.021	0.030	0.020	0.020	0.020	0.020
07000	TRITIUM TOTAL (PCI/L)	1	57.000	--	--	--	--	--	--	--
75985	TRITIUM PREC EST PCI/L	1	6.400	--	--	--	--	--	--	--
75990	URANIUM NAT PE D UG/L	8	--	--	--	--	--	--	--	--
22703	URANIUM,NATURAL, UG/L AS U	22	9.000	1.000	3.045	8.700	3.250	2.000	2.000	1.150
70338	SED-SUSP-FALL-D- %	5	82.000	65.000	--	--	--	--	--	--
70340	SED-SUSP-FALL-D- %	5	97.000	77.000	--	--	--	--	--	--
70342	SED-SUSP-FALL-D- %	5	100.000	83.000	--	--	--	--	--	--
70343	SED-SUSP-FALL-D- %	1	84.000	--	--	--	--	--	--	--
70344	SED-SUSP-FALL-D- %	1	86.000	--	--	--	--	--	--	--
70345	SED-SUSP-FALL-D- %	1	91.000	--	--	--	--	--	--	--
70346	SED-SUSP-FALL-D- %	1	97.000	--	--	--	--	--	--	--
70347	SED-SUSP-FALL-D- %	1	100.000	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	109	100.000	21.000	92.156	100.000	99.500	98.000	94.000	57.000
80156	SUS-SED DISCH + T/DAY	398	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	133	730.000	6.000	128.617	361.200	191.000	76.000	20.500	8.700
80155	DISCHARGE,SUSP.S T/DAY	398	10700.000	0.000	352.198	2421.500	20.000	0.000	0.000	0.000
80164	SED-BED-SIEVE-.0 %	7	52.000	1.000	20.429	52.000	41.000	13.000	3.000	1.000
80165	SED-BED-SIEVE-.1 %	7	53.000	3.000	23.429	53.000	43.000	16.000	7.000	3.000
80166	SED-BED-SIEVE-.2 %	7	55.000	8.000	29.000	55.000	45.000	24.000	15.000	8.000
80167	SED-BED-SIEVE-.5 %	7	64.000	20.000	45.857	64.000	62.000	44.000	32.000	20.000
80168	SED-BED-SIEVE-1. %	7	79.000	48.000	66.143	79.000	78.000	69.000	51.000	48.000
80169	SED-BED-SIEVE-2. %	7	96.000	70.000	78.143	96.000	82.000	76.000	72.000	70.000
80170	SED-BED-SIEVE-4. %	7	97.000	76.000	86.286	97.000	91.000	87.000	80.000	76.000
80171	SED-BED-SIEVE-8. %	7	99.000	79.000	92.000	99.000	98.000	92.000	89.000	79.000
80172	SED-BED-SIEVE-16 %	7	100.000	91.000	98.143	100.000	100.000	100.000	96.000	91.000
80173	SED-BED-SIEVE-32 %	2	100.000	100.000	--	--	--	--	--	--

Supplement 26. Statistical summary of water-quality data for the Red River of the North at Halstad, N. Dak., gaging station 05064500, July 1961 through July 2001--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, October 1992 through June 1995							
00060	DISCHARGE CFS	3	3230.000	900.000	--	--	--	--	--	--
00061	DISCHARGE, INST. CFS	26	22000.000	376.000	6614.769	20984.998	12275.000	4175.000	1060.500	394.900
70303	RESIDUE DIS TON/ T/AC-FT	22	0.900	0.300	0.605	0.885	0.700	0.600	0.571	0.300
70302	DISSOLVED SOLIDS TONS/DAY	21	19200.000	427.000	6662.333	18899.998	11700.000	5510.000	1335.000	435.000
70300	RESIDUE DIS 180C MG/L	22	632.000	198.000	448.682	624.950	525.000	469.000	401.500	205.950
70301	DISSOLVED SOLIDS MG/L	22	571.000	189.000	419.773	567.100	495.000	447.500	363.000	196.350
00076	TURBIDITY (NTU)	4	60.000	6.700	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	26	753.000	733.000	741.731	751.950	745.250	740.500	737.750	733.350
00300	OXYGEN DISSOLVED (MG/L)	25	16.200	1.900	8.880	15.300	11.100	10.300	6.200	2.200
00301	OXYGEN DIS. PERC % OF SATURATIO	23	118.000	36.300	81.122	115.400	92.100	82.600	71.900	40.140
00400	PH, WH, FIELD (STANDARD UNIT	28	8.600	7.400	8.011	8.600	8.200	8.050	7.800	7.490
00403	PH, WH, LABORATO (STANDARD UNIT	22	8.300	7.300	7.764	8.285	7.925	7.750	7.600	7.315
90095	SPECIFIC CONDUCT MICROSIEMENS/C	23	900.000	334.000	671.304	895.000	791.000	712.000	529.000	342.800
00095	SPECIFIC CONDUCT US/CM @ 25C	27	1220.000	314.000	713.815	1096.400	801.000	723.000	645.000	339.600
00020	AIR TEMPERATURE DEGREES C	29	25.000	-20.000	8.090	24.000	19.750	8.500	1.000	-16.500
00010	WATER TEMPERATUR (DEGREES C)	30	23.500	0.000	10.587	22.400	19.700	9.250	0.875	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	17	188.000	21.000	95.294	188.000	134.500	107.000	44.000	21.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	22	395.000	128.000	294.000	393.650	347.000	314.500	249.000	133.250
00915	CALCIUM DISSOLVE (MG/L AS CA)	22	82.000	30.000	62.955	81.550	72.250	65.500	56.000	31.350
00925	MAGNESIUM DISSOL (MG/L AS MG)	22	48.000	13.000	33.227	47.400	40.250	35.000	26.500	13.450
00935	POTASSIUM DISSOL (MG/L AS K)	22	11.000	6.200	8.277	10.850	9.825	8.300	6.950	6.230
00931	SODIUM ADSORPTIO (RATIO)	22	1.130	0.341	0.726	1.117	0.850	0.762	0.619	0.347
00930	SODIUM DISSOLVED (MG/L AS NA)	22	48.000	10.000	29.227	47.850	36.000	31.000	22.500	10.000
00932	SODIUM, PERCENT PERCENT	22	23.000	11.100	16.782	22.625	18.000	16.750	15.850	11.310
90410	ANC, TIT. 4.5, L MG/L AS CACO3	21	303.000	114.000	215.095	302.300	267.000	212.000	164.000	116.100
00418	ALKALINITY,DIS,F (MG/L AS CACO3	4	288.000	230.000	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	24	332.000	100.000	220.958	321.750	256.250	222.000	195.250	108.750
00453	BICARBONATE,DIS, (MG/L AS HCO3)	24	405.000	122.000	265.417	389.000	310.250	269.500	233.500	132.750
00452	CARBONATE,DIS,IT (MG/L AS CO3)	25	16.000	0.000	2.080	14.200	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	22	37.000	6.800	16.668	34.750	19.000	17.000	13.250	6.905
00950	FLUORIDE DISSOLV (MG/L AS F)	22	0.500	0.100	0.214	0.470	0.200	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	22	27.000	10.000	16.318	26.100	20.000	15.500	12.000	10.300
00945	SULFATE DISSOLVE (MG/L AS SO4)	22	240.000	44.000	122.091	231.000	162.500	120.000	72.750	45.350
00608	NITROGEN AMMONIA (MG/L AS N)	23	1.200	0.010	0.172	1.040	0.240	0.080	0.050	0.012
00623	NITRO AMN & ORG (MG/L AS N)	18	1.600	0.500	0.867	1.600	0.925	0.800	0.700	0.500

Supplement 26. Statistical summary of water-quality data for the Red River of the North at Halstad, N. Dak., gaging station 05064500, July 1961 through July 2001--Continued

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			Minnesota data, October 1992 through June 1995--Continued							
00625	NITROGEN AMM+ORG (MG/L AS N)	24	2.500	0.800	1.283	2.500	1.400	1.100	0.900	0.800
71846	NITR. NH4 AS NH4 MG/L AS NH4	23	1.550	0.013	0.222	1.343	0.309	0.103	0.064	0.016
00610	NITROGEN AMMONIA (MG/L AS N)	2	1.100	0.020	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	2	1.420	0.030	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	18	6.500	0.880	1.973	6.500	2.475	1.420	1.000	0.880
00618	NITROGEN NITRATE (MG/L AS N)	20	4.630	0.068	1.023	4.569	1.257	0.555	0.345	0.075
71851	NITR. NO3 AS NO3 MG/L AS NO3	20	20.500	0.301	4.530	20.230	5.562	2.455	1.528	0.332
00620	NITROGEN NITRATE MG/L AS N	1	0.230	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	23	4.900	0.098	0.960	4.640	0.980	0.560	0.300	0.114
00630	NO2 + NO3 TOTAL (MG/L AS N)	2	0.200	0.200	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	20	0.887	0.033	0.163	0.874	0.189	0.099	0.041	0.033
00613	NITROGEN,NITRITE MG/L AS N	23	0.270	--	*0.044	*0.254	*0.050	*0.020	*0.010	*0.003
00615	NITROGEN,NITRITE MG/L AS N	2	--	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	18	1.200	0.410	0.736	1.200	0.795	0.700	0.630	0.410
00605	NITROGEN ORGANIC (MG/L AS N)	23	2.410	0.560	1.115	2.354	1.350	1.010	0.750	0.576
00600	NITROGEN TOTAL (MG/L AS N)	23	6.700	1.120	2.242	6.360	2.990	1.740	1.200	1.124
71887	NITROGEN, TOTAL MG/L AS NO3	2	11.900	5.000	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	23	1.100	0.184	0.477	1.058	0.675	0.368	0.307	0.184
00650	PHOSPHATE TOTAL (MG/L AS PO4)	2	1.230	0.337	--	--	--	--	--	--
00666	PHOSPHORUS DISS. (MG/L AS P)	23	0.370	0.050	0.165	0.362	0.240	0.130	0.110	0.052
00671	PHOSPHORUS ORTHO (MG/L AS P)	23	0.360	0.060	0.156	0.346	0.220	0.120	0.100	0.060
70507	PHOS ORTHO TOT A MG/L AS P	2	0.400	0.110	--	--	--	--	--	--
00665	PHOSPHORUS TOTAL (MG/L AS P)	24	0.840	0.070	0.299	0.785	0.365	0.275	0.205	0.075
00405	CARBON DIOXIDE D (MG/L AS CO2)	21	11.700	1.200	4.510	11.460	5.900	3.700	2.450	1.290
00681	CARBON ORGANIC D (MG/L AS C)	8	12.000	8.600	9.887	12.000	10.750	9.600	9.025	8.600
00689	CARBON ORGANIC P (MG/L AS C)	8	5.000	0.400	1.788	5.000	2.625	1.300	0.650	0.400
31625	COLIFORM FECAL 0 COLS./100 ML	4	110.000	5.000	--	--	--	--	--	--
31673	FECAL STREP,KF M COLS./100 ML	4	200.000	28.000	--	--	--	--	--	--
01106	ALUMINUM DISSOLV (UG/L AS AL)	2	20.000	20.000	--	--	--	--	--	--
01005	BARIUM DISSOLVED (UG/L AS BA)	2	79.000	51.000	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	2	--	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	20	130.000	--	*27.971	*129.000	*27.500	*15.000	*10.000	*2.211
01130	LITHIUM DISSOLVE (UG/L AS LI)	2	46.000	27.000	--	--	--	--	--	--
01056	MANGANESE DISSOL (UG/L AS MN)	20	87.000	--	*19.162	*86.700	*24.750	*6.500	*2.250	*0.283
01060	MOLYBDENUM DISSO (UG/L AS MO)	2	--	--	--	--	--	--	--	--

Supplement 26. Statistical summary of water-quality data for the Red River of the North at Halstad, N. Dak., gaging station 05064500, July 1961 through July 2001--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, October 1992 through June 1995--Continued							
01065	NICKEL DISSOLVED (UG/L AS NI)	2	4.000	3.000	--	--	--	--	--	--
01145	SELENIUM DISSOLV (UG/L AS SE)	2	--	--	--	--	--	--	--	--
01075	SILVER DISSOLVED (UG/L AS AG)	2	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	2	320.000	210.000	--	--	--	--	--	--
01085	VANADIUM DISSOLV (UG/L AS V)	2	--	--	--	--	--	--	--	--
75987	ALPHA PE TH-230 PCI/L	1	2.500	--	--	--	--	--	--	--
76004	ALPHA PE SS TH-2 PCI/L	1	6.700	--	--	--	--	--	--	--
75986	ALPHA CNT PE DIS UG/L	1	3.600	--	--	--	--	--	--	--
04127	ALPHA SS AS TH-2 PCI/L	1	10.000	--	--	--	--	--	--	--
04126	ALPHA DISS AS TH PCI/L	1	3.700	--	--	--	--	--	--	--
80030	GROSS ALPHA DIS. UG/L AS U-NAT	1	5.300	--	--	--	--	--	--	--
76005	BETA PE SS CS137 PCI/L	1	2.600	--	--	--	--	--	--	--
75989	BETA PE CS-137 PCI/L	1	2.500	--	--	--	--	--	--	--
75988	BETA PE SR90/Y90 PCI/L	1	1.800	--	--	--	--	--	--	--
80050	GROS-B,D,SR-90-P PCI/L SR/Y-90	1	9.900	--	--	--	--	--	--	--
80040	GROSS ALPHA SUS. UG/L AS U-NAT	1	13.000	--	--	--	--	--	--	--
03515	GROSS BETA DISSO PCI/L AS CS-13	1	13.000	--	--	--	--	--	--	--
80060	GROS-B,S,SR-90 P PCI/L SR/Y-90	1	10.000	--	--	--	--	--	--	--
03516	GROSS BETA SUSPE PCI/L AS CS-13	1	11.000	--	--	--	--	--	--	--
09511	RADIUM 226 DISS. (PCI/L)	1	0.100	--	--	--	--	--	--	--
76001	RADIUM-226 PE DI PCI/L	1	0.020	--	--	--	--	--	--	--
75990	URANIUM NAT PE D UG/L	1	--	--	--	--	--	--	--	--
22703	URANIUM,NATURAL, UG/L AS U	1	2.200	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	23	100.000	88.000	98.522	100.000	100.000	99.000	98.000	89.800
80154	CONCENTRATION,S. MG/L	23	643.000	9.000	188.000	602.600	281.000	138.000	52.000	9.800
80155	DISCHARGE,SUSP.S T/DAY	22	20600.000	21.000	3809.182	19355.004	5672.500	2400.000	319.250	22.650

Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 27. Statistical summary of water-quality data for the Goose River at Hillsboro, N. Dak., gaging station 05066500, September 1969 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, September 1969 through April 2001									
00060	DISCHARGE CFS	57	3940.000	0.750	323.545	2181.000	103.000	20.000	6.350	1.590
00061	DISCHARGE, INST. CFS	281	8000.000	0.020	505.560	3193.999	260.000	24.000	4.700	0.471
00540	RESIDUE FIXED (MG/L)	339	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	339	2.980	0.000	0.360	1.810	0.520	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	339	4510.000	0.000	117.921	629.000	5.680	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	95	2190.000	184.000	944.021	1638.000	1140.000	977.000	644.000	257.800
70301	DISSOLVED SOLIDS MG/L	339	2060.000	0.000	251.882	1250.000	339.000	0.000	0.000	0.000
00025	AIR PRESSURE (MM OF HG)	4	785.000	735.000	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	4	10.400	4.100	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	339	114.000	0.000	0.743	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	96	8.500	7.200	7.898	8.400	8.100	7.900	7.700	7.400
00403	PH, WH, LABORATO (STANDARD UNIT	29	8.900	6.600	7.776	8.600	8.100	7.800	7.450	6.750
00094	FIELD CONDUCTIVI US/CM @ 25C	17	1960.000	318.000	977.765	1960.000	1365.000	916.000	545.000	318.000
90095	SPECIFIC CONDUCT MICROSIEMENS/C	19	1540.000	402.000	967.316	1540.000	1330.000	1090.000	538.000	402.000
00095	SPECIFIC CONDUCT US/CM @ 25C	324	3400.000	204.000	1324.469	2315.000	1647.500	1335.000	935.000	366.250
00020	AIR TEMPERATURE DEGREES C	177	35.000	-30.000	10.158	28.000	20.000	10.500	1.750	-8.200
00010	WATER TEMPERATUR (DEGREES C)	332	27.500	0.000	9.230	24.175	18.500	6.000	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	339	370.000	0.000	1.091	0.000	0.000	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	339	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	339	500.000	0.000	49.475	360.000	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	339	300.000	0.000	2.537	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	339	930.000	0.000	145.457	700.000	210.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	95	230.000	32.000	119.747	213.000	150.000	120.000	80.000	38.600
00925	MAGNESIUM DISSOL (MG/L AS MG)	95	98.000	10.000	53.421	87.000	71.000	58.000	35.000	15.800
00935	POTASSIUM DISSOL (MG/L AS K)	95	20.000	2.600	10.925	17.200	12.000	10.000	9.000	5.980
00931	SODIUM ADSORPTIO (RATIO)	339	5.000	0.000	0.502	2.000	0.700	0.000	0.000	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	95	330.000	8.500	98.113	254.000	120.000	84.000	54.000	13.000
00932	SODIUM, PERCENT PERCENT	339	50.000	0.000	7.248	33.000	17.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	339	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	40	380.000	90.000	215.575	355.650	304.500	220.000	123.500	98.100
39086	ALKALINITY,DIS,I (MG/L AS CACO3	1	306.000	--	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	56	464.000	91.000	302.875	445.450	371.500	304.000	260.250	113.400
95440	BICARBONATE MG/L AS CACO3	22	460.000	110.000	263.182	451.000	370.000	270.000	147.500	110.000
00453	BICARBONATE,DIS, (MG/L AS HCO3)	1	361.000	--	--	--	--	--	--	--
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	56	570.000	110.000	367.500	541.500	450.000	370.000	310.000	138.500

Supplement 27. Statistical summary of water-quality data for the Goose River at Hillsboro, N. Dak., gaging station 05066500, September 1969 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, September 1969 through April 2001--Continued								
95445	CARBONATE MG/L AS CO3	22	22.000	0.000	1.136	19.150	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	1	6.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	55	18.000	0.000	0.564	2.600	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	95	310.000	5.400	69.220	214.000	90.000	50.000	24.000	7.940
00950	FLUORIDE DISSOLV (MG/L AS F)	95	1.500	0.100	0.338	0.900	0.400	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	83	31.000	1.700	16.784	26.800	20.000	17.000	14.000	4.680
00945	SULFATE DISSOLVE (MG/L AS SO4)	95	800.000	49.000	370.495	614.000	480.000	400.000	240.000	86.400
00608	NITROGEN AMMONIA (MG/L AS N)	2	0.070	0.040	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	2	0.800	0.700	--	--	--	--	--	--
00625	NITROGEN AMM+ORG (MG/L AS N)	2	1.600	1.100	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	339	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
71845	NITROGEN, NH4, T MG/L AS NH4	339	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	339	1.100	0.000	0.003	0.000	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	339	2.700	0.000	0.084	0.560	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	339	13.000	0.000	0.535	3.900	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	339	0.000	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	2	--	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	339	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	339	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	2	--	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	339	0.760	0.000	0.004	0.000	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	339	1.600	0.000	0.008	0.000	0.000	0.000	0.000	0.000
00600	NITROGEN TOTAL (MG/L AS N)	339	1.500	0.000	0.004	0.000	0.000	0.000	0.000	0.000
71887	NITROGEN, TOTAL MG/L AS NO3	339	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	339	2.800	0.000	0.053	0.190	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	339	0.000	--	--	--	--	--	--	--
00666	PHOSPHORUS DISS. (MG/L AS P)	2	--	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	339	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	339	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	339	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	339	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	12	0.910	--	*0.156	*0.910	*0.268	*0.039	*0.004	*0.003
00665	PHOSPHORUS TOTAL (MG/L AS P)	2	0.390	0.090	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	339	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	339	47.000	0.000	2.260	13.000	2.200	0.000	0.000	0.000

Supplement 27. Statistical summary of water-quality data for the Goose River at Hillsboro, N. Dak., gaging station 05066500, September 1969 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptiva statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, September 1969 through April 2001--Continued								
00681	CARBON ORGANIC D (MG/L AS C)	2	13.000	8.400	--	--	--	--	--	--
00689	CARBON ORGANIC P (MG/L AS C)	2	9.000	1.500	--	--	--	--	--	--
00690	CARBON INORG + O (MG/L AS C)	339	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	339	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	339	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	339	0.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	36	19.000	1.000	5.250	18.150	6.750	4.000	3.000	1.850
01020	BORON DISSOLVED (UG/L AS B)	81	1100.000	--	*244.255	*780.000	*320.000	*210.000	*70.000	*25.778
71885	IRON UG/L AS FE	11	5600.000	0.000	860.000	5600.000	1200.000	280.000	50.000	0.000
01046	IRON DISSOLVED (UG/L AS FE)	83	880.000	0.000	66.386	218.000	80.000	40.000	20.000	0.000
01049	LEAD DISSOLVED (UG/L AS PB)	36	3.000	--	*0.510	*2.150	*0.609	*0.272	*0.121	*0.037
01130	LITHIUM DISSOLVE (UG/L AS LI)	36	140.000	12.000	57.917	123.000	89.250	59.500	21.250	16.250
71883	MANGANESE UG/L AS MN	10	210.000	10.000	57.000	210.000	72.500	30.000	20.000	10.000
01056	MANGANESE DISSOL (UG/L AS MN)	84	2800.000	1.000	362.798	1875.000	345.000	175.000	80.000	10.000
71890	MERCURY DISSOLVE UG/L AS HG	36	0.600	--	*0.111	*0.430	*0.100	*0.086	*0.036	*0.013
01060	MOLYBDENUM DISSO (UG/L AS MO)	36	5.000	--	*1.914	*5.000	*2.000	*2.000	*1.000	*0.444
01145	SELENIUM DISSOLV (UG/L AS SE)	36	2.000	--	*0.855	*2.000	*1.000	*0.747	*0.527	*0.313
01080	STRONTIUM DISSOL (UG/L AS SR)	36	930.000	91.000	454.750	930.000	660.000	465.000	250.000	132.650
07060	IRON 59 DISSOLVE (PCI/L)	1	3.000	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	2	100.000	93.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	339	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	2	610.000	38.000	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	339	1960.000	0.000	5.807	0.000	0.000	0.000	0.000	0.000

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 28. Statistical summary of water-quality data for the Marsh River near Shelly, Minn., gaging station 05067500, July 1975 through September 2000

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, July 1975 through September 2000							
00065	GAGE HEIGHT (FEET)	2	4.290	3.830	--	--	--	--	--	--
00061	DISCHARGE, INST. CFS	4	3060.000	3.300	--	--	--	--	--	--
00540	RESIDUE FIXED (MG/L)	4	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	4	0.000	--	--	--	--	--	--	--
70302	DISSOLVED SOLIDS TONS/DAY	4	0.000	--	--	--	--	--	--	--
70301	DISSOLVED SOLIDS MG/L	4	0.000	--	--	--	--	--	--	--
00076	TURBIDITY (NTU)	2	50.000	42.000	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	1	735.000	--	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	2	8.900	7.300	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	4	72.000	0.000	--	--	--	--	--	--
00400	PH, WH, FIELD (STANDARD UNIT	2	8.300	8.000	--	--	--	--	--	--
00095	SPECIFIC CONDUCT US/CM @ 25C	2	627.000	605.000	--	--	--	--	--	--
00020	AIR TEMPERATURE DEGREES C	2	19.500	10.000	--	--	--	--	--	--
00010	WATER TEMPERATUR (DEGREES C)	4	24.000	8.000	--	--	--	--	--	--
00904	HARDNESS NC. DIS (MG/L AS CACO3	4	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	4	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	4	0.000	--	--	--	--	--	--	--
00903	NONCARBONATE HAR (MG/L AS CACO3	4	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	4	0.000	--	--	--	--	--	--	--
00931	SODIUM ADSORPTIO (RATIO)	4	0.000	--	--	--	--	--	--	--
00932	SODIUM, PERCENT PERCENT	4	0.000	--	--	--	--	--	--	--
00435	ACIDITY TOTAL (MG/L AS CACO3	4	0.000	--	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	4	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	4	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	4	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	4	0.000	--	--	--	--	--	--	--
71851	NITR. NO3 AS NO3 MG/L AS NO3	4	0.000	--	--	--	--	--	--	--
00620	NITROGEN NITRATE MG/L AS N	4	0.000	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	4	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	4	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	4	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	4	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	4	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	4	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	4	0.000	--	--	--	--	--	--	--

Supplement 28. Statistical summary of water-quality data for the Marsh River near Shelly, Minn., gaging station 05067500, July 1975 through September 2000--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, July 1975 through September 2000--Continued							
00650	PHOSPHATE TOTAL (MG/L AS PO4)	4	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	4	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	4	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	4	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	4	0.000	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	4	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	4	0.000	--	--	--	--	--	--	--
00681	CARBON ORGANIC D (MG/L AS C)	2	15.000	12.000	--	--	--	--	--	--
00680	CARBON ORGANIC T (MG/L AS C)	2	15.000	14.000	--	--	--	--	--	--
00690	CARBON INORG + O (MG/L AS C)	4	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	4	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	4	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	4	0.000	--	--	--	--	--	--	--
70342	SED-SUSP-FALL-D- %	1	99.000	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	2	98.000	87.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	4	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	4	87.000	44.000	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	4	719.000	0.620	--	--	--	--	--	--

Supplement 29. Statistical summary of water-quality data for the Sand Hill River at Climax, Minn., gaging station 05069000, November 1966 through September 2000

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, November 1966 through September 2000							
00065	GAGE HEIGHT (FEET)	3	5.640	4.590	--	--	--	--	--	--
00060	DISCHARGE CFS	1	28.000	--	--	--	--	--	--	--
00061	DISCHARGE, INST. CFS	7	2690.000	11.000	444.714	2690.000	246.000	41.000	28.000	11.000
00080	COLOR PLATINUM-COBAL	1	20.000	--	--	--	--	--	--	--
00540	RESIDUE FIXED (MG/L)	7	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	7	0.610	0.000	0.087	0.610	0.000	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	7	34.000	0.000	4.857	34.000	0.000	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	2	475.000	445.000	--	--	--	--	--	--
70301	DISSOLVED SOLIDS MG/L	7	435.000	0.000	62.143	435.000	0.000	0.000	0.000	0.000
00076	TURBIDITY (NTU)	3	120.000	25.000	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	2	764.000	737.000	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	3	9.200	8.900	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	7	90.000	0.000	22.000	90.000	64.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	5	8.400	7.800	--	--	--	--	--	--
00403	PH, WH, LABORATO (STANDARD UNIT	1	7.800	--	--	--	--	--	--	--
90095	SPECIFIC CONDUCT MICROSIEMENS/C	1	768.000	--	--	--	--	--	--	--
00095	SPECIFIC CONDUCT US/CM @ 25C	5	799.000	602.000	--	--	--	--	--	--
00020	AIR TEMPERATURE DEGREES C	1	-2.000	--	--	--	--	--	--	--
00010	WATER TEMPERATUR (DEGREES C)	7	23.000	0.000	8.914	23.000	15.500	9.000	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	7	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	7	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	7	50.000	0.000	7.143	50.000	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	7	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	7	410.000	0.000	110.000	410.000	360.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	2	100.000	84.000	--	--	--	--	--	--
00925	MAGNESIUM DISSOL (MG/L AS MG)	2	38.000	37.000	--	--	--	--	--	--
00935	POTASSIUM DISSOL (MG/L AS K)	2	4.100	3.500	--	--	--	--	--	--
00931	SODIUM ADSORPTIO (RATIO)	7	0.400	0.000	0.100	0.400	0.300	0.000	0.000	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	2	19.000	14.000	--	--	--	--	--	--
00932	SODIUM, PERCENT PERCENT	7	10.000	0.000	2.429	10.000	7.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	7	0.000	--	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	1	310.000	--	--	--	--	--	--	--
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	1	380.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	1	0.000	--	--	--	--	--	--	--
71870	BROMIDE DISSOLVE MG/L AS BR	1	0.040	--	--	--	--	--	--	--

Supplement 29. Statistical summary of water-quality data for the Sand Hill River at Climax, Minn., gaging station 05069000, November 1966 through September 2000--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, November 1966 through September 2000--Continued									
00940	CHLORIDE DISSOLV (MG/L AS CL)	2	15.000	13.000	--	--	--	--	--	--
00950	FLUORIDE DISSOLV (MG/L AS F)	2	0.300	0.200	--	--	--	--	--	--
00955	SILICA DISSOLVED (MG/L AS SIO2)	2	25.000	21.000	--	--	--	--	--	--
00945	SULFATE DISSOLVE (MG/L AS SO4)	2	78.000	69.000	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	7	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	7	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	7	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	7	0.000	--	--	--	--	--	--	--
71851	NITR. NO3 AS NO3 MG/L AS NO3	7	0.100	0.000	0.014	0.100	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	7	0.000	--	--	--	--	--	--	--
71850	N, NITRATE TOTAL MG/L AS NO3	1	0.100	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	7	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	7	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	7	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	7	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	7	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	7	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	7	0.060	0.000	0.009	0.060	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	7	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	7	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	7	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	7	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	7	0.000	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	7	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	7	3.800	0.000	0.543	3.800	0.000	0.000	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	3	13.000	11.000	--	--	--	--	--	--
00680	CARBON ORGANIC T (MG/L AS C)	3	19.000	10.000	--	--	--	--	--	--
00690	CARBON INORG + O (MG/L AS C)	7	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	7	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	7	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	7	0.000	--	--	--	--	--	--	--
01105	ALUMINUM TOTAL UG/L AS AL	1	200.000	--	--	--	--	--	--	--
01005	BARIUM DISSOLVED (UG/L AS BA)	1	150.000	--	--	--	--	--	--	--
01010	BERYLLIUM DISSOL (UG/L AS BE)	1	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	1	70.000	--	--	--	--	--	--	--

Supplement 29. Statistical summary of water-quality data for the Sand Hill River at Climax, Minn., gaging station 05069000, November 1966 through September 2000--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, November 1966 through September 2000--Continued									
01022	BORON TOTAL (UG/L AS B)	1	70.000	--	--	--	--	--	--	--
01025	CADMIUM DISSOLVE (UG/L AS CD)	1	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	1	--	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	1	--	--	--	--	--	--	--	--
01040	COPPER DISSOLVED (UG/L AS CU)	1	--	--	--	--	--	--	--	--
71885	IRON UG/L AS FE	1	20.000	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	1	20.000	--	--	--	--	--	--	--
01045	IRON TOTAL (UG/L AS FE)	1	20.000	--	--	--	--	--	--	--
01049	LEAD DISSOLVED (UG/L AS PB)	1	--	--	--	--	--	--	--	--
01130	LITHIUM DISSOLVE (UG/L AS LI)	1	22.000	--	--	--	--	--	--	--
01056	MANGANESE DISSOL (UG/L AS MN)	1	18.000	--	--	--	--	--	--	--
01055	MANGANESE TOTAL (UG/L AS MN)	1	0.000	--	--	--	--	--	--	--
01060	MOLYBDENUM DISSO (UG/L AS MO)	1	--	--	--	--	--	--	--	--
01065	NICKEL DISSOLVED (UG/L AS NI)	1	--	--	--	--	--	--	--	--
01145	SELENIUM DISSOLV (UG/L AS SE)	1	--	--	--	--	--	--	--	--
01075	SILVER DISSOLVED (UG/L AS AG)	1	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	1	240.000	--	--	--	--	--	--	--
01085	VANADIUM DISSOLV (UG/L AS V)	1	--	--	--	--	--	--	--	--
01090	ZINC DISSOLVED (UG/L AS ZN)	1	12.000	--	--	--	--	--	--	--
70342	SED-SUSP-FALL-D- %	1	99.000	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	2	100.000	97.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	7	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	4	305.000	60.000	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	7	1110.000	0.000	192.486	1110.000	203.000	5.400	0.000	0.000

Supplement 30. Statistical summary of water-quality data for the Lower Red Lake near Red Lake, Minn., gaging station 05074000, May 1962 through April 1965

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, May 1962 through April 1965									
00080	COLOR PLATINUM-COBAL	6	12.000	3.000	5.833	12.000	6.750	5.000	4.500	3.000
00540	RESIDUE FIXED (MG/L)	6	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	6	0.270	0.240	0.248	0.270	0.255	0.245	0.240	0.240
70302	DISSOLVED SOLIDS TONS/DAY	6	0.000	--	--	--	--	--	--	--
70300	RESIDUE DIS 180C MG/L	6	196.000	174.000	182.500	196.000	187.000	182.000	176.250	174.000
70301	DISSOLVED SOLIDS MG/L	6	168.000	156.000	164.000	168.000	168.000	166.500	158.250	156.000
00301	OXYGEN DIS. PERC % OF SATURATIO	6	0.000	--	--	--	--	--	--	--
00400	PH, WH, FIELD (STANDARD UNIT	6	7.800	7.300	7.483	7.800	7.650	7.450	7.300	7.300
00095	SPECIFIC CONDUCT US/CM @ 25C	6	311.000	283.000	296.000	311.000	308.750	292.000	288.250	283.000
00010	WATER TEMPERATUR (DEGREES C)	1	4.400	--	--	--	--	--	--	--
00904	HARDNESS NC. DIS (MG/L AS CACO3	6	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	6	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	6	7.000	4.000	5.000	7.000	6.250	4.500	4.000	4.000
00903	NONCARBONATE HAR (MG/L AS CACO3	6	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	6	160.000	150.000	153.333	160.000	160.000	150.000	150.000	150.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	6	39.000	34.000	37.000	39.000	38.250	37.500	35.500	34.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	6	16.000	14.000	14.833	16.000	15.250	15.000	14.000	14.000
00935	POTASSIUM DISSOL (MG/L AS K)	6	2.700	2.000	2.350	2.700	2.550	2.400	2.075	2.000
00931	SODIUM ADSORPTIO (RATIO)	6	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
00930	SODIUM DISSOLVED (MG/L AS NA)	6	4.000	3.100	3.417	4.000	3.775	3.250	3.175	3.100
00932	SODIUM, PERCENT PERCENT	6	5.000	4.000	4.333	5.000	5.000	4.000	4.000	4.000
00435	ACIDITY TOTAL (MG/L AS CACO3	6	0.000	--	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	1	141.000	--	--	--	--	--	--	--
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	6	190.000	170.000	180.000	190.000	190.000	180.000	170.000	170.000
00445	ANC CARB FET FIE (MG/L AS CO3)	6	0.000	--	--	--	--	--	--	--
00940	CHLORIDE DISSOLV (MG/L AS CL)	6	2.400	0.200	1.283	2.400	2.400	1.100	0.425	0.200
00950	FLUORIDE DISSOLV (MG/L AS F)	6	0.300	0.100	0.183	0.300	0.225	0.200	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	6	9.900	2.700	5.933	9.900	9.300	5.500	2.850	2.700
00945	SULFATE DISSOLVE (MG/L AS SO4)	6	12.000	8.800	9.967	12.000	10.500	9.750	9.325	8.800
71846	NITR. NH4 AS NH4 MG/L AS NH4	6	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	6	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	6	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	6	0.000	--	--	--	--	--	--	--
71851	NITR. NO3 AS NO3 MG/L AS NO3	6	2.800	0.100	0.917	2.800	1.750	0.500	0.175	0.100
00620	NITROGEN NITRATE MG/L AS N	6	0.000	--	--	--	--	--	--	--

Supplement 30. Statistical summary of water-quality data for the Lower Red Lake near Red Lake, Minn., gaging station 05074000, May 1962 through April 1965--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptiva statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, May 1962 through April 1965--Continued							
00630	NO2 + NO3 TOTAL (MG/L AS N)	6	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	6	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	6	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	6	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	6	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	6	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	6	0.200	0.000	0.042	0.200	0.080	0.005	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	6	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	6	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	6	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	6	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	6	0.000	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	6	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	6	15.000	4.800	10.317	15.000	14.250	10.650	6.300	4.800
00690	CARBON INORG + O (MG/L AS C)	6	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	6	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	6	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	6	0.000	--	--	--	--	--	--	--
01105	ALUMINUM TOTAL UG/L AS AL	4	1000.000	0.000	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	6	100.000	30.000	48.333	100.000	55.000	40.000	37.500	30.000
71885	IRON UG/L AS FE	6	30.000	10.000	21.667	30.000	30.000	20.000	17.500	10.000
01055	MANGANESE TOTAL (UG/L AS MN)	6	30.000	0.000	16.667	30.000	30.000	15.000	7.500	0.000
80156	SUS-SED DISCH + T/DAY	6	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	6	0.000	--	--	--	--	--	--	--

Supplement 31. Statistical summary of water-quality data for the Red Lake River at High Landing near Goodridge, Minn., gaging station 05075000, April 1979 through September 2000

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptiva statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, April 1979 through September 2000							
00065	GAGE HEIGHT (FEET)	5	8.680	5.540	--	--	--	--	--	--
00061	DISCHARGE, INST. CFS	7	3640.000	668.000	1516.714	3640.000	2130.000	927.000	762.000	668.000
00540	RESIDUE FIXED (MG/L)	7	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	7	0.000	--	--	--	--	--	--	--
70302	DISSOLVED SOLIDS TONS/DAY	7	0.000	--	--	--	--	--	--	--
70301	DISSOLVED SOLIDS MG/L	7	0.000	--	--	--	--	--	--	--
00076	TURBIDITY (NTU)	5	9.400	1.300	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	5	743.000	726.000	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	5	14.000	9.500	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	7	100.000	0.000	66.143	100.000	94.000	90.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	5	8.300	7.900	--	--	--	--	--	--
00095	SPECIFIC CONDUCT US/CM @ 25C	5	311.000	275.000	--	--	--	--	--	--
00020	AIR TEMPERATURE DEGREES C	4	15.000	-15.000	--	--	--	--	--	--
00010	WATER TEMPERATUR (DEGREES C)	7	10.200	-0.200	5.171	10.200	10.200	6.000	0.000	-0.200
00904	HARDNESS NC. DIS (MG/L AS CACO3	7	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	7	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	7	0.000	--	--	--	--	--	--	--
00903	NONCARBONATE HAR (MG/L AS CACO3	7	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	7	0.000	--	--	--	--	--	--	--
00931	SODIUM ADSORPTIO (RATIO)	7	0.000	--	--	--	--	--	--	--
00932	SODIUM, PERCENT PERCENT	7	0.000	--	--	--	--	--	--	--
00435	ACIDITY TOTAL (MG/L AS CACO3	7	0.000	--	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	7	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	7	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	7	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	7	0.000	--	--	--	--	--	--	--
71851	NITR. NO3 AS NO3 MG/L AS NO3	7	0.000	--	--	--	--	--	--	--
00620	NITROGEN NITRATE MG/L AS N	7	0.000	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	7	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	7	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	7	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	7	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	7	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	7	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	7	0.000	--	--	--	--	--	--	--

Supplement 31. Statistical summary of water-quality data for the Red Lake River at High Landing near Goodridge, Minn., gaging station 05075000, April 1979 through September 2000--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, April 1979 through September 2000--Continued							
00650	PHOSPHATE TOTAL (MG/L AS PO4)	7	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	7	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	7	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	7	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	7	0.000	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	7	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	7	0.000	--	--	--	--	--	--	--
00681	CARBON ORGANIC D (MG/L AS C)	5	20.000	14.000	--	--	--	--	--	--
00680	CARBON ORGANIC T (MG/L AS C)	5	21.000	14.000	--	--	--	--	--	--
00690	CARBON INORG + O (MG/L AS C)	7	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	7	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	7	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	7	0.000	--	--	--	--	--	--	--
70342	SED-SUSP-FALL-D- %	2	80.000	76.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	7	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	2	43.000	21.000	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	7	423.000	0.000	77.714	423.000	121.000	0.000	0.000	0.000

Supplement 32. Statistical summary of water-quality data for the Clearwater River at Red Lake Falls, Minn., gaging station 05078500, August 1992 through March 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	Minnesota data, August 1992 through March 2001									
00065	GAGE HEIGHT (FEET)	1	3.820	--	--	--	--	--	--	--
00060	DISCHARGE CFS	1	1140.000	--	--	--	--	--	--	--
00061	DISCHARGE, INST. CFS	1	139.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	1	0.500	--	--	--	--	--	--	--
70302	DISSOLVED SOLIDS TONS/DAY	1	1120.000	--	--	--	--	--	--	--
70300	RESIDUE DIS 180C MG/L	1	365.000	--	--	--	--	--	--	--
70301	DISSOLVED SOLIDS MG/L	1	313.000	--	--	--	--	--	--	--
00076	TURBIDITY (NTU)	1	3.500	--	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	2	740.000	738.000	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	2	10.200	7.700	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	1	89.100	--	--	--	--	--	--	--
00400	PH, WH, FIELD (STANDARD UNIT	2	8.100	7.400	--	--	--	--	--	--
00403	PH, WH, LABORATO (STANDARD UNIT	1	7.900	--	--	--	--	--	--	--
90095	SPECIFIC CONDUCT MICROSIEMENS/C	1	538.000	--	--	--	--	--	--	--
00095	SPECIFIC CONDUCT US/CM @ 25C	2	548.000	537.000	--	--	--	--	--	--
00020	AIR TEMPERATURE DEGREES C	2	14.500	2.000	--	--	--	--	--	--
00010	WATER TEMPERATUR (DEGREES C)	1	21.000	--	--	--	--	--	--	--
00904	HARDNESS NC. DIS (MG/L AS CACO3	1	60.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	1	279.000	--	--	--	--	--	--	--
00915	CALCIUM DISSOLVE (MG/L AS CA)	1	69.000	--	--	--	--	--	--	--
00925	MAGNESIUM DISSOL (MG/L AS MG)	1	26.000	--	--	--	--	--	--	--
00935	POTASSIUM DISSOL (MG/L AS K)	1	4.500	--	--	--	--	--	--	--
00931	SODIUM ADSORPTIO (RATIO)	1	0.185	--	--	--	--	--	--	--
00930	SODIUM DISSOLVED (MG/L AS NA)	1	7.100	--	--	--	--	--	--	--
00932	SODIUM, PERCENT PERCENT	1	5.140	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	1	233.000	--	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	1	219.000	--	--	--	--	--	--	--
00453	BICARBONATE,DIS, (MG/L AS HCO3)	1	267.000	--	--	--	--	--	--	--
00452	CARBONATE,DIS,IT (MG/L AS CO3)	1	0.000	--	--	--	--	--	--	--
00940	CHLORIDE DISSOLV (MG/L AS CL)	1	7.500	--	--	--	--	--	--	--
00950	FLUORIDE DISSOLV (MG/L AS F)	1	0.200	--	--	--	--	--	--	--
00955	SILICA DISSOLVED (MG/L AS SIO2)	1	19.000	--	--	--	--	--	--	--
00945	SULFATE DISSOLVE (MG/L AS SO4)	1	46.000	--	--	--	--	--	--	--
00608	NITROGEN AMMONIA (MG/L AS N)	1	0.060	--	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	1	1.200	--	--	--	--	--	--	--

Supplement 32. Statistical summary of water-quality data for the Clearwater River at Red Lake Falls, Minn., gaging station 05078500, August 1992 through March 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, August 1992 through March 2001--Continued							
00625	NITROGEN AMM+ORG (MG/L AS N)	1	1.500	--	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	1	0.077	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	1	1.620	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	1	0.350	--	--	--	--	--	--	--
71851	NITR. NO3 AS NO3 MG/L AS NO3	1	1.550	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	1	0.420	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	1	0.230	--	--	--	--	--	--	--
00613	NITROGEN,NITRITE MG/L AS N	1	0.070	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	1	1.140	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	1	1.440	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	1	1.920	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	1	0.276	--	--	--	--	--	--	--
00666	PHOSPHORUS DISS. (MG/L AS P)	1	0.070	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	1	0.090	--	--	--	--	--	--	--
00665	PHOSPHORUS TOTAL (MG/L AS P)	1	0.130	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	1	3.300	--	--	--	--	--	--	--
00681	CARBON ORGANIC D (MG/L AS C)	2	18.000	11.000	--	--	--	--	--	--
00689	CARBON ORGANIC P (MG/L AS C)	1	2.500	--	--	--	--	--	--	--
00680	CARBON ORGANIC T (MG/L AS C)	1	11.000	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	1	60.000	--	--	--	--	--	--	--
01056	MANGANESE DISSOL (UG/L AS MN)	1	8.000	--	--	--	--	--	--	--
49295	1-NAPHTHOL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39742	2,4,5-T DISSOLVE UG/L	1	--	--	--	--	--	--	--	--
39732	2,4-D DISSOLVED UG/L	1	--	--	--	--	--	--	--	--
38746	2,4-DB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82660	26DIETHYLANILINE (UG/L)	1	--	--	--	--	--	--	--	--
49308	3HYDRXYCARBOFURA (UG/L)	1	--	--	--	--	--	--	--	--
49260	ACETOCHLOR FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49315	ACIFLUORFEN FLTR (UG/L)	1	--	--	--	--	--	--	--	--
46342	ALACHLOR, DISS, UG/L	1	--	--	--	--	--	--	--	--
49313	ALDICARB SULFONE (UG/L)	1	--	--	--	--	--	--	--	--
49314	ALDICARB SULFOXI (UG/L)	1	--	--	--	--	--	--	--	--
49312	ALDICARB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
34253	ALPHA BHC UG/L	1	--	--	--	--	--	--	--	--
39632	ATRAZINE, DISS, UG/L	1	0.057	--	--	--	--	--	--	--

Supplement 32. Statistical summary of water-quality data for the Clearwater River at Red Lake Falls, Minn., gaging station 05078500, August 1992 through March 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, August 1992 through March 2001--Continued							
82673	BENFLURALIN FIL (UG/L)	1	--	--	--	--	--	--	--	--
38711	BENTAZON, FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04029	BROMACIL DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
49311	BROMOXYNIL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04028	BUTYLATE DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
49310	CARBARYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82680	CARBARYL FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
49309	CARBOFURAN FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82674	CARBOFURAN FIL. (UG/L)	1	0.029	--	--	--	--	--	--	--
61188	CHLORAMBEN, METH (UG/L)	1	--	--	--	--	--	--	--	--
49306	CHLOROTHALONIL F (UG/L)	1	--	--	--	--	--	--	--	--
38933	CHLORPYRIFOS, DI UG/L	1	--	--	--	--	--	--	--	--
49305	CLOPYRALID FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04041	CYANAZINE DISS R (UG/L)	1	0.014	--	--	--	--	--	--	--
49304	DACTHAL MONO-ACI (UG/L)	1	--	--	--	--	--	--	--	--
82682	DCPA FIL 0.7 REC (UG/L)	1	--	--	--	--	--	--	--	--
04040	DEETHYL ATRAZINE (UG/L)	1	0.011	--	--	--	--	--	--	--
39572	DIAZINON DISSOLV UG/L	1	--	--	--	--	--	--	--	--
38442	DICAMBA FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49303	DICHLOBENIL FLTR (UG/L)	1	--	--	--	--	--	--	--	--
49302	DICHLORPRO FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39381	DIELDRIN DISSOLV UG/L	1	--	--	--	--	--	--	--	--
49301	DINOSEB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82677	DISULFOTON FIL. (UG/L)	1	--	--	--	--	--	--	--	--
49300	DIURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49299	DNOC FLTD (UG/L)	1	--	--	--	--	--	--	--	--
82668	EPTC FIL 0.7 REC (UG/L)	1	--	--	--	--	--	--	--	--
49298	ESFENVALERATE FL (UG/L)	1	--	--	--	--	--	--	--	--
82663	ETHALFLURALIN FI (UG/L)	1	--	--	--	--	--	--	--	--
82672	ETHOPROP FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
49297	FENURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38811	FLUOMETURON FLT (UG/L)	1	--	--	--	--	--	--	--	--
04095	FONOFOX DISS REC (UG/L)	1	--	--	--	--	--	--	--	--
39341	LINDANE DISSOLVE UG/L	1	--	--	--	--	--	--	--	--
38478	LINURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--

Supplement 32. Statistical summary of water-quality data for the Clearwater River at Red Lake Falls, Minn., gaging station 05078500, August 1992 through March 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constitaent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, August 1992 through March 2001--Continued							
82666	LINURON FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
39532	MALATHION DISSOL UG/L	1	--	--	--	--	--	--	--	--
38482	MCPA FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38487	MCPB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38501	METHIOCARB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49296	METHOMYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82686	METHYL AZINPHOS (UG/L)	1	--	--	--	--	--	--	--	--
82667	METHYL PARATHION (UG/L)	1	--	--	--	--	--	--	--	--
39415	METOLACHLOR,WAT. UG/L	1	0.002	--	--	--	--	--	--	--
82630	METRIBUZIN,WAT.D UG/L	1	0.004	--	--	--	--	--	--	--
82671	MOLINATE FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82684	NAPROPAMIDE FIL (UG/L)	1	--	--	--	--	--	--	--	--
49294	NEBURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49293	NORFLURAZON FLTR (UG/L)	1	--	--	--	--	--	--	--	--
49292	ORYZALIN FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38866	OXAMYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
34653	P,P' DDE DISSOLV (UG/L)	1	--	--	--	--	--	--	--	--
39542	PARATHION DISSOL UG/L	1	--	--	--	--	--	--	--	--
82669	PEBULATE FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82683	PENDIMETHALIN F. (UG/L)	1	--	--	--	--	--	--	--	--
82687	PERMETHRIN FIL. (UG/L)	1	--	--	--	--	--	--	--	--
82664	PHORATE FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
04037	PROMETON DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
82676	PRONAMIDE FIL .7 (UG/L)	1	--	--	--	--	--	--	--	--
04024	PROPACHLOR DISS (UG/L)	1	--	--	--	--	--	--	--	--
82679	PROPANIL FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82685	PROPARGITE FIL. (UG/L)	1	--	--	--	--	--	--	--	--
49236	PROPHAM FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38538	PROPOXUR FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39762	SILVEX DISSOLVED UG/L	1	--	--	--	--	--	--	--	--
04035	SIMAZINE DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
82670	TEBUTHIURON FIL (UG/L)	1	--	--	--	--	--	--	--	--
82665	TERBACIL FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82675	TERBUFOS FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82681	THIOBENCARB FIL (UG/L)	1	--	--	--	--	--	--	--	--

Supplement 32. Statistical summary of water-quality data for the Clearwater River at Red Lake Falls, Minn., gaging station 05078500, August 1992 through March 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, August 1992 through March 2001—Continued							
82678	TRIALLATE FIL .7 (UG/L)	1	--	--	--	--	--	--	--	--
49235	TRICLOPYR FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82661	TRIFLURALIN FIL (UG/L)	1	--	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	1	78.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	2	79.000	44.000	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	2	135.000	30.000	--	--	--	--	--	--
80294	BED MAT FD DW<.0 PERCENT <.002M	1	18.000	--	--	--	--	--	--	--
80157	SED-BED-FALL-D-. %	1	21.000	--	--	--	--	--	--	--
80293	BED MAT FD DW<.0 PERCENT> .008M	1	22.000	--	--	--	--	--	--	--
80282	BED MAT FD DW<.0 PERCENT <.016M	1	27.000	--	--	--	--	--	--	--
80283	BED MAT FD DW<.0 PERCENT <.031M	1	36.000	--	--	--	--	--	--	--
80158	SED-BED-FALL-D-. %	1	49.000	--	--	--	--	--	--	--
80159	SED-BED-FALL-D-. %	1	72.000	--	--	--	--	--	--	--
80160	SED-BED-FALL-D-. %	1	87.000	--	--	--	--	--	--	--
80161	SED-BED-FALL-D-. %	1	93.000	--	--	--	--	--	--	--
80162	SED-BED-FALL-D-1 %	1	100.000	--	--	--	--	--	--	--

Supplement 33. Statistical summary of water-quality data for the Red Lake River at Crookston, Minn., gaging station 05079000, April 1962 through September 2000

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, April 1962 through September 2000							
00065	GAGE HEIGHT (FEET)	9	19.280	4.900	7.841	19.280	8.430	5.900	5.320	4.900
00060	DISCHARGE CFS	42	8000.000	374.000	1650.810	5937.497	2037.500	1040.000	663.250	411.100
00061	DISCHARGE, INST. CFS	156	20200.000	6.000	1518.744	4462.000	1552.500	976.000	467.250	102.650
00080	COLOR PLATINUM-COBAL	54	90.000	4.000	22.907	55.000	30.000	20.000	12.000	5.000
00540	RESIDUE FIXED (MG/L)	193	0.000	--	--	--	--	--	--	--
00520	RESIDUE VOLATILE (MG/L)	14	128.000	7.000	87.857	128.000	103.250	96.000	81.250	7.000
70303	RESIDUE DIS TON/ T/AC-FT	193	0.630	0.000	0.328	0.500	0.400	0.350	0.300	0.000
70302	DISSOLVED SOLIDS TONS/DAY	193	5930.000	0.000	777.627	2462.001	1004.500	558.000	149.500	0.000
70300	RESIDUE DIS 180C MG/L	176	463.000	145.000	267.648	368.900	302.250	262.500	230.250	191.000
70301	DISSOLVED SOLIDS MG/L	193	474.000	0.000	213.995	320.900	265.000	225.000	192.000	0.000
00076	TURBIDITY (NTU)	100	95.000	0.600	10.913	49.500	12.000	4.750	3.000	0.810
00025	AIR PRESSURE (MM OF HG)	100	786.000	718.000	742.840	772.950	746.000	740.000	736.000	724.200
00300	OXYGEN DISSOLVED (MG/L)	116	14.100	5.700	10.307	13.915	12.275	10.200	8.325	7.100
00301	OXYGEN DIS. PERC % OF SATURATIO	193	127.000	0.000	53.979	103.000	94.000	80.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	171	8.700	6.900	8.019	8.600	8.300	8.100	7.700	7.300
00403	PH, WH, LABORATO (STANDARD UNIT	105	8.600	7.200	8.034	8.500	8.200	8.000	7.850	7.500
90095	SPECIFIC CONDUCT MICROSIEMENS/C	104	743.000	278.000	437.125	575.250	488.500	429.500	382.000	324.250
00095	SPECIFIC CONDUCT US/CM @ 25C	179	730.000	195.000	408.603	562.000	453.0t00	395.000	358.000	297.000
00020	AIR TEMPERATURE DEGREES C	99	30.000	-20.000	9.582	27.000	21.000	11.500	1.000	-17.000
00010	WATER TEMPERATUR (DEGREES C)	170	28.500	0.000	9.282	25.000	18.025	6.500	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	193	97.000	0.000	14.269	75.600	23.500	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	193	0.000	--	--	--	--	--	--	--
95902	HARDNESS, NONCAR (MG/L AS CACO3	16	65.000	0.000	34.125	65.000	61.000	37.500	11.750	0.000
00902	NONCARBONATE HAR (MG/L AS CACO3	193	120.000	0.000	10.689	69.300	6.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	193	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	193	390.000	0.000	192.280	280.000	235.000	200.000	175.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	175	94.000	25.000	52.279	70.000	58.000	52.000	46.000	37.800
00925	MAGNESIUM DISSOL (MG/L AS MG)	175	38.000	8.400	19.668	28.000	22.000	19.000	16.000	13.000
00935	POTASSIUM DISSOL (MG/L AS K)	176	9.800	0.100	3.504	5.315	4.175	3.300	2.700	2.000
00931	SODIUM ADSORPTIO (RATIO)	193	0.400	0.000	0.155	0.300	0.200	0.200	0.100	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	6	6.900	5.500	6.283	6.900	6.900	6.400	5.575	5.500
00930	SODIUM DISSOLVED (MG/L AS NA)	176	15.000	2.300	5.870	11.000	6.600	5.100	4.300	3.300
00932	SODIUM, PERCENT PERCENT	193	14.000	0.000	4.948	8.300	6.000	5.000	4.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	193	0.000	--	--	--	--	--	--	--
99430	ANC, CARB, IT, F MG/L	5	187.000	162.000	--	--	--	--	--	--

Supplement 33. Statistical summary of water-quality data for the Red Lake River at Crookston, Minn., gaging station 05079000, April 1962 through September 2000--Continued

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90410	ANC, TIT. 4.5, L MG/L AS CACO3	102	308.000	97.000	190.804	280.000	203.000	188.000	174.000	126.000
00418	ALKALINITY,DIS,F (MG/L AS CACO3	1	183.000	--	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	65	305.000	84.000	189.738	276.300	200.000	188.000	174.000	119.600
00410	ANC, FET, FIELD (MG/L AS CACO3	72	212.000	80.000	167.417	200.000	184.750	171.000	156.000	118.400
00417	ANC, FET, LAB (MG/L AS CACO3	1	197.000	--	--	--	--	--	--	--
99440	BICARBONATE MG/L AS HCO3	5	228.000	198.000	--	--	--	--	--	--
00453	BICARBONATE,DIS, (MG/L AS HCO3)	65	372.000	102.000	227.369	336.700	243.000	222.000	207.000	146.200
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	55	260.000	98.000	198.873	244.000	220.000	210.000	190.000	120.000
99445	CARBONATE MG/L AS CO3	5	2.000	0.000	--	--	--	--	--	--
00452	CARBONATE,DIS,IT (MG/L AS CO3)	66	20.000	0.000	2.045	10.650	1.000	0.000	0.000	0.000
00445	ANC CARB FET FIE (MG/L AS CO3)	47	0.000	--	--	--	--	--	--	--
00940	CHLORIDE DISSOLV (MG/L AS CL)	176	12.000	0.000	4.543	9.615	5.600	3.850	2.900	2.085
00950	FLUORIDE DISSOLV (MG/L AS F)	176	0.400	0.000	0.160	0.300	0.200	0.100	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	176	22.000	0.400	7.778	16.000	10.000	7.600	4.900	2.085
00945	SULFATE DISSOLVE (MG/L AS SO4)	176	125.000	7.000	37.406	88.150	50.750	32.000	18.250	9.985
00608	NITROGEN AMMONIA (MG/L AS N)	112	0.730	--	*0.074	*0.264	*0.080	*0.035	*0.020	*0.005
99894	NH3+ORG N DIS JI	1	1.400	--	--	--	--	--	--	--
99892	NH3+ORG N MOD JI	1	1.400	--	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	47	1.600	0.280	0.849	1.520	0.980	0.780	0.700	0.488
00624	NITROGEN SUSPEND (MG/L AS N)	22	0.470	0.000	0.138	0.464	0.213	0.115	0.010	0.000
00625	NITROGEN AMM+ORG (MG/L AS N)	132	2.600	0.400	1.060	1.900	1.200	0.900	0.800	0.607
71846	NITR. NH4 AS NH4 MG/L AS NH4	193	0.940	0.000	0.055	0.286	0.050	0.010	0.000	0.000
00610	NITROGEN AMMONIA (MG/L AS N)	65	0.880	0.000	0.098	0.469	0.095	0.040	0.030	0.010
71845	NITROGEN, NH4, T MG/L AS NH4	193	1.100	0.000	0.042	0.223	0.040	0.000	0.000	0.000
00602	NITROGEN DISSOLV (MG/L AS N)	193	3.700	0.000	0.195	1.230	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	193	2.310	0.000	0.042	0.233	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	193	10.200	0.000	0.359	1.903	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	193	1.400	0.000	0.013	0.040	0.000	0.000	0.000	0.000
71850	N, NITRATE TOTAL MG/L AS NO3	6	8.500	0.300	2.217	8.500	3.925	0.900	0.300	0.300
00631	NO2 + NO3 DISSOL (MG/L AS N)	119	2.400	--	*0.164	*0.610	*0.190	*0.074	*0.029	*0.010
00630	NO2 + NO3 TOTAL (MG/L AS N)	180	1.500	0.000	0.051	0.295	0.075	0.000	0.000	0.000
71856	NITR. NO2 AS NO2 MG/L AS NO2	193	0.296	0.000	0.009	0.066	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	75	0.090	--	*0.009	*0.040	*0.010	*0.004	*0.001	*0.000
00615	NITROGEN,NITRITE MG/L AS N	22	0.120	--	*0.015	*0.105	*0.020	*0.010	*0.004	*0.001
00607	NITROGEN ORGANIC (MG/L AS N)	193	1.400	0.000	0.140	0.879	0.000	0.000	0.000	0.000

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00605	NITROGEN ORGANIC (MG/L AS N)	193	1.900	0.000	0.481	1.300	0.860	0.560	0.000	0.000
00600	NITROGEN TOTAL (MG/L AS N)	193	4.000	0.000	0.584	2.090	1.000	0.000	0.000	0.000
71887	NITROGEN, TOTAL MG/L AS NO3	193	12.000	0.000	1.213	6.750	0.000	0.000	0.000	0.000
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	193	0.680	0.000	0.040	0.184	0.060	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	193	0.970	0.000	0.011	0.040	0.000	0.000	0.000	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	120	0.970	--	*0.041	*0.109	*0.040	*0.020	*0.010	*0.004
00672	PHOSPHORUS HYDRO (MG/L AS P)	193	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	193	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	193	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	193	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	98	0.200	--	*0.021	*0.082	*0.020	*0.010	*0.005	*0.001
70507	PHOS ORTHO TOT A MG/L AS P	13	0.060	--	*0.021	*0.060	*0.030	*0.010	*0.010	*0.003
00665	PHOSPHORUS TOTAL (MG/L AS P)	147	1.100	0.010	0.084	0.256	0.080	0.050	0.030	0.010
71886	PHOSPHORUS TOT P MG/L AS PO4	35	3.400	0.090	0.311	1.248	0.280	0.180	0.120	0.090
99893	TOT P DISS MOD J	1	0.087	--	--	--	--	--	--	--
99891	TOT P, WH, MOD J	1	0.100	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	193	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	193	42.000	0.000	4.383	18.000	5.600	2.100	1.150	0.000
00681	CARBON ORGANIC D (MG/L AS C)	24	69.000	3.400	17.850	59.000	18.000	16.000	13.250	5.300
00689	CARBON ORGANIC P (MG/L AS C)	18	2.900	0.300	1.233	2.900	1.525	1.100	0.700	0.300
00680	CARBON ORGANIC T (MG/L AS C)	13	18.000	9.400	13.262	18.000	15.000	13.000	12.000	9.400
00690	CARBON INORG + O (MG/L AS C)	193	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	193	0.000	--	--	--	--	--	--	--
00572	BIOMASS, PERIPHY (G/SQ M)	3	0.551	0.080	--	--	--	--	--	--
00573	BIOMASS PERIPHYT (G/SQ M)	3	0.709	0.080	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	193	236.000	0.000	1.223	0.000	0.000	0.000	0.000	0.000
70949	BIO CHL RATIO PL UNITS	193	0.000	--	--	--	--	--	--	--
60050	PHYTO TYPE-I CELLS/ML	15	63000.000	590.000	19348.666	63000.000	40000.000	8000.000	3900.000	590.000
31625	COLIFORM FECAL 0 COLS./100 ML	95	7400.000	2.000	510.705	3420.000	210.000	49.000	16.000	5.000
31673	FECAL STREP,KF M COLS./100 ML	95	3300.000	6.000	389.705	2000.000	430.000	170.000	35.000	11.600
70957	CHL-A PR CH-FL M MG/M2	3	0.700	0.100	--	--	--	--	--	--
70958	CHL-B PR CH-FL M MG/M2	2	0.200	0.000	--	--	--	--	--	--
01106	ALUMINUM DISSOLV (UG/L AS AL)	46	60.000	--	*10.193	*43.000	*10.000	*6.037	*2.958	*1.051
01105	ALUMINUM TOTAL UG/L AS AL	20	1600.000	0.000	390.000	1550.001	475.000	350.000	225.000	5.000
01000	ARSENIC DISSOLVE (UG/L AS AS)	51	6.000	--	*2.107	*4.400	*3.000	*2.000	*1.000	*0.629

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01001	ARSENIC SUSPENDE (UG/L AS AS)	12	4.000	0.000	0.917	4.000	1.750	0.500	0.000	0.000
01002	ARSENIC TOTAL (UG/L AS AS)	16	8.000	1.000	3.188	8.000	4.000	3.000	2.000	1.000
01005	BARIUM DISSOLVED (UG/L AS BA)	64	100.000	--	*57.534	*78.750	*63.750	*57.000	*49.250	*41.250
01006	BARIUM SUSPENDED (UG/L AS BA)	14	50.000	--	*35.472	*50.000	*40.000	*36.288	*29.770	*25.538
01007	BARIUM TOTAL (UG/L AS BA)	16	100.000	--	*100.000	*100.000	*100.000	*100.000	*100.000	*100.000
01010	BERYLLIUM DISSOL (UG/L AS BE)	36	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	49	310.000	--	*58.842	*95.000	*70.000	*50.000	*40.000	*22.333
01022	BORON TOTAL (UG/L AS B)	6	60.000	30.000	43.333	60.000	52.500	45.000	30.000	30.000
01025	CADMIUM DISSOLVE (UG/L AS CD)	53	4.000	--	*0.509	*2.000	*0.579	*0.284	*0.130	*0.046
01026	CADMIUM SUSPENDE (UG/L AS CD)	11	18.000	0.000	1.818	18.000	1.000	0.000	0.000	0.000
01027	CADMIUM TOTAL (UG/L AS CD)	14	4.000	--	*1.025	*4.000	*1.033	*0.889	*0.413	*0.240
01030	CHROMIUM DISSOLV (UG/L AS CR)	51	30.000	--	*4.660	*20.000	*10.000	*1.340	*0.611	*0.167
01032	CHROMIUM HEXAVAL (UG/L AS CR)	1	0.000	--	--	--	--	--	--	--
01031	CHROMIUM SUSPEND (UG/L AS CR)	15	50.000	0.000	10.600	50.000	10.000	10.000	0.000	0.000
01034	CHROMIUM TOTAL (UG/L AS CR)	16	60.000	--	*21.336	*60.000	*27.500	*20.000	*10.136	*8.089
01035	COBALT DISSOLVED (UG/L AS CO)	65	3.000	--	*1.027	*2.047	*1.244	*0.898	*0.645	*0.397
01036	COBALT SUSPENDED (UG/L AS CO)	12	5.000	0.000	1.250	5.000	2.500	0.500	0.000	0.000
01037	COBALT TOTAL (UG/L AS CO)	15	7.000	--	*1.764	*7.000	*2.000	*1.000	*0.434	*0.182
01040	COPPER DISSOLVED (UG/L AS CU)	53	16.000	--	*2.596	*8.700	*3.000	*2.000	*1.000	*0.521
01041	COPPER SUSPENDED (UG/L AS CU)	15	4.000	0.000	1.533	4.000	2.000	1.000	0.000	0.000
01042	COPPER TOTAL (UG/L AS CU)	15	6.000	2.000	3.800	6.000	6.000	4.000	2.000	2.000
00720	CYANIDE TOTAL (MG/L AS CN)	1	0.000	--	--	--	--	--	--	--
71865	IODIDE DISSOLVED MG/L AS I	1	0.004	--	--	--	--	--	--	--
71885	IRON UG/L AS FE	16	140.000	20.000	72.500	140.000	102.500	70.000	42.500	20.000
01046	IRON DISSOLVED (UG/L AS FE)	101	220.000	10.000	36.337	110.000	45.000	20.000	10.000	10.000
01044	IRON SUSPENDED (UG/L AS FE)	16	1500.000	140.000	539.375	1500.000	707.500	420.000	315.000	140.000
01045	IRON TOTAL (UG/L AS FE)	37	2100.000	10.000	473.784	1920.000	580.000	350.000	115.000	19.000
01049	LEAD DISSOLVED (UG/L AS PB)	53	5.000	--	*1.374	*4.300	*1.885	*1.000	*0.565	*0.294
01050	LEAD SUSPENDED (UG/L AS PB)	15	250.000	0.000	32.733	250.000	8.000	2.000	0.000	0.000
01051	LEAD TOTAL (UG/L AS PB)	14	210.000	--	*18.390	*210.000	*7.250	*3.000	*1.000	*0.502
01130	LITHIUM DISSOLVE (UG/L AS LI)	48	37.000	4.000	13.188	22.100	16.000	13.000	9.000	4.900
01056	MANGANESE DISSOL (UG/L AS MN)	101	79.000	--	*18.872	*53.700	*25.000	*13.000	*7.309	*4.030
01054	MANGANESE SUSPEN (UG/L AS MN)	16	140.000	10.000	55.625	140.000	77.500	50.000	30.000	10.000
01055	MANGANESE TOTAL (UG/L AS MN)	54	270.000	0.000	63.889	167.500	92.500	50.000	30.000	0.000
71890	MERCURY DISSOLVE UG/L AS HG	49	2.000	--	*0.120	*0.650	*0.100	*0.024	*0.007	*0.001

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71895	MERCURY SUSPENDE UG/L AS HG	12	--	--	--	--	--	--	--	--
71900	MERCURY, TOT.REC UG/L AS HG	16	0.700	--	*0.193	*0.700	*0.200	*0.106	*0.071	*0.029
01060	MOLYBDENUM DISSO (UG/L AS MO)	48	--	--	--	--	--	--	--	--
01065	NICKEL DISSOLVED (UG/L AS NI)	60	7.000	--	*1.569	*3.950	*2.000	*1.000	*0.725	*0.349
01066	NICKEL SUSPENDED (UG/L AS NI)	11	3.000	0.000	1.636	3.000	2.000	2.000	1.000	0.000
01067	NICKEL TOTAL (UG/L AS NI)	11	8.000	2.000	3.909	8.000	5.000	4.000	2.000	2.000
01145	SELENIUM DISSOLV (UG/L AS SE)	63	--	--	--	--	--	--	--	--
01146	SELENIUM SUSPEND (UG/L AS SE)	11	0.000	--	--	--	--	--	--	--
01147	SELENIUM TOTAL (UG/L AS SE)	16	--	--	--	--	--	--	--	--
01075	SILVER DISSOLVED (UG/L AS AG)	64	--	--	--	--	--	--	--	--
01076	SILVER SUSPENDED (UG/L AS AG)	11	0.000	--	--	--	--	--	--	--
01077	SILVER TOTAL (UG/L AS AG)	19	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	48	180.000	75.000	126.667	175.500	150.000	120.000	110.000	84.000
01085	VANADIUM DISSOLV (UG/L AS V)	48	--	--	--	--	--	--	--	--
01090	ZINC DISSOLVED (UG/L AS ZN)	53	90.000	--	*14.203	*52.800	*16.000	*10.000	*5.000	*2.155
01091	ZINC SUSPENDED (UG/L AS ZN)	15	40.000	0.000	22.667	40.000	40.000	20.000	10.000	0.000
01092	ZINC TOTAL (UG/L AS ZN)	16	100.000	10.000	38.125	100.000	50.000	35.000	20.000	10.000
49295	1-NAPHTHOL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
39742	2,4,5-T DISSOLVE UG/L	3	--	--	--	--	--	--	--	--
39732	2,4-D DISSOLVED UG/L	3	--	--	--	--	--	--	--	--
38746	2,4-DB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82660	26DIETHYLANILINE (UG/L)	4	--	--	--	--	--	--	--	--
49308	3HYDRXYCARBOFURA (UG/L)	3	--	--	--	--	--	--	--	--
49260	ACETOCHLOR FLTRD (UG/L)	2	--	--	--	--	--	--	--	--
49315	ACIFLUORFEN FLTR (UG/L)	3	--	--	--	--	--	--	--	--
46342	ALACHLOR, DISS, UG/L	4	--	--	--	--	--	--	--	--
49313	ALDICARB SULFONE (UG/L)	3	--	--	--	--	--	--	--	--
49314	ALDICARB SULFOXI (UG/L)	3	--	--	--	--	--	--	--	--
49312	ALDICARB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
34253	ALPHA BHC UG/L	4	--	--	--	--	--	--	--	--
39632	ATRAZINE, DISS, UG/L	4	0.120	0.017	--	--	--	--	--	--
82673	BENFLURALIN FIL (UG/L)	4	--	--	--	--	--	--	--	--
38711	BENTAZON, FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
04029	BROMACIL DISS RE (UG/L)	3	--	--	--	--	--	--	--	--
49311	BROMOXYNIL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--

Supplement 33. Statistical summary of water-quality data for the Red Lake River at Crookston, Minn., gaging station 05079000, April 1962 through September 2000--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, April 1962 through September 2000–Continued							
04028	BUTYLATE DISS RE (UG/L)	4	--	--	--	--	--	--	--	--
49310	CARBARYL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82680	CARBARYL FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
49309	CARBOFURAN FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82674	CARBOFURAN FIL . (UG/L)	4	--	--	--	--	--	--	--	--
49307	CHLORAMBEN FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49306	CHLOROTHALONIL F (UG/L)	3	--	--	--	--	--	--	--	--
38933	CHLORPYRIFOS, DI UG/L	4	--	--	--	--	--	--	--	--
49305	CLOPYRALID FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
04041	CYANAZINE DISS R (UG/L)	4	--	--	--	--	--	--	--	--
49304	DACTHAL MONO-ACI (UG/L)	3	--	--	--	--	--	--	--	--
82682	DCPA FIL 0.7 REC (UG/L)	4	--	--	--	--	--	--	--	--
04040	DEETHYL ATRAZINE (UG/L)	4	0.016	0.006	--	--	--	--	--	--
39572	DIAZINON DISSOLV UG/L	4	--	--	--	--	--	--	--	--
38442	DICAMBA FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49303	DICHLOBENIL FLTR (UG/L)	3	--	--	--	--	--	--	--	--
49302	DICHLORPRO FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
39381	DIELDRIN DISSOLV UG/L	4	--	--	--	--	--	--	--	--
49301	DINOSEB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82677	DISULFOTON FIL . (UG/L)	4	--	--	--	--	--	--	--	--
49300	DIURON FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49299	DNOC FLTD (UG/L)	3	--	--	--	--	--	--	--	--
82668	EPTC FIL 0.7 REC (UG/L)	4	--	--	--	--	--	--	--	--
49298	ESFENVALERATE FL (UG/L)	3	--	--	--	--	--	--	--	--
82663	ETHALFLURALIN FI (UG/L)	4	--	--	--	--	--	--	--	--
82672	ETHOPROP FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
49297	FENURON FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
38811	FLUOMETURON FLT (UG/L)	3	--	--	--	--	--	--	--	--
04095	FONOFOX DISS REC (UG/L)	4	--	--	--	--	--	--	--	--
39341	LINDANE DISSOLVE UG/L	4	--	--	--	--	--	--	--	--
38478	LINURON FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82666	LINURON FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
39532	MALATHION DISSOL UG/L	4	--	--	--	--	--	--	--	--
38482	MCPA FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
38487	MCPB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--

Supplement 33. Statistical summary of water-quality data for the Red Lake River at Crookston, Minn., gaging station 05079000, April 1962 through September 2000--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
		Minnesota data, April 1962 through September 2000--Continued								
38501	METHIOCARB FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49296	METHOMYL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82686	METHYL AZINPHOS (UG/L)	4	--	--	--	--	--	--	--	--
82667	METHYL PARATHION (UG/L)	4	--	--	--	--	--	--	--	--
39415	METOLACHLOR,WAT. UG/L	4	--	--	--	--	--	--	--	--
82630	METRIBUZIN,WAT.D UG/L	4	--	--	--	--	--	--	--	--
82671	MOLINATE FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
82684	NAPROPAMIDE FIL (UG/L)	4	--	--	--	--	--	--	--	--
49294	NEBURON FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
49293	NORFLURAZON FLTR (UG/L)	3	--	--	--	--	--	--	--	--
49292	ORYZALIN FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
38866	OXAMYL FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
34653	P,P' DDE DISSOLV (UG/L)	4	--	--	--	--	--	--	--	--
39542	PARATHION DISSOL UG/L	4	--	--	--	--	--	--	--	--
82669	PEBULATE FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
82683	PENDIMETHALIN F. (UG/L)	4	--	--	--	--	--	--	--	--
82687	PERMETHRIN FIL . (UG/L)	4	--	--	--	--	--	--	--	--
82664	PHORATE FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
49291	PICLORAM FLTRD (UG/L)	2	--	--	--	--	--	--	--	--
04037	PROMETON DISS RE (UG/L)	4	--	--	--	--	--	--	--	--
82676	PRONAMIDE FIL .7 (UG/L)	4	--	--	--	--	--	--	--	--
04024	PROPACHLOR DISS (UG/L)	4	--	--	--	--	--	--	--	--
82679	PROPANIL FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
82685	PROPARGITE FIL . (UG/L)	4	--	--	--	--	--	--	--	--
49236	PROPHAM FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
38538	PROPOXUR FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
39762	SILVEX DISSOLVED UG/L	3	--	--	--	--	--	--	--	--
04035	SIMAZINE DISS RE (UG/L)	4	--	--	--	--	--	--	--	--
82670	TEBUTHIURON FIL (UG/L)	4	--	--	--	--	--	--	--	--
82665	TERBACIL FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
82675	TERBUFOS FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
82681	THIOBENCARB FIL (UG/L)	4	--	--	--	--	--	--	--	--
82678	TRIALLATE FIL .7 (UG/L)	4	--	--	--	--	--	--	--	--
49235	TRICLOPYR FLTRD (UG/L)	3	--	--	--	--	--	--	--	--
82661	TRIFLURALIN FIL (UG/L)	4	--	--	--	--	--	--	--	--

Supplement 33. Statistical summary of water-quality data for the Red Lake River at Crookston, Minn., gaging station 05079000, April 1962 through September 2000--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, April 1962 through September 2000--Continued							
82082	HYDROGEN 2 / 1 R RATIO PER MIL	1	-64.500	--	--	--	--	--	--	--
82085	OXYGEN 18 / 16 R RATIO PER MIL	1	-7.750	--	--	--	--	--	--	--
82068	POTSSSIUM 40 DIS (PCI/L AS K40)	5	3.400	2.500	--	--	--	--	--	--
07000	TRITIUM TOTAL (PCI/L)	1	67.000	--	--	--	--	--	--	--
75985	TRITIUM PREC EST PCI/L	1	6.400	--	--	--	--	--	--	--
70342	SED-SUSP-FALL-D- %	18	100.000	73.000	95.167	100.000	100.000	98.000	92.750	73.000
70331	SED-SUSP-SIEVE-. %	93	100.000	37.000	90.581	100.000	97.000	94.000	87.500	64.200
80156	SUS-SED DISCH + T/DAY	193	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	117	695.000	4.000	54.197	246.400	48.500	24.000	14.000	7.000
80155	DISCHARGE,SUSP.S T/DAY	193	37900.000	0.000	477.095	661.001	52.000	8.600	0.000	0.000

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, June 1949 through July 2001							
00065	GAGE HEIGHT (FEET)	3	45.560	17.550	--	--	--	--	--	--
00060	DISCHARGE CFS	477	106000.000	175.000	5484.585	21250.004	5345.000	2060.000	1100.000	388.400
00061	DISCHARGE, INST. CFS	451	80900.000	1.900	9412.947	37999.996	12100.000	3280.000	1370.000	284.000
00080	COLOR PLATINUM-COBAL	123	70.000	1.000	18.211	45.000	24.000	17.000	7.000	4.000
00540	RESIDUE FIXED (MG/L)	931	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	931	277.000	0.000	0.596	0.600	0.470	0.340	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	931	79700.000	0.000	2753.385	13340.002	2390.000	499.000	0.000	0.000
70299	RESIDUE SUSPEN 1 MG/L	2	140.000	130.000	--	--	--	--	--	--
70300	RESIDUE DIS 180C MG/L	508	570.000	158.000	343.530	460.100	385.750	336.500	303.000	234.900
70301	DISSOLVED SOLIDS MG/L	931	1890.000	0.000	85.793	381.800	214.000	0.000	0.000	0.000
61028	TURBIDITY, FIELD (NTU)	1	140.000	--	--	--	--	--	--	--
82079	TURBIDITY, LAB, NTU	2	110.000	92.000	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	32	786.000	727.000	742.281	762.600	743.000	742.000	739.000	730.250
00300	OXYGEN DISSOLVED (MG/L)	33	14.500	3.900	9.506	13.450	11.050	9.800	7.600	4.810
00301	OXYGEN DIS. PERC % OF SATURATIO	931	105.000	0.000	2.794	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	530	8.700	7.000	7.709	8.200	7.900	7.700	7.500	7.200
00403	PH, WH, LABORATO (STANDARD UNIT	54	9.300	6.700	7.876	8.725	8.100	7.900	7.600	7.100
90095	SPECIFIC CONDUCT MICROSIEMENS/C	64	851.000	274.000	555.078	804.250	632.500	559.000	463.000	336.000
00095	SPECIFIC CONDUCT US/CM @ 25C	899	1040.000	200.000	534.230	753.000	600.000	530.000	460.000	338.000
00020	AIR TEMPERATURE DEGREES C	278	33.000	-22.000	10.059	27.000	19.625	10.000	2.000	-10.050
00010	WATER TEMPERATUR (DEGREES C)	558	28.000	0.000	9.892	24.500	18.000	8.000	1.000	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	931	150.000	0.000	2.107	0.000	0.000	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	931	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	931	120.000	0.000	24.401	86.000	45.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	931	530.000	0.000	0.618	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	931	840.000	0.000	145.360	320.000	260.000	200.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	278	150.000	29.800	55.949	73.050	62.000	55.000	49.000	38.000
00918	CALCIUM TOT. REC (MG/L)	1	120.000	--	--	--	--	--	--	--
00925	MAGNESIUM DISSOL (MG/L AS MG)	277	110.000	5.700	25.982	37.100	30.000	25.000	22.000	14.900
00921	MAGNESIUM TOTAL (MG/L)	1	93.000	--	--	--	--	--	--	--
00935	POTASSIUM DISSOL (MG/L AS K)	247	60.000	0.800	5.694	8.520	6.200	5.200	4.400	3.320
00939	POTASSIUM TOTAL (MG/L)	1	9.800	--	--	--	--	--	--	--
00931	SODIUM ADSORPTIO (RATIO)	931	1.000	0.000	0.270	0.700	0.500	0.300	0.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	1	20.000	--	--	--	--	--	--	--
00930	SODIUM DISSOLVED (MG/L AS NA)	530	43.000	2.900	17.482	30.000	20.175	17.000	13.000	8.555

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

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			North Dakota data, June 1949 through July 2001--Continued							
00932	SODIUM, PERCENT PERCENT	931	24.000	0.000	6.449	17.000	13.000	6.000	0.000	0.000
00923	SODIUM TOTAL REC (MG/L)	1	17.000	--	--	--	--	--	--	--
00435	ACIDITY TOTAL (MG/L AS CACO3	931	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	65	310.000	95.000	187.954	266.900	223.500	186.000	154.000	105.500
00418	ALKALINITY,DIS,F (MG/L AS CACO3	2	307.000	296.000	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	25	306.000	114.000	203.080	304.500	225.000	207.000	175.500	119.400
00410	ANC, FET, FIELD (MG/L AS CACO3	456	394.000	92.000	200.491	273.000	221.000	199.000	176.000	132.550
95440	BICARBONATE MG/L AS CACO3	23	370.000	120.000	218.261	364.000	250.000	200.000	180.000	122.000
00453	BICARBONATE,DIS, (MG/L AS HCO3)	25	373.000	140.000	246.920	371.200	272.000	253.000	214.000	146.300
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	465	480.000	110.000	244.366	330.000	270.000	240.000	215.000	160.000
95445	CARBONATE MG/L AS CO3	23	24.000	0.000	2.826	22.400	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	25	8.000	0.000	0.400	6.200	0.000	0.000	0.000	0.000
00445	ANC CARB FET FIE (MG/L AS CO3)	463	11.000	0.000	0.073	0.000	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	248	34.000	0.100	9.981	19.000	12.000	9.050	6.900	3.945
00950	FLUORIDE DISSOLV (MG/L AS F)	248	0.700	0.100	0.222	0.400	0.300	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	237	35.000	1.800	11.835	19.000	14.000	12.000	8.450	4.200
00945	SULFATE DISSOLVE (MG/L AS SO4)	463	200.000	18.000	75.052	130.000	96.000	70.000	51.600	34.000
00608	NITROGEN AMMONIA (MG/L AS N)	34	0.380	0.020	0.104	0.335	0.116	0.060	0.040	0.027
00623	NITRO AMN & ORG (MG/L AS N)	32	1.500	0.600	0.890	1.370	0.900	0.800	0.712	0.652
00625	NITROGEN AMM+ORG (MG/L AS N)	31	1.700	0.700	1.114	1.700	1.400	1.000	0.900	0.700
71846	NITR. NH4 AS NH4 MG/L AS NH4	931	0.490	0.000	0.005	0.000	0.000	0.000	0.000	0.000
00610	NITROGEN AMMONIA (MG/L AS N)	4	0.160	0.050	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	931	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000
00602	NITROGEN DISSOLV (MG/L AS N)	931	5.900	0.000	0.057	0.000	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	931	8.400	0.000	0.159	0.996	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	931	19.200	0.000	0.227	1.008	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	931	0.000	--	--	--	--	--	--	--
71850	N, NITRATE TOTAL MG/L AS NO3	74	13.000	0.100	1.782	5.475	2.225	1.000	0.400	0.200
00631	NO2 + NO3 DISSOL (MG/L AS N)	49	4.600	0.030	0.691	3.700	0.605	0.380	0.220	0.100
00630	NO2 + NO3 TOTAL (MG/L AS N)	931	0.500	0.000	0.001	0.000	0.000	0.000	0.000	0.000
71856	NITR. NO2 AS NO2 MG/L AS NO2	931	0.887	0.000	0.005	0.000	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	47	0.270	--	*0.029	*0.186	*0.020	*0.010	*0.003	*0.001
00607	NITROGEN ORGANIC (MG/L AS N)	931	1.400	0.000	0.027	0.000	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	931	1.600	0.000	0.034	0.000	0.000	0.000	0.000	0.000
00600	NITROGEN TOTAL (MG/L AS N)	931	6.200	0.000	0.067	0.000	0.000	0.000	0.000	0.000

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

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		North Dakota data, June 1949 through July 2001—Continued								
71887	NITROGEN, TOTAL MG/L AS NO3	931	7.900	0.000	0.016	0.000	0.000	0.000	0.000	0.000
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	931	12.000	0.000	0.037	0.153	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	931	0.690	0.000	0.005	0.000	0.000	0.000	0.000	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	74	0.370	0.010	0.126	0.238	0.162	0.120	0.070	0.018
00672	PHOSPHORUS HYDRO (MG/L AS P)	931	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	931	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	931	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	931	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	34	0.330	0.030	0.128	0.270	0.194	0.100	0.068	0.034
70507	PHOS ORTHO TOT A MG/L AS P	2	0.199	0.139	--	--	--	--	--	--
00665	PHOSPHORUS TOTAL (MG/L AS P)	34	0.490	0.030	0.230	0.490	0.325	0.216	0.135	0.030
00603	NITROGEN TOTAL B (MG/KG AS N)	2	1.200	1.000	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	931	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	931	43.000	0.000	5.262	19.000	8.400	3.100	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	10	14.000	8.800	11.400	14.000	12.000	12.000	10.550	8.800
00689	CARBON ORGANIC P (MG/L AS C)	10	3.200	0.300	1.440	3.200	1.700	1.200	1.050	0.300
00690	CARBON INORG + O (MG/L AS C)	931	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	931	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	931	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	931	0.000	--	--	--	--	--	--	--
31625	COLIFORM FECAL 0 COLS./100 ML	7	160.000	--	*63.262	*160.000	*150.000	*34.000	*12.000	*3.832
31673	FECAL STREP,KF M COLS./100 ML	5	11000.000	1000.000	--	--	--	--	--	--
01106	ALUMINUM DISSOLV (UG/L AS AL)	15	213.000	--	*107.386	*213.000	*200.000	*100.000	*16.690	*1.000
01105	ALUMINUM TOTAL UG/L AS AL	7	200.000	100.000	171.429	200.000	200.000	200.000	100.000	100.000
01000	ARSENIC DISSOLVE (UG/L AS AS)	45	13.000	--	*3.379	*7.700	*4.000	*3.000	*2.000	*0.938
01005	BARIUM DISSOLVED (UG/L AS BA)	11	--	--	--	--	--	--	--	--
01010	BERYLLIUM DISSOL (UG/L AS BE)	8	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	204	760.000	--	*93.409	*175.000	*100.000	*80.000	*60.000	*29.339
01022	BORON TOTAL (UG/L AS B)	5	90.000	20.000	--	--	--	--	--	--
00999	BORON TOTAL REC. (UG/L)	1	0.000	--	--	--	--	--	--	--
01025	CADMIUM DISSOLVE (UG/L AS CD)	17	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	20	--	--	--	--	--	--	--	--
01032	CHROMIUM HEXAVAL (UG/L AS CR)	1	0.000	--	--	--	--	--	--	--
01034	CHROMIUM TOTAL (UG/L AS CR)	5	--	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	20	--	--	--	--	--	--	--	--

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, June 1949 through July 2001—Continued							
01040	COPPER DISSOLVED (UG/L AS CU)	21	20.000	--	*9.942	*20.000	*13.681	*8.929	*5.852	*3.733
00720	CYANIDE TOTAL (MG/L AS CN)	9	--	--	--	--	--	--	--	--
71885	IRON UG/L AS FE	84	360.000	0.000	78.452	190.000	107.500	60.000	40.000	10.000
01046	IRON DISSOLVED (UG/L AS FE)	116	1500.000	--	*73.212	*243.000	*70.000	*35.000	*20.000	*4.622
01045	IRON TOTAL (UG/L AS FE)	76	6300.000	--	*112.134	*130.000	*37.500	*20.000	*10.000	*2.669
01049	LEAD DISSOLVED (UG/L AS PB)	52	5.000	--	*0.657	*4.000	*0.731	*0.288	*0.118	*0.033
01130	LITHIUM DISSOLVE (UG/L AS LI)	52	40.000	10.000	23.173	40.000	30.000	20.000	20.000	10.000
01056	MANGANESE DISSOL (UG/L AS MN)	106	820.000	--	*32.207	*80.000	*30.000	*17.500	*7.750	*2.000
01055	MANGANESE TOTAL (UG/L AS MN)	30	240.000	--	*46.156	*240.000	*57.500	*15.000	*4.226	*0.766
71890	MERCURY DISSOLVE UG/L AS HG	39	1.400	--	*0.162	*0.600	*0.200	*0.100	*0.031	*0.009
71900	MERCURY, TOT.REC UG/L AS HG	1	--	--	--	--	--	--	--	--
01060	MOLYBDENUM DISSO (UG/L AS MO)	42	9.000	--	*1.832	*6.700	*2.000	*1.000	*1.000	*0.335
01065	NICKEL DISSOLVED (UG/L AS NI)	20	13.000	--	*7.468	*12.900	*10.000	*10.000	*4.014	*2.033
01145	SELENIUM DISSOLV (UG/L AS SE)	45	23.000	--	*2.067	*9.880	*1.500	*0.447	*0.120	*0.018
01075	SILVER DISSOLVED (UG/L AS AG)	10	5.000	--	*1.706	*5.000	*2.500	*1.038	*0.488	*0.317
01080	STRONTIUM DISSOL (UG/L AS SR)	52	480.000	100.000	240.308	420.000	277.500	220.000	200.000	113.000
01085	VANADIUM DISSOLV (UG/L AS V)	8	2.000	--	*1.187	*2.000	*1.341	*1.000	*1.000	*0.939
01090	ZINC DISSOLVED (UG/L AS ZN)	20	46.000	--	*16.776	*45.700	*20.000	*14.029	*10.000	*6.177
39742	2,4,5-T DISSOLVE UG/L	7	0.020	0.000	0.003	0.020	0.000	0.000	0.000	0.000
39743	2,4,5-T SUSPENDE UG/L	7	0.000	--	--	--	--	--	--	--
39740	2,4,5-T TOTAL(WA UG/L	9	--	--	--	--	--	--	--	--
39732	2,4-D DISSOLVED UG/L	7	0.070	0.000	0.017	0.070	0.030	0.000	0.000	0.000
39733	2,4-D SUSPENDED UG/L	7	0.000	--	--	--	--	--	--	--
39730	2,4-D TOTAL (WA UG/L	9	--	--	--	--	--	--	--	--
82660	26DIETHYLANILINE (UG/L)	4	--	--	--	--	--	--	--	--
77057	ACETATE, VINYL UG/L	4	--	--	--	--	--	--	--	--
49260	ACETOCHLOR FLTRD (UG/L)	4	--	--	--	--	--	--	--	--
79193	ACIFLUORFEN UNF (UG/L)	2	--	--	--	--	--	--	--	--
34210	ACROLEIN TOT. (UG/L)	4	--	--	--	--	--	--	--	--
77825	ALACHLOR, TOT RE UG/L	2	--	--	--	--	--	--	--	--
46342	ALACHLOR, DISS, UG/L	4	--	--	--	--	--	--	--	--
82587	ALDICARB SULFONE UG/L	2	--	--	--	--	--	--	--	--
82586	ALDICARB SULFOXI UG/L	2	--	--	--	--	--	--	--	--
82619	ALDICARB UG/L	2	--	--	--	--	--	--	--	--
39331	ALDRIN DISSOLVED UG/L	7	--	--	--	--	--	--	--	--

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, June 1949 through July 2001--Continued								
39332	ALDRIN SUSPENDED UG/L	7	0.000	--	--	--	--	--	--	--
39330	ALDRIN TOTAL (WA UG/L	9	--	--	--	--	--	--	--	--
34253	ALPHA BHC UG/L	4	--	--	--	--	--	--	--	--
39337	ALPHA BHC UG/L	2	--	--	--	--	--	--	--	--
39632	ATRAZINE, DISS, UG/L	4	0.052	0.022	--	--	--	--	--	--
39630	ATRAZINE UNF REC (UG/L)	2	--	--	--	--	--	--	--	--
82673	BENFLURALIN FIL (UG/L)	4	--	--	--	--	--	--	--	--
38710	BENTAZON UNF REC (UG/L)	2	--	--	--	--	--	--	--	--
30202	BROMOMETHANE UG/L	2	--	--	--	--	--	--	--	--
49311	BROMOXYNIL FLTRD (UG/L)	2	--	--	--	--	--	--	--	--
04028	BUTYLATE DISS RE (UG/L)	4	--	--	--	--	--	--	--	--
82680	CARBARYL FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
82618	CARBARYL UG/L	2	--	--	--	--	--	--	--	--
82674	CARBOFURAN FIL . (UG/L)	4	--	--	--	--	--	--	--	--
82615	CARBOFURAN UG/L	2	--	--	--	--	--	--	--	--
39348	CHLORDANE,ALPHA (UG/L)	2	--	--	--	--	--	--	--	--
39810	GAMMA CHLORDANE (UG/L)	2	--	--	--	--	--	--	--	--
39353	CHLORDANE SUSPEN UG/L	7	0.000	--	--	--	--	--	--	--
39352	CHLORDANE DISSOL UG/L	7	--	--	--	--	--	--	--	--
39350	CHLORDANE TOT(WA UG/L	7	--	--	--	--	--	--	--	--
30201	CHLOROMETHANE UG/L	2	--	--	--	--	--	--	--	--
38933	CHLORPYRIFOS, DI UG/L	4	--	--	--	--	--	--	--	--
81403	CHLOROPYRIFOS TO UG/L	2	--	--	--	--	--	--	--	--
81757	CYANAZINE UG/L	2	--	--	--	--	--	--	--	--
04041	CYANAZINE DISS R (UG/L)	4	--	--	--	--	--	--	--	--
82682	DCPA FIL 0.7 REC (UG/L)	4	--	--	--	--	--	--	--	--
39362	DDD SUSPENDED UG/L	7	0.000	--	--	--	--	--	--	--
39367	DDE SUSPENDED UG/L	7	0.010	0.000	0.001	0.010	0.000	0.000	0.000	0.000
39372	DDT SUSPENDED UG/L	7	--	--	--	--	--	--	--	--
04040	DEETHYL ATRAZINE (UG/L)	4	0.016	0.007	--	--	--	--	--	--
39572	DIAZINON DISSOLV UG/L	11	--	--	--	--	--	--	--	--
39573	DIAZINON SUSPEND UG/L	5	0.000	--	--	--	--	--	--	--
39570	DIAZINON TOT (WA UG/L	7	--	--	--	--	--	--	--	--
82052	DICAMBA,TOTAL UG/L	2	--	--	--	--	--	--	--	--
49302	DICHLORPRO FLTRD (UG/L)	2	--	--	--	--	--	--	--	--

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, June 1949 through July 2001--Continued								
39381	DIELDRIN DISSOLV UG/L	11	--	--	--	--	--	--	--	--
39382	DIELDRIN SUSPEND UG/L	7	0.000	--	--	--	--	--	--	--
39380	DIELDRIN TOT (WA UG/L	9	--	--	--	--	--	--	--	--
82226	DINOSEB UNFLTRD (UG/L)	2	--	--	--	--	--	--	--	--
82677	DISULFOTON FIL . (UG/L)	4	--	--	--	--	--	--	--	--
34361	ENDOSULFAN I WH (UG/L)	2	--	--	--	--	--	--	--	--
34356	ENDOSULFAN II UN (UG/L)	2	--	--	--	--	--	--	--	--
34351	ENDOSULFAN SULFA (UG/L)	2	--	--	--	--	--	--	--	--
34366	ENDRIN ALDEHYDE (UG/L)	2	--	--	--	--	--	--	--	--
39391	ENDRIN DISSOLVED UG/L	7	--	--	--	--	--	--	--	--
39392	ENDRIN SUSPENDED UG/L	7	0.000	--	--	--	--	--	--	--
39390	ENDRIN UNF REC (UG/L)	9	--	--	--	--	--	--	--	--
82668	EPTC FIL 0.7 REC (UG/L)	4	0.052	0.019	--	--	--	--	--	--
82663	ETHALFLURALIN FI (UG/L)	4	--	--	--	--	--	--	--	--
38787	ETHALFLURALIN WH (UG/L)	2	--	--	--	--	--	--	--	--
82672	ETHOPROP FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
04095	FONOFOX DISS REC (UG/L)	4	--	--	--	--	--	--	--	--
39421	HEPT.EPOX. DISSO UG/L	7	--	--	--	--	--	--	--	--
39422	HEPT EPOX SUSPEN UG/L	7	0.000	--	--	--	--	--	--	--
39420	HEPT EPOX TOT(WA UG/L	9	--	--	--	--	--	--	--	--
39411	HEPTACHLOR DISSO UG/L	7	--	--	--	--	--	--	--	--
39412	HEPTACHLOR SUSPE UG/L	7	0.000	--	--	--	--	--	--	--
39410	HEPTACHLOR T.(WA UG/L	9	--	--	--	--	--	--	--	--
39782	LINDANE TOTAL (UG/L)	2	--	--	--	--	--	--	--	--
39341	LINDANE DISSOLVE UG/L	11	--	--	--	--	--	--	--	--
39342	LINDANE SUSPENDE UG/L	6	0.000	--	--	--	--	--	--	--
39340	LINDANE TOTAL(WA UG/L	6	--	--	--	--	--	--	--	--
82666	LINURON FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
39532	MALATHION DISSOL UG/L	11	--	--	--	--	--	--	--	--
39533	MALATHION SUSPEN UG/L	5	0.000	--	--	--	--	--	--	--
39530	MALATHION TOT(WA UG/L	7	--	--	--	--	--	--	--	--
30192	MCPA UNF REC (UG/L)	2	--	--	--	--	--	--	--	--
39051	METHOMYL TOTAL UG/L	2	--	--	--	--	--	--	--	--
39480	METHOXYCHLOR T.(UG/L	2	--	--	--	--	--	--	--	--
82686	METHYL AZINPHOS (UG/L)	4	--	--	--	--	--	--	--	--

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39602	METH. PARA. DISS UG/L	7	--	--	--	--	--	--	--	--
39603	METHYL PAR SUSPE UG/L	5	0.000	--	--	--	--	--	--	--
39600	MET PARTH TOT(WA UG/L	7	--	--	--	--	--	--	--	--
82667	METHYL PARATHION (UG/L)	4	--	--	--	--	--	--	--	--
39415	METOLACHLOR,WAT. UG/L	4	0.049	0.011	--	--	--	--	--	--
82612	METOLACHLOR UG/L	2	--	--	--	--	--	--	--	--
81408	METRIBUZIN (SENC UG/L	2	--	--	--	--	--	--	--	--
82630	METRIBUZIN,WAT.D UG/L	4	--	--	--	--	--	--	--	--
82671	MOLINATE FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
82684	NAPROPAMIDE FIL (UG/L)	4	--	--	--	--	--	--	--	--
82613	OXYAMYL UG/L	2	--	--	--	--	--	--	--	--
34653	P,P' DDE DISSOLV (UG/L)	4	--	--	--	--	--	--	--	--
39361	P,P'-DDD FILT RE UG/L	7	--	--	--	--	--	--	--	--
39360	P,P'-DDD UNFLT R UG/L	9	--	--	--	--	--	--	--	--
39366	P,P'-DDE FILT UG/L	7	--	--	--	--	--	--	--	--
39365	P,P'-DDE, TOTAL UG/L	9	--	--	--	--	--	--	--	--
39371	P,P'-DDT FILT RE UG/L	7	--	--	--	--	--	--	--	--
39370	P,P'-DDT UNFILT UG/L	9	--	--	--	--	--	--	--	--
39542	PARATHION DISSOL UG/L	11	--	--	--	--	--	--	--	--
39543	PARATHION SUSPEN UG/L	5	0.000	--	--	--	--	--	--	--
39540	PARATHION TOT(WA UG/L	5	--	--	--	--	--	--	--	--
39517	PCB DISSOLVED UG/L	7	--	--	--	--	--	--	--	--
39518	PCB SUSPENDED UG/L	7	0.000	--	--	--	--	--	--	--
39516	PCB TOTAL(WA UG/L	7	--	--	--	--	--	--	--	--
82669	PEBULATE FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
79190	PENDIMETHALIN T UG/L	2	--	--	--	--	--	--	--	--
82683	PENDIMETHALIN F. (UG/L)	4	--	--	--	--	--	--	--	--
39032	PETACHLOROPHENOL (UG/L)	2	--	--	--	--	--	--	--	--
82687	PERMETHRIN FIL . (UG/L)	4	--	--	--	--	--	--	--	--
82664	PHORATE FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
39720	PICLORAM, TOTAL UG/L	2	--	--	--	--	--	--	--	--
04037	PROMETON DISS RE (UG/L)	4	--	--	--	--	--	--	--	--
82676	PRONAMIDE FIL .7 (UG/L)	4	--	--	--	--	--	--	--	--
04024	PROPACHLOR DISS (UG/L)	4	--	--	--	--	--	--	--	--
82679	PROPANIL FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--

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82685	PROPARGITE FIL (UG/L)	4	--	--	--	--	--	--	--	--
39762	SILVEX DISSOLVED UG/L	7	0.000	--	--	--	--	--	--	--
39763	SILVEX SUSPENDED UG/L	7	0.000	--	--	--	--	--	--	--
39760	SILVEX TOTAL (WA UG/L	9	--	--	--	--	--	--	--	--
39055	SIMAZINE TOTAL U UG/L	2	--	--	--	--	--	--	--	--
04035	SIMAZINE DISS RE (UG/L)	4	--	--	--	--	--	--	--	--
82670	TEBUTHIURON FIL (UG/L)	4	--	--	--	--	--	--	--	--
82665	TERBACIL FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
82675	TERBUFOS FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
82681	THIOBENCARB FIL (UG/L)	4	--	--	--	--	--	--	--	--
39400	TOXAPHENE TOT(WA UG/L	2	--	--	--	--	--	--	--	--
82678	TRIALLATE FIL .7 (UG/L)	4	0.078	0.038	--	--	--	--	--	--
39030	TRIFLURALIN,TOT UG/L	2	--	--	--	--	--	--	--	--
82661	TRIFLURALIN FIL (UG/L)	4	0.022	0.010	--	--	--	--	--	--
81551	XYLENE UNF REC (UG/L)	2	--	--	--	--	--	--	--	--
34506	111TRICHLOROETHA (UG/L)	4	--	--	--	--	--	--	--	--
34511	112TRICHLOROETHA (UG/L)	6	--	--	--	--	--	--	--	--
34496	DICHLOROETHANE 1 (UG/L)	6	--	--	--	--	--	--	--	--
34501	DICHLOROETHYLENE (UG/L)	6	--	--	--	--	--	--	--	--
77168	1,1-DICHLOROPROP UG/L	6	--	--	--	--	--	--	--	--
77443	123TRICHLPROPANE UG/L	6	--	--	--	--	--	--	--	--
77651	1,2DIBROMOETHANE UG/L	4	--	--	--	--	--	--	--	--
32103	1,2-DICHLOROETHA UG/L	6	--	--	--	--	--	--	--	--
34541	DICHLOROPROPANE (UG/L)	6	--	--	--	--	--	--	--	--
34546	TRANSDICH.ETHENE (UG/L)	4	--	--	--	--	--	--	--	--
77170	2,2-DICHLOROPROP UG/L	5	--	--	--	--	--	--	--	--
73547	2-BUTENE T-1,4-D (UG/L)	4	--	--	--	--	--	--	--	--
77103	2-HEXANONE,TOTAL UG/L	6	--	--	--	--	--	--	--	--
81552	ACETONE,TOTAL UG/L	6	--	--	--	--	--	--	--	--
34215	ACRYLONITRILE TO (UG/L)	4	--	--	--	--	--	--	--	--
77613	1,2,3-TRICHLORO (UG/L)	6	--	--	--	--	--	--	--	--
77221	BENZENE 123TRIME (UG/L)	3	--	--	--	--	--	--	--	--
34551	124TRICHLOROBENZ (UG/L)	6	--	--	--	--	--	--	--	--
77222	124-TRIMETHYLBEN (UG/L)	4	0.230	0.010	--	--	--	--	--	--
77226	135-TRIMETHYL BE (UG/L)	6	--	--	--	--	--	--	--	--

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, Juue 1949 through July 2001--Continued								
34566	13DICHLORO-BENZE (UG/L)	4	--	--	--	--	--	--	--	--
34571	14DICHLORO-BENZE (UG/L)	4	--	--	--	--	--	--	--	--
77223	ISOPROPYL-BENZEN (UG/L)	6	--	--	--	--	--	--	--	--
77342	N-BUTYL-BENZENE (UG/L)	5	--	--	--	--	--	--	--	--
77224	N-PROPYL-BENZENE (UG/L)	6	--	--	--	--	--	--	--	--
34536	O-DICHLORO-BENZE (UG/L)	6	--	--	--	--	--	--	--	--
77350	SEC-BUTYL-BENZEN (UG/L)	6	--	--	--	--	--	--	--	--
77353	TERT-BUTYL-BENZE (UG/L)	6	--	--	--	--	--	--	--	--
34030	BENZENE, TOTAL UG/L	6	--	--	--	--	--	--	--	--
81555	BROMOBENZENE WAT UG/L	4	--	--	--	--	--	--	--	--
50002	BROMOETHENE (UG/L)	4	--	--	--	--	--	--	--	--
32104	BROMOFORM TOTAL UG/L	6	--	--	--	--	--	--	--	--
77041	CARBON DISULFIDE UG/L	4	--	--	--	--	--	--	--	--
32102	CARBON TETRACHLO UG/L	4	--	--	--	--	--	--	--	--
34301	CHLOROBENZENE (UG/L)	6	--	--	--	--	--	--	--	--
32105	CHLORODIBROMOMET UG/L	6	--	--	--	--	--	--	--	--
34311	CHLOROETHANE UG/L	6	--	--	--	--	--	--	--	--
32106	CHLOROFORM TOTAL UG/L	6	--	--	--	--	--	--	--	--
77093	CIS1,2DICHL.ETHE UG/L	4	--	--	--	--	--	--	--	--
34704	CIS1,3-DICHL.PRO UG/L	6	--	--	--	--	--	--	--	--
82625	DIBROMOCHLOROPRO UG/L	4	--	--	--	--	--	--	--	--
30217	DIBROMOMETHANE,W UG/L	6	--	--	--	--	--	--	--	--
32101	BROMODICHLOROMET UG/L	4	--	--	--	--	--	--	--	--
34668	DICHL.DIFL.METHA (UG/L)	4	--	--	--	--	--	--	--	--
81577	DIISOPROPYLETHER UG/L	4	--	--	--	--	--	--	--	--
77562	1112TETRACHLORO- (UG/L)	4	--	--	--	--	--	--	--	--
34516	1122TETRACHLORO (UG/L)	4	--	--	--	--	--	--	--	--
34396	ETHANE, HEXACHLO (UG/L)	4	--	--	--	--	--	--	--	--
81576	ETHER, ETHYL, UN (UG/L)	4	--	--	--	--	--	--	--	--
50004	T-BUTYL ETHYL ET (UG/L)	4	--	--	--	--	--	--	--	--
50005	T-PENTYL METHYLE (UG/L)	4	--	--	--	--	--	--	--	--
34371	ETHYLBENZENE TOT (UG/L)	6	--	--	--	--	--	--	--	--
77652	FREON 113 UNF RE (UG/L)	4	--	--	--	--	--	--	--	--
81607	FURAN, TETRAHYDR (UG/L)	4	--	--	--	--	--	--	--	--
39702	HEXACHLOROBUTADI UG/L	6	--	--	--	--	--	--	--	--

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, June 1949 through July 2001--Continued							
50000	ISODURENE (UG/L)	3	--	--	--	--	--	--	--	--
73570	METHACRYLATE, ET (UG/L)	4	--	--	--	--	--	--	--	--
81597	METHACRYLATE, ME (UG/L)	4	--	--	--	--	--	--	--	--
81593	METHACRYLONITRIL (UG/L)	4	--	--	--	--	--	--	--	--
77297	METHANE BROMOCHL (UG/L)	4	--	--	--	--	--	--	--	--
49991	METHYL ACRYLATE (UG/L)	4	--	--	--	--	--	--	--	--
77424	METHYL IODIDE (UG/L)	4	--	--	--	--	--	--	--	--
78032	MTBE (UG/L)	4	--	--	--	--	--	--	--	--
34413	METHYLBROMIDE TO (UG/L)	4	--	--	--	--	--	--	--	--
34418	METHYLCHLORIDE,T (UG/L)	3	--	--	--	--	--	--	--	--
34423	METHYLENE CHLORI (UG/L)	3	--	--	--	--	--	--	--	--
81595	METH.ETHYL KETON UG/L	4	--	--	--	--	--	--	--	--
78133	METH.ISOBU.KETON UG/L	4	--	--	--	--	--	--	--	--
85795	M/P XYLENE UNFLT (UG/L)	4	0.420	0.030	--	--	--	--	--	--
34696	NAPHTHALENE TOTA (UG/L)	4	--	--	--	--	--	--	--	--
77275	O-CHLOROTOLUENE UG/L	6	--	--	--	--	--	--	--	--
77135	TOT. O-XYLENE (U (UG/L)	4	0.100	0.010	--	--	--	--	--	--
77356	P-ISOPROPYLTOLUE (UG/L)	6	--	--	--	--	--	--	--	--
49999	1234TETRAMETHYL (UG/L)	4	--	--	--	--	--	--	--	--
77173	1,3DICHLPROPANE UG/L	4	--	--	--	--	--	--	--	--
78109	PROPENE, 3-CHLOR (UG/L)	4	--	--	--	--	--	--	--	--
77128	STYRENE, TOTAL UG/L	6	--	--	--	--	--	--	--	--
34475	TETRACHLOROETHYL (UG/L)	5	--	--	--	--	--	--	--	--
77220	TOLUENE, O-ETHYL (UG/L)	4	--	--	--	--	--	--	--	--
77277	P-CHLORO-TOLUENE (UG/L)	4	--	--	--	--	--	--	--	--
34010	TOLUENE, TOTAL UG/L	6	--	--	--	--	--	--	--	--
34699	TR1,3-DICHL.PROP UG/L	6	--	--	--	--	--	--	--	--
39180	TRICHLOROETHYLEN UG/L	5	--	--	--	--	--	--	--	--
34488	TRICH.FLUOR.METH (UG/L)	4	--	--	--	--	--	--	--	--
39175	VINYL CHLORIDE T UG/L	4	--	--	--	--	--	--	--	--
39333	ALDRIN BTM U UG/KG	2	0.000	--	--	--	--	--	--	--
39351	CHLORDANE BTM U UG/KG	2	0.000	--	--	--	--	--	--	--
39383	DIELDRIN BTM UG/KG	2	0.000	--	--	--	--	--	--	--
39393	ENDRIN BTM UG/KG	2	0.000	--	--	--	--	--	--	--
39423	HEPT EPOX BTM U UG/KG	2	0.000	--	--	--	--	--	--	--

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, June 1949 through July 2001--Coutinued							
39413	HEPTACHLOR BTM U UG/KG	2	0.000	--	--	--	--	--	--	--
39343	LINDANE BTM U UG/KG	2	0.000	--	--	--	--	--	--	--
39363	P,P'-DDD BEDMAT UG/KG	2	0.000	--	--	--	--	--	--	--
39368	P,P'-DDE BED MAT UG/KG	2	0.000	--	--	--	--	--	--	--
39373	P,P'-DDT BTM UG/KG	2	0.000	--	--	--	--	--	--	--
39519	PCB BTM UG/KG	2	0.000	--	--	--	--	--	--	--
82082	HYDROGEN 2 / 1 R RATIO PER MIL	1	-70.500	--	--	--	--	--	--	--
07060	IRON 59 DISSOLVE (PCI/L)	2	1.000	1.000	--	--	--	--	--	--
82085	OXYGEN 18 / 16 R RATIO PER MIL	1	-8.750	--	--	--	--	--	--	--
07000	TRITIUM TOTAL (PCI/L)	1	59.000	--	--	--	--	--	--	--
75985	TRITIUM PREC EST PCI/L	1	6.400	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	20	100.000	95.000	99.100	100.000	100.000	99.000	99.000	95.150
80156	SUS-SED DISCH + T/DAY	931	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	20	253.000	6.000	115.350	252.400	176.000	111.000	39.750	6.050
80155	DISCHARGE,SUSP.S T/DAY	931	17100.000	0.000	78.090	0.000	0.000	0.000	0.000	0.000
			Minnesota data, September 1992 through April 1997							
00065	GAGE HEIGHT (FEET)	1	45.560	--	--	--	--	--	--	--
00060	DISCHARGE CFS	5	20500.000	1750.000	--	--	--	--	--	--
00061	DISCHARGE, INST. CFS	20	26300.000	1050.000	10341.500	26275.000	21750.000	5920.000	3385.000	1072.500
70303	RESIDUE DIS TON/ T/AC-FT	29	0.800	0.200	0.517	0.750	0.600	0.500	0.400	0.250
70302	DISSOLVED SOLIDS TONS/DAY	23	23400.000	944.000	9299.739	23240.000	16500.000	6340.000	3100.000	1061.200
70300	RESIDUE DIS 180C MG/L	29	570.000	166.000	378.448	560.000	439.000	379.000	292.000	191.000
70301	DISSOLVED SOLIDS MG/L	29	516.000	155.000	348.483	505.000	411.000	342.000	273.500	178.000
00025	AIR PRESSURE (MM OF HG)	28	750.000	732.000	741.429	750.000	743.000	742.000	739.250	732.450
00300	OXYGEN DISSOLVED (MG/L)	29	14.500	3.900	9.421	13.750	11.050	9.800	7.600	4.550
00301	OXYGEN DIS. PERC % OF SATURATIO	27	105.000	45.000	83.204	104.200	94.300	82.700	74.100	51.360
00400	PH, WH, FIELD (STANDARD UNIT	29	8.400	7.200	7.921	8.400	8.150	7.800	7.700	7.350
00403	PH, WH, LABORATO (STANDARD UNIT	29	8.200	7.200	7.779	8.150	8.000	7.800	7.600	7.250
90095	SPECIFIC CONDUCT MICROSIEMENS/C	29	817.000	274.000	581.034	811.500	673.000	610.000	454.500	304.500
00095	SPECIFIC CONDUCT US/CM @ 25C	28	828.000	254.000	576.571	815.400	664.750	618.000	455.500	280.550
00020	AIR TEMPERATURE DEGREES C	27	24.500	-22.000	9.167	23.100	18.000	10.000	3.500	-15.400

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

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			Minnesota data, September 1992 through April 1997--Continued							
00010	WATER TEMPERATUR (DEGREES C)	29	23.500	0.000	10.217	22.500	19.000	10.000	0.750	0.250
00904	HARDNESS NC. DIS (MG/L AS CACO3	22	145.000	29.000	84.000	144.700	114.000	78.000	52.000	30.200
00900	HARDNESS TOTAL (MG/L AS CAO3)	29	365.000	119.000	254.862	358.000	294.500	261.000	196.000	125.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	29	77.000	29.800	57.369	77.000	66.000	60.000	48.500	30.600
00925	MAGNESIUM DISSOL (MG/L AS MG)	29	42.000	10.700	27.103	41.500	32.500	28.000	19.500	11.700
00935	POTASSIUM DISSOL (MG/L AS K)	29	12.000	4.600	7.270	10.950	8.500	7.200	5.750	4.635
00931	SODIUM ADSORPTIO (RATIO)	29	0.961	0.131	0.520	0.887	0.632	0.543	0.373	0.141
00930	SODIUM DISSOLVED (MG/L AS NA)	29	40.000	3.800	19.586	37.500	24.500	20.000	12.000	4.250
00932	SODIUM, PERCENT PERCENT	29	20.500	3.930	13.333	19.000	14.950	13.800	11.600	5.050
90410	ANC, TIT. 4.5, L MG/L AS CACO3	28	269.000	103.000	191.536	265.850	232.750	199.500	141.000	103.450
39086	ALKALINITY,DIS,I (MG/L AS CACO3	23	257.000	114.000	194.348	256.800	217.000	205.000	174.000	117.600
00453	BICARBONATE,DIS, (MG/L AS HCO3)	23	314.000	140.000	236.217	313.600	264.000	247.000	212.000	144.200
00452	CARBONATE,DIS,IT (MG/L AS CO3)	23	8.000	0.000	0.435	6.800	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	29	18.000	2.700	11.738	18.000	14.500	12.000	10.500	3.500
00950	FLUORIDE DISSOLV (MG/L AS F)	29	0.300	0.100	0.186	0.300	0.200	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	29	21.000	4.600	14.576	20.500	17.500	15.000	12.350	6.400
00945	SULFATE DISSOLVE (MG/L AS SO4)	29	200.000	28.000	97.176	190.000	140.000	83.000	55.000	36.000
00608	NITROGEN AMMONIA (MG/L AS N)	29	0.380	0.020	0.103	0.350	0.120	0.060	0.040	0.025
00623	NITRO AMN & ORG (MG/L AS N)	29	1.500	0.600	0.880	1.400	0.900	0.800	0.700	0.640
00625	NITROGEN AMM+ORG (MG/L AS N)	29	1.700	0.700	1.094	1.700	1.300	1.000	0.900	0.700
71846	NITR. NH4 AS NH4 MG/L AS NH4	29	0.489	0.026	0.133	0.451	0.155	0.077	0.052	0.032
00602	NITROGEN DISSOLV (MG/L AS N)	29	5.900	0.870	1.755	5.500	1.640	1.200	1.090	0.900
00618	NITROGEN NITRATE (MG/L AS N)	22	4.330	0.150	1.020	4.222	1.021	0.415	0.317	0.155
71851	NITR. NO3 AS NO3 MG/L AS NO3	22	19.200	0.664	4.514	18.720	4.517	1.835	1.405	0.684
00631	NO2 + NO3 DISSOL (MG/L AS N)	29	4.600	0.130	0.876	4.200	0.675	0.390	0.235	0.150
71856	NITR. NO2 AS NO2 MG/L AS NO2	22	0.887	0.033	0.184	0.848	0.190	0.066	0.033	0.033
00613	NITROGEN,NITRITE MG/L AS N	29	0.270	--	*0.043	*0.230	*0.032	*0.020	*0.007	*0.001
00607	NITROGEN ORGANIC (MG/L AS N)	29	1.420	0.570	0.776	1.225	0.860	0.770	0.641	0.570
00605	NITROGEN ORGANIC (MG/L AS N)	29	1.550	0.590	0.989	1.490	1.175	0.950	0.760	0.630
00600	NITROGEN TOTAL (MG/L AS N)	29	6.200	0.930	1.968	5.750	1.775	1.470	1.145	0.950
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	29	1.010	0.092	0.403	0.888	0.617	0.307	0.199	0.108
00666	PHOSPHORUS DISS. (MG/L AS P)	29	0.370	0.030	0.142	0.320	0.220	0.120	0.075	0.030
00671	PHOSPHORUS ORTHO (MG/L AS P)	29	0.330	0.030	0.131	0.290	0.201	0.100	0.065	0.035
00665	PHOSPHORUS TOTAL (MG/L AS P)	29	0.490	0.030	0.230	0.490	0.336	0.200	0.130	0.045
00405	CARBON DIOXIDE D (MG/L AS CO2)	28	12.200	1.500	5.061	11.975	5.575	3.850	2.725	1.590

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			Minnesota data, September 1992 through April 1997--Continued							
00681	CARBON ORGANIC D (MG/L AS C)	9	14.000	9.200	11.689	14.000	12.000	12.000	11.000	9.200
00689	CARBON ORGANIC P (MG/L AS C)	9	3.200	0.900	1.567	3.200	2.000	1.200	1.150	0.900
00680	CARBON ORGANIC T (MG/L AS C)	1	19.000	--	--	--	--	--	--	--
31625	COLIFORM FECAL 0 COLS./100 ML	4	150.000	12.000	--	--	--	--	--	--
31673	FECAL STREP,KF M COLS./100 ML	4	11000.000	3400.000	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	29	150.000	0.000	27.345	115.000	30.000	20.000	0.000	0.000
01056	MANGANESE DISSOL (UG/L AS MN)	29	130.000	2.000	19.193	97.000	21.500	11.000	3.500	2.000
49295	1-NAPHTHOL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39742	2,4,5-T DISSOLVE UG/L	1	--	--	--	--	--	--	--	--
39732	2,4-D DISSOLVED UG/L	1	0.110	--	--	--	--	--	--	--
38746	2,4-DB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82660	26DIETHYLANILINE (UG/L)	5	--	--	--	--	--	--	--	--
49308	3HYDRXYCARBOFURA (UG/L)	1	--	--	--	--	--	--	--	--
77057	ACETATE, VINYL UG/L	4	--	--	--	--	--	--	--	--
49260	ACETOCHLOR FLTRD (UG/L)	5	--	--	--	--	--	--	--	--
49315	ACIFLUORFEN FLTR (UG/L)	1	--	--	--	--	--	--	--	--
34210	ACROLEIN TOT. (UG/L)	4	--	--	--	--	--	--	--	--
46342	ALACHLOR, DISS, UG/L	5	--	--	--	--	--	--	--	--
49313	ALDICARB SULFONE (UG/L)	1	--	--	--	--	--	--	--	--
49314	ALDICARB SULFOXI (UG/L)	1	--	--	--	--	--	--	--	--
49312	ALDICARB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
34253	ALPHA BHC UG/L	5	--	--	--	--	--	--	--	--
39632	ATRAZINE, DISS, UG/L	5	0.052	0.022	--	--	--	--	--	--
82673	BENFLURALIN FIL (UG/L)	5	--	--	--	--	--	--	--	--
38711	BENTAZON, FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04029	BROMACIL DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
49311	BROMOXYNIL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04028	BUTYLATE DISS RE (UG/L)	5	--	--	--	--	--	--	--	--
49310	CARBARYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82680	CARBARYL FIL 0.7 (UG/L)	5	--	--	--	--	--	--	--	--
49309	CARBOFURAN FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82674	CARBOFURAN FIL. (UG/L)	5	--	--	--	--	--	--	--	--
61188	CHLORAMBEN, METH (UG/L)	1	--	--	--	--	--	--	--	--
49306	CHLOROTHALONIL F (UG/L)	1	--	--	--	--	--	--	--	--
38933	CHLORPYRIFOS, DI UG/L	5	--	--	--	--	--	--	--	--

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, September 1992 through April 1997--Continued							
49305	CLOPYRALID FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04041	CYANAZINE DISS R (UG/L)	5	--	--	--	--	--	--	--	--
49304	DACTHAL MONO-ACI (UG/L)	1	--	--	--	--	--	--	--	--
82682	DCPA FIL 0.7 REC (UG/L)	5	--	--	--	--	--	--	--	--
04040	DEETHYL ATRAZINE (UG/L)	5	0.016	0.007	--	--	--	--	--	--
39572	DIAZINON DISSOLV UG/L	5	--	--	--	--	--	--	--	--
38442	DICAMBA FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49303	DICHLOBENIL FLTR (UG/L)	1	--	--	--	--	--	--	--	--
49302	DICHLORPRO FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39381	DIELDRIN DISSOLV UG/L	5	--	--	--	--	--	--	--	--
49301	DINOSEB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82677	DISULFOTON FIL. (UG/L)	5	--	--	--	--	--	--	--	--
49300	DIURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49299	DNOC FLTD (UG/L)	1	--	--	--	--	--	--	--	--
82668	EPTC FIL 0.7 REC (UG/L)	5	--	--	--	--	--	--	--	--
49298	ESFENVALERATE FL (UG/L)	1	--	--	--	--	--	--	--	--
82663	ETHALFLURALIN FI (UG/L)	5	--	--	--	--	--	--	--	--
82672	ETHOPROP FIL 0.7 (UG/L)	5	--	--	--	--	--	--	--	--
49297	FENURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38811	FLUOMETURON FLT (UG/L)	1	--	--	--	--	--	--	--	--
04095	FONOFOX DISS REC (UG/L)	5	--	--	--	--	--	--	--	--
39341	LINDANE DISSOLVE UG/L	5	--	--	--	--	--	--	--	--
38478	LINURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82666	LINURON FIL 0.7 (UG/L)	5	--	--	--	--	--	--	--	--
39532	MALATHION DISSOL UG/L	5	--	--	--	--	--	--	--	--
38482	MCPA FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38487	MCPB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38501	METHIOCARB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49296	METHOMYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82686	METHYL AZINPHOS (UG/L)	5	--	--	--	--	--	--	--	--
82667	METHYL PARATHION (UG/L)	5	--	--	--	--	--	--	--	--
39415	METOLACHLOR,WAT. UG/L	5	0.049	0.009	--	--	--	--	--	--
82630	METRIBUZIN,WAT.D UG/L	5	--	--	--	--	--	--	--	--
82671	MOLINATE FIL 0.7 (UG/L)	5	--	--	--	--	--	--	--	--
82684	NAPROPAMIDE FIL (UG/L)	5	--	--	--	--	--	--	--	--

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		Minnesota data, September 1992 through April 1997--Continued								
49294	NEBURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49293	NORFLURAZON FLTR (UG/L)	1	--	--	--	--	--	--	--	--
49292	ORYZALIN FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38866	OXAMYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
34653	P,P' DDE DISSOLV (UG/L)	5	--	--	--	--	--	--	--	--
39542	PARATHION DISSOL UG/L	5	--	--	--	--	--	--	--	--
82669	PEBULATE FIL 0.7 (UG/L)	5	--	--	--	--	--	--	--	--
82683	PENDIMETHALIN F. (UG/L)	5	--	--	--	--	--	--	--	--
82687	PERMETHRIN FIL. (UG/L)	5	--	--	--	--	--	--	--	--
82664	PHORATE FIL 0.7 (UG/L)	5	--	--	--	--	--	--	--	--
49291	PICLORAM FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04037	PROMETON DISS RE (UG/L)	5	--	--	--	--	--	--	--	--
82676	PRONAMIDE FIL .7 (UG/L)	5	--	--	--	--	--	--	--	--
04024	PROPACHLOR DISS (UG/L)	5	--	--	--	--	--	--	--	--
82679	PROPANIL FIL 0.7 (UG/L)	5	--	--	--	--	--	--	--	--
82685	PROPARGITE FIL. (UG/L)	5	--	--	--	--	--	--	--	--
49236	PROPHAM FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38538	PROPOXUR FLTR (UG/L)	1	--	--	--	--	--	--	--	--
39762	SILVEX DISSOLVED UG/L	1	--	--	--	--	--	--	--	--
04035	SIMAZINE DISS RE (UG/L)	5	--	--	--	--	--	--	--	--
82670	TEBUTHIURON FIL (UG/L)	5	--	--	--	--	--	--	--	--
82665	TERBACIL FIL 0.7 (UG/L)	5	--	--	--	--	--	--	--	--
82675	TERBUFOS FIL 0.7 (UG/L)	5	--	--	--	--	--	--	--	--
82681	THIOBENCARB FIL (UG/L)	5	--	--	--	--	--	--	--	--
82678	TRIALLATE FIL .7 (UG/L)	5	--	--	--	--	--	--	--	--
49235	TRICLOPYR FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82661	TRIFLURALIN FIL (UG/L)	5	--	--	--	--	--	--	--	--
34506	111TRICHLOROETHA (UG/L)	4	--	--	--	--	--	--	--	--
34511	112TRICHLOROETHA (UG/L)	4	--	--	--	--	--	--	--	--
34496	DICHLOROETHANE 1 (UG/L)	4	--	--	--	--	--	--	--	--
34501	DICHLOROETHYLENE (UG/L)	4	--	--	--	--	--	--	--	--
77168	1,1-DICHLOROPROP UG/L	4	--	--	--	--	--	--	--	--
77443	123TRICHLPROPANE UG/L	4	--	--	--	--	--	--	--	--
77651	1,2DIBROMOETHANE UG/L	4	--	--	--	--	--	--	--	--
32103	1,2-DICHLOROETHA UG/L	4	--	--	--	--	--	--	--	--

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Semple size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		Minnesota data, September 1992 through April 1997--Continued								
34541	DICHLOROPROPANE (UG/L)	4	--	--	--	--	--	--	--	--
34546	TRANSDICH.ETHENE (UG/L)	4	--	--	--	--	--	--	--	--
77170	2,2-DICHLOROPROP UG/L	4	--	--	--	--	--	--	--	--
73547	2-BUTENE T-1,4-D (UG/L)	4	--	--	--	--	--	--	--	--
77103	2-HEXANONE,TOTAL UG/L	4	--	--	--	--	--	--	--	--
81552	ACETONE,TOTAL UG/L	4	--	--	--	--	--	--	--	--
34215	ACRYLONITRILE TO (UG/L)	4	--	--	--	--	--	--	--	--
77613	1,2,3-TRICHLORO (UG/L)	4	--	--	--	--	--	--	--	--
77221	BENZENE 123TRIME (UG/L)	4	--	--	--	--	--	--	--	--
34551	124TRICHLOROBENZ (UG/L)	4	--	--	--	--	--	--	--	--
77222	124-TRIMETHYLBEN (UG/L)	4	0.230	0.010	--	--	--	--	--	--
77226	135-TRIMETHYL BE (UG/L)	4	--	--	--	--	--	--	--	--
34566	13DICHLORO-BENZE (UG/L)	4	--	--	--	--	--	--	--	--
34571	14DICHLORO-BENZE (UG/L)	4	--	--	--	--	--	--	--	--
77223	ISOPROPYL-BENZEN (UG/L)	4	--	--	--	--	--	--	--	--
77342	N-BUTYL-BENZENE (UG/L)	4	--	--	--	--	--	--	--	--
77224	N-PROPYL-BENZENE (UG/L)	4	--	--	--	--	--	--	--	--
34536	O-DICHLORO-BENZE (UG/L)	4	--	--	--	--	--	--	--	--
77350	SEC-BUTYL-BENZEN (UG/L)	4	--	--	--	--	--	--	--	--
77353	TERT-BUTYL-BENZE (UG/L)	4	--	--	--	--	--	--	--	--
34030	BENZENE, TOTAL UG/L	4	--	--	--	--	--	--	--	--
81555	BROMOBENZENE WAT UG/L	4	--	--	--	--	--	--	--	--
50002	BROMOETHENE (UG/L)	4	--	--	--	--	--	--	--	--
32104	BROMOFORM TOTAL UG/L	4	--	--	--	--	--	--	--	--
77041	CARBON DISULFIDE UG/L	4	--	--	--	--	--	--	--	--
32102	CARBON TETRACHLO UG/L	4	--	--	--	--	--	--	--	--
34301	CHLOROBENZENE (UG/L)	4	--	--	--	--	--	--	--	--
32105	CHLORODIBROMOMET UG/L	4	--	--	--	--	--	--	--	--
34311	CHLOROETHANE UG/L	4	--	--	--	--	--	--	--	--
32106	CHLOROFORM TOTAL UG/L	4	--	--	--	--	--	--	--	--
77093	CIS1,2DICHL.ETHE UG/L	4	--	--	--	--	--	--	--	--
34704	CIS1,3-DICHL.PRO UG/L	4	--	--	--	--	--	--	--	--
82625	DIBROMOCHLOROPRO UG/L	4	--	--	--	--	--	--	--	--
30217	DIBROMOMETHANE,W UG/L	4	--	--	--	--	--	--	--	--
32101	BROMODICHLOROMET UG/L	4	--	--	--	--	--	--	--	--

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		Minnesota data, September 1992 through April 1997--Continued								
34668	DICHL.DIFL.METHA (UG/L)	4	--	--	--	--	--	--	--	--
81577	DIISOPROPYLETHER UG/L	4	--	--	--	--	--	--	--	--
77562	1112TETRACHLORO- (UG/L)	4	--	--	--	--	--	--	--	--
34516	1122TETRACHLORO (UG/L)	4	--	--	--	--	--	--	--	--
34396	ETHANE, HEXACHLO (UG/L)	4	--	--	--	--	--	--	--	--
81576	ETHER, ETHYL, UN (UG/L)	4	--	--	--	--	--	--	--	--
50004	T-BUTYL ETHYL ET (UG/L)	4	--	--	--	--	--	--	--	--
50005	T-PENTYL METHYLE (UG/L)	4	--	--	--	--	--	--	--	--
34371	ETHYLBENZENE TOT (UG/L)	4	--	--	--	--	--	--	--	--
77652	FREON 113 UNF RE (UG/L)	4	--	--	--	--	--	--	--	--
81607	FURAN, TETRAHYDR (UG/L)	4	--	--	--	--	--	--	--	--
39702	HEXACHLOROBUTADI UG/L	4	--	--	--	--	--	--	--	--
50000	ISODURENE (UG/L)	4	--	--	--	--	--	--	--	--
73570	METHACRYLATE, ET (UG/L)	4	--	--	--	--	--	--	--	--
81597	METHACRYLATE, ME (UG/L)	4	--	--	--	--	--	--	--	--
81593	METHACRYLONITRIL (UG/L)	4	--	--	--	--	--	--	--	--
77297	METHANE BROMOCHL (UG/L)	4	--	--	--	--	--	--	--	--
49991	METHYL ACRYLATE (UG/L)	4	--	--	--	--	--	--	--	--
77424	METHYL IODIDE (UG/L)	4	--	--	--	--	--	--	--	--
78032	MTBE (UG/L)	4	--	--	--	--	--	--	--	--
34413	METHYLBROMIDE TO (UG/L)	4	--	--	--	--	--	--	--	--
34418	METHYLCHLORIDE,T (UG/L)	4	--	--	--	--	--	--	--	--
34423	METHYLENE CHLORI (UG/L)	4	--	--	--	--	--	--	--	--
81595	METH.ETHYL KETON UG/L	4	--	--	--	--	--	--	--	--
78133	METH.ISOBU.KETON UG/L	4	--	--	--	--	--	--	--	--
85795	M/P XYLENE UNFLT (UG/L)	4	0.420	0.030	--	--	--	--	--	--
34696	NAPHTHALENE TOTA (UG/L)	4	--	--	--	--	--	--	--	--
77275	O-CHLOROTOLUENE UG/L	4	--	--	--	--	--	--	--	--
77135	TOT. O-XYLENE (U (UG/L)	4	0.100	0.010	--	--	--	--	--	--
77356	P-ISOPROPYLTOLUE (UG/L)	4	--	--	--	--	--	--	--	--
49999	1234TETRAMETHYL (UG/L)	4	--	--	--	--	--	--	--	--
77173	1,3DICHLPROPANE UG/L	4	--	--	--	--	--	--	--	--
78109	PROPENE, 3-CHLOR (UG/L)	4	--	--	--	--	--	--	--	--
77128	STYRENE, TOTAL UG/L	4	--	--	--	--	--	--	--	--
34475	TETRACHLOROETHYL (UG/L)	4	--	--	--	--	--	--	--	--

Supplement 34. Statistical summary of water-quality data for the Red River of the North at Grand Forks, N. Dak., gaging station 05082500, June 1949 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, September 1992 through April 1997--Continued							
77220	TOLUENE, O-ETHYL (UG/L)	4	--	--	--	--	--	--	--	--
77277	P-CHLORO-TOLUENE (UG/L)	4	--	--	--	--	--	--	--	--
34010	TOLUENE, TOTAL UG/L	4	--	--	--	--	--	--	--	--
34699	TR1,3-DICHL.PROP UG/L	4	--	--	--	--	--	--	--	--
39180	TRICHLOROETHYLEN UG/L	4	--	--	--	--	--	--	--	--
34488	TRICH.FLUOR.METH (UG/L)	4	--	--	--	--	--	--	--	--
39175	VINYL CHLORIDE T UG/L	4	--	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	28	100.000	95.000	99.036	100.000	100.000	99.000	98.250	95.900
80154	CONCENTRATION,S. MG/L	28	454.000	6.000	139.571	391.000	218.500	123.000	50.250	6.450
80155	DISCHARGE,SUSP.S T/DAY	22	27500.000	24.000	4648.864	25940.004	6515.000	1785.000	539.000	25.200
80294	BED MAT FD DW<.0 PERCENT <.002M	1	41.000	--	--	--	--	--	--	--
80157	SED-BED-FALL-D-. %	1	52.000	--	--	--	--	--	--	--
80293	BED MAT FD DW<.0 PERCENT> .008M	1	54.000	--	--	--	--	--	--	--
80282	BED MAT FD DW<.0 PERCENT <.016M	1	62.000	--	--	--	--	--	--	--
80283	BED MAT FD DW<.0 PERCENT <.031M	1	73.000	--	--	--	--	--	--	--
80158	SED-BED-FALL-D-. %	1	81.000	--	--	--	--	--	--	--
80159	SED-BED-FALL-D-. %	1	90.000	--	--	--	--	--	--	--
80160	SED-BED-FALL-D-. %	1	97.000	--	--	--	--	--	--	--
80161	SED-BED-FALL-D-. %	1	100.000	--	--	--	--	--	--	--
80162	SED-BED-FALL-D-1 %	1	100.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 35. Statistical summary of water-quality data for the Turtle River at Manvel, N. Dak., gaging station 05083000, October 1971 through October 1991

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through October 1991							
00065	GAGE HEIGHT (FEET)	1	4.820	--	--	--	--	--	--	--
00060	DISCHARGE CFS	13	1450.000	0.200	154.315	1450.000	60.000	5.900	2.500	0.200
00061	DISCHARGE, INST. CFS	28	1140.000	3.600	215.036	1014.450	378.250	57.000	18.250	3.735
00540	RESIDUE FIXED (MG/L)	41	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	41	11.000	0.000	2.250	6.024	2.780	1.900	1.075	0.000
70302	DISSOLVED SOLIDS TONS/DAY	41	2270.000	0.000	419.960	1853.000	609.000	192.000	22.150	0.000
70300	RESIDUE DIS 180C MG/L	37	4440.000	465.000	1614.432	4332.000	2045.000	1400.000	904.000	488.400
70301	DISSOLVED SOLIDS MG/L	41	8120.000	0.000	1637.195	4509.000	2015.000	1360.000	777.000	0.000
00076	TURBIDITY (NTU)	10	14.000	1.000	7.050	14.000	13.250	6.200	2.250	1.000
00301	OXYGEN DIS. PERC % OF SATURATIO	41	0.000	--	--	--	--	--	--	--
00400	PH, WH, FIELD (STANDARD UNIT	40	8.400	6.700	7.815	8.300	8.100	7.800	7.600	7.200
00403	PH, WH, LABORATO (STANDARD UNIT	17	9.300	6.600	7.753	9.300	8.050	7.700	7.450	6.600
00094	FIELD CONDUCTIVI US/CM @ 25C	7	2530.000	779.000	1515.857	2530.000	2400.000	1170.000	882.000	779.000
90095	SPECIFIC CONDUCT MICROSIEMENS/C	10	7080.000	820.000	3238.000	7080.000	4637.500	3030.000	1672.500	820.000
00095	SPECIFIC CONDUCT US/CM @ 25C	41	7300.000	770.000	2644.585	6883.003	3415.000	2300.000	1495.000	807.000
00020	AIR TEMPERATURE DEGREES C	13	27.000	0.000	11.692	27.000	22.250	8.500	4.000	0.000
00010	WATER TEMPERATUR (DEGREES C)	41	25.000	0.000	8.232	23.800	15.500	6.500	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	41	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	41	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	41	1700.000	0.000	302.195	989.000	425.000	250.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	41	890.000	0.000	108.049	861.000	50.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	41	1800.000	0.000	549.268	1200.000	730.000	500.000	310.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	38	410.000	54.000	137.579	258.000	175.000	125.000	83.750	54.950
00925	MAGNESIUM DISSOL (MG/L AS MG)	38	200.000	18.000	60.737	152.500	75.500	55.000	31.000	18.950
00935	POTASSIUM DISSOL (MG/L AS K)	38	83.000	8.100	18.053	40.250	18.000	15.500	12.750	9.810
00931	SODIUM ADSORPTIO (RATIO)	41	21.000	0.000	5.951	14.000	7.500	5.000	3.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	8	2200.000	160.000	493.750	2200.000	322.500	280.000	195.000	160.000
00930	SODIUM DISSOLVED (MG/L AS NA)	38	2100.000	63.000	398.000	1149.999	465.000	285.000	177.500	77.250
00932	SODIUM, PERCENT PERCENT	41	73.000	0.000	49.976	69.700	58.500	53.000	47.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	41	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	17	282.000	60.000	180.118	282.000	255.000	170.000	110.000	60.000
00410	ANC, FET, FIELD (MG/L AS CACO3	21	398.000	100.000	219.476	396.500	288.500	200.000	140.000	101.000
95440	BICARBONATE MG/L AS CACO3	7	330.000	40.000	167.143	330.000	210.000	140.000	120.000	40.000
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	13	480.000	160.000	319.231	480.000	415.000	330.000	240.000	160.000
95445	CARBONATE MG/L AS CO3	7	17.000	0.000	2.429	17.000	0.000	0.000	0.000	0.000

Supplement 35. Statistical summary of water-quality data for the Turtle River at Manvel, N. Oak., gaging station 05083000, October 1971 through October 1991--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through October 1991--Continued							
00445	ANC CARB FET FIE (MG/L AS CO3)	13	6.000	0.000	0.462	6.000	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	38	3600.000	89.000	621.289	2079.999	765.000	435.000	267.500	108.950
00950	FLUORIDE DISSOLV (MG/L AS F)	38	1.500	0.100	0.453	1.215	0.500	0.400	0.300	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	38	31.000	0.200	15.413	29.100	17.000	15.000	12.000	4.285
00945	SULFATE DISSOLVE (MG/L AS SO4)	38	1600.000	100.000	389.474	915.999	427.500	330.000	225.000	128.500
71846	NITR. NH4 AS NH4 MG/L AS NH4	41	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	41	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	41	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	41	2.200	0.000	0.246	1.880	0.230	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	41	9.700	0.000	1.344	8.310	1.700	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	41	0.000	--	--	--	--	--	--	--
71850	N, NITRATE TOTAL MG/L AS NO3	1	1.000	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	18	2.200	--	*0.508	*2.200	*0.755	*0.305	*0.143	*0.051
00630	NO2 + NO3 TOTAL (MG/L AS N)	41	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	41	0.000	--	--	--	--	--	--	--
00613	NITROGEN,NITRITE MG/L AS N	1	--	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	41	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	41	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	41	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	41	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	41	1.400	--	*0.240	*0.767	*0.390	*0.090	*0.013	*0.003
00650	PHOSPHATE TOTAL (MG/L AS PO4)	41	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	41	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	41	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	41	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	41	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	29	0.450	--	*0.104	*0.350	*0.180	*0.070	*0.010	*0.003
00621	NITROGEN NITRATE (MG/KG AS N)	41	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	41	29.000	0.000	6.415	20.600	9.500	4.100	2.600	0.000
00690	CARBON INORG + O (MG/L AS C)	41	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	41	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	41	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	41	0.000	--	--	--	--	--	--	--
31625	COLIFORM FECAL 0 COLS./100 ML	17	8200.000	2.000	693.588	8200.000	680.000	30.000	7.500	2.000
31673	FECAL STREP,KF M COLS./100 ML	17	11000.000	0.000	1985.294	11000.000	1700.000	390.000	125.000	0.000

Supplement 35. Statistical summary of water-quality data for the Turtle River at Manvel, N. Dak., gaging station 05083000, October 1971 through October 1991--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, October 1971 through October 1991–Continued									
01000	ARSENIC DISSOLVE (UG/L AS AS)	7	5.000	--	*2.753	*5.000	*3.000	*3.000	*2.000	*1.268
01020	BORON DISSOLVED (UG/L AS B)	38	14000.000	40.000	879.737	2694.991	645.000	435.000	260.000	78.000
01046	IRON DISSOLVED (UG/L AS FE)	38	130.000	--	*45.573	*101.500	*62.500	*40.000	*20.000	*10.736
01049	LEAD DISSOLVED (UG/L AS PB)	7	--	--	--	--	--	--	--	--
01130	LITHIUM DISSOLVE (UG/L AS LI)	7	140.000	49.000	82.143	140.000	130.000	60.000	50.000	49.000
01056	MANGANESE DISSOL (UG/L AS MN)	37	1500.000	10.000	334.541	977.999	435.000	280.000	115.000	28.000
71890	MERCURY DISSOLVE UG/L AS HG	7	0.400	0.000	0.186	0.400	0.300	0.200	0.100	0.000
01060	MOLYBDENUM DISSO (UG/L AS MO)	7	4.000	--	*1.965	*4.000	*2.000	*2.000	*1.000	*0.752
01145	SELENIUM DISSOLV (UG/L AS SE)	7	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	7	1700.000	420.000	971.429	1700.000	1600.000	780.000	590.000	420.000
82068	POTSSSIUM 40 DIS (PCI/L AS K40)	4	16.000	11.000	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	2	100.000	96.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	41	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	15	106.000	6.000	41.067	106.000	50.000	40.000	27.000	6.000
80155	DISCHARGE,SUSP.S T/DAY	41	79.000	0.000	6.195	45.900	4.000	0.000	0.000	0.000

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 36. Statistical summary of water-quality data for the Forest River at Minto, N. Dak., gaging station 05085000, October 1971 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, October 1971 through April 2001									
00065	GAGE HEIGHT (FEET)	4	3.910	1.270	--	--	--	--	--	--
00060	DISCHARGE CFS	32	2000.000	0.100	159.570	1499.500	56.750	8.150	3.475	0.230
00061	DISCHARGE, INST. CFS	266	6210.000	0.030	218.966	1392.000	56.250	14.000	4.975	0.693
00540	RESIDUE FIXED (MG/L)	300	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	300	238.000	0.000	1.007	0.850	0.582	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	300	2870.000	0.000	45.546	287.601	4.900	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	92	1370.000	171.000	515.761	761.700	581.500	511.000	443.000	254.700
70301	DISSOLVED SOLIDS MG/L	300	1370.000	0.000	152.657	595.900	409.750	0.000	0.000	0.000
00025	AIR PRESSURE (MM OF HG)	1	730.000	--	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	12	12.400	1.800	7.908	12.400	10.700	8.750	4.850	1.800
00301	OXYGEN DIS. PERC % OF SATURATIO	300	94.000	0.000	3.033	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	98	8.800	7.100	7.960	8.405	8.200	8.000	7.700	7.300
00403	PH, WH, LABORATO (STANDARD UNIT	30	8.500	6.700	7.893	8.390	8.200	8.050	7.675	6.810
00094	FIELD CONDUCTIVI US/CM @ 25C	15	918.000	390.000	667.133	918.000	812.000	679.000	489.000	390.000
90095	SPECIFIC CONDUCT MICROSIEMENS/C	23	1080.000	487.000	812.957	1062.000	908.000	820.000	776.000	493.400
00095	SPECIFIC CONDUCT US/CM @ 25C	286	2120.000	240.000	816.979	1300.000	940.000	801.000	670.000	366.300
00020	AIR TEMPERATURE DEGREES C	157	34.000	-22.000	9.846	29.050	19.500	11.000	1.000	-15.000
00010	WATER TEMPERATUR (DEGREES C)	293	27.000	0.000	8.894	24.000	17.500	6.500	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	300	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	300	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	300	270.000	0.000	17.487	110.000	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	300	87.000	0.000	0.763	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	300	840.000	0.000	102.467	400.000	270.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	92	180.000	32.000	78.935	120.000	88.000	78.000	69.500	36.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	92	140.000	7.300	33.302	49.350	37.000	33.500	28.250	13.300
00935	POTASSIUM DISSOL (MG/L AS K)	92	62.000	3.600	7.447	10.350	8.100	6.750	5.300	4.500
00931	SODIUM ADSORPTIO (RATIO)	300	2.000	0.000	0.275	1.000	0.700	0.000	0.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	5	70.000	37.000	--	--	--	--	--	--
00930	SODIUM DISSOLVED (MG/L AS NA)	92	170.000	6.000	41.046	64.700	48.750	38.000	32.000	18.000
00932	SODIUM, PERCENT PERCENT	300	30.000	0.000	6.207	24.000	16.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	300	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	40	330.000	103.000	211.350	299.250	252.250	232.500	162.500	110.400
00418	ALKALINITY,DIS,F (MG/L AS CACO3	1	356.000	--	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	54	567.000	76.000	251.611	402.250	284.000	246.000	220.250	108.250
95440	BICARBONATE MG/L AS CACO3	23	400.000	120.000	256.087	388.000	310.000	290.000	190.000	122.000

Supplement 36. Statistical summary of water-quality data for the Forest River at Minto, N. Dak., gaging station 05085000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001—Continued							
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	54	690.000	93.000	304.130	487.500	332.500	295.000	270.000	130.000
95445	CARBONATE MG/L AS CO3	23	4.000	0.000	0.217	3.400	0.000	0.000	0.000	0.000
00445	ANC CARB FET FIE (MG/L AS CO3)	54	12.000	0.000	1.148	9.500	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	92	270.000	1.300	32.110	70.350	38.000	24.000	18.000	9.930
00950	FLUORIDE DISSOLV (MG/L AS F)	92	0.600	0.100	0.202	0.500	0.200	0.200	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	80	31.000	4.900	17.534	26.950	20.750	17.000	14.000	10.000
00945	SULFATE DISSOLVE (MG/L AS SO4)	92	290.000	36.000	146.641	240.500	177.500	140.000	120.000	72.650
71846	NITR. NH4 AS NH4 MG/L AS NH4	300	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	300	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	300	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	300	2.700	0.000	0.083	0.560	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	300	12.000	0.000	0.393	2.690	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	300	0.000	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	300	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	300	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	300	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	300	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	300	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	300	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	300	0.860	0.000	0.022	0.150	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	300	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	300	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	300	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	300	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	300	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	25	0.130	--	*0.030	*0.124	*0.050	*0.023	*0.003	*0.002
00621	NITROGEN NITRATE (MG/KG AS N)	300	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	300	45.000	0.000	2.226	11.950	2.250	0.000	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	10	19.000	3.400	10.080	19.000	17.000	7.850	3.925	3.400
00689	CARBON ORGANIC P (MG/L AS C)	8	2.300	--	*1.108	*2.300	*2.075	*0.850	*0.400	*0.162
00690	CARBON INORG + O (MG/L AS C)	300	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	300	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	300	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	300	0.000	--	--	--	--	--	--	--
31501	TOT COLI,MENDO M COLS./100 ML	1	480.000	--	--	--	--	--	--	--

Supplement 36. Statistical summary of water-quality data for the Forest River at Minto, N. Dak., gaging station 05085000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
31616	FECAL COLI,MFC M COLS./100 ML	10	230.000	--	*51.502	*230.000	*112.500	*8.000	*0.565	*0.083
31679	FECAL STRPT MF M COLS./100 ML	10	460.000	--	*134.174	*460.000	*220.000	*90.000	*9.621	*4.256
01000	ARSENIC DISSOLVE (UG/L AS AS)	38	20.000	1.000	3.947	11.450	5.000	3.000	2.000	1.000
01020	BORON DISSOLVED (UG/L AS B)	79	500.000	--	*125.357	*310.000	*190.000	*90.000	*50.000	*21.174
01046	IRON DISSOLVED (UG/L AS FE)	92	2000.000	--	*73.726	*250.000	*60.000	*30.000	*10.000	*2.708
01049	LEAD DISSOLVED (UG/L AS PB)	38	2.000	--	*0.623	*2.000	*0.823	*0.507	*0.330	*0.173
01130	LITHIUM DISSOLVE (UG/L AS LI)	38	50.000	13.000	30.947	50.000	37.750	30.000	23.000	16.800
01056	MANGANESE DISSOL (UG/L AS MN)	91	15000.000	10.000	377.912	778.000	280.000	150.000	80.000	16.000
71890	MERCURY DISSOLVE UG/L AS HG	38	0.800	--	*0.140	*0.515	*0.200	*0.100	*0.037	*0.013
01060	MOLYBDENUM DISSO (UG/L AS MO)	36	5.000	--	*1.665	*5.000	*2.000	*1.000	*1.000	*0.348
01145	SELENIUM DISSOLV (UG/L AS SE)	38	3.000	--	*0.850	*2.050	*1.000	*0.731	*0.517	*0.312
01080	STRONTIUM DISSOL (UG/L AS SR)	38	530.000	120.000	308.684	511.000	370.000	310.000	250.000	120.000
07060	IRON 59 DISSOLVE (PCI/L)	2	3.000	2.000	--	--	--	--	--	--
70338	SED-SUSP-FALL-D- %	1	51.000	--	--	--	--	--	--	--
70340	SED-SUSP-FALL-D- %	1	78.000	--	--	--	--	--	--	--
70342	SED-SUSP-FALL-D- %	1	100.000	--	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	300	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	13	158.000	12.000	55.308	158.000	64.000	48.000	38.000	12.000
80155	DISCHARGE,SUSP.S T/DAY	300	147.000	0.000	0.585	0.000	0.000	0.000	0.000	0.000
80157	SED-BED-FALL-D-. %	1	31.000	--	--	--	--	--	--	--
80158	SED-BED-FALL-D-. %	2	85.000	7.000	--	--	--	--	--	--
80159	SED-BED-FALL-D-. %	2	91.000	8.000	--	--	--	--	--	--
80160	SED-BED-FALL-D-. %	2	94.000	14.000	--	--	--	--	--	--
80161	SED-BED-FALL-D-. %	2	96.000	41.000	--	--	--	--	--	--
80162	SED-BED-FALL-D-1 %	2	98.000	58.000	--	--	--	--	--	--
80169	SED-BED-SIEVE-2. %	2	99.000	69.000	--	--	--	--	--	--
80170	SED-BED-SIEVE-4. %	2	100.000	84.000	--	--	--	--	--	--
80171	SED-BED-SIEVE-8. %	1	94.000	--	--	--	--	--	--	--
80172	SED-BED-SIEVE-16 %	1	100.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 37. Statistical summary of water-quality data for the Snake River at Warren, Minn., gaging station 05085500, April 1979

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, April 1979							
00061	DISCHARGE, INST. CFS	1	1980.000	--	--	--	--	--	--	--
00540	RESIDUE FIXED (MG/L)	1	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	1	0.000	--	--	--	--	--	--	--
70302	DISSOLVED SOLIDS TONS/DAY	1	0.000	--	--	--	--	--	--	--
70301	DISSOLVED SOLIDS MG/L	1	0.000	--	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	1	0.000	--	--	--	--	--	--	--
00010	WATER TEMPERATUR (DEGREES C)	1	5.500	--	--	--	--	--	--	--
00904	HARDNESS NC. DIS (MG/L AS CACO3	1	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	1	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	1	0.000	--	--	--	--	--	--	--
00903	NONCARBONATE HAR (MG/L AS CACO3	1	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	1	0.000	--	--	--	--	--	--	--
00931	SODIUM ADSORPTIO (RATIO)	1	0.000	--	--	--	--	--	--	--
00932	SODIUM, PERCENT PERCENT	1	0.000	--	--	--	--	--	--	--
00435	ACIDITY TOTAL (MG/L AS CACO3	1	0.000	--	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	1	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	1	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	1	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	1	0.000	--	--	--	--	--	--	--
71851	NITR. NO3 AS NO3 MG/L AS NO3	1	0.000	--	--	--	--	--	--	--
00620	NITROGEN NITRATE MG/L AS N	1	0.000	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	1	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	1	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	1	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	1	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	1	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	1	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	1	0.000	--	--	--	--	--	--	--
00650	PHOSPHATE TOTAL (MG/L AS PO4)	1	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	1	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	1	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	1	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	1	0.000	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	1	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	1	0.000	--	--	--	--	--	--	--

Supplement 37. Statistical summary of water-quality data for the Snake River at Warren, Minn., gaging station 05085500, April 1979--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, April 1979--Continued							
00690	CARBON INORG + O (MG/L AS C)	1	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	1	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	1	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	1	0.000	--	--	--	--	--	--	--
70342	SED-SUSP-FALL-D- %	1	91.000	--	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	1	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	1	289.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	1	1540.000	--	--	--	--	--	--	--

Supplement 38. Statistical summary of water-quality data for the Middle River at Argyle, Minn., gaging station 05087500, April 1968 through September 2000

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, April 1968 through September 2000							
00065	GAGE HEIGHT (FEET)	3	5.560	3.960	--	--	--	--	--	--
00060	DISCHARGE CFS	2	38.000	15.000	--	--	--	--	--	--
00061	DISCHARGE, INST. CFS	6	4050.000	5.700	1005.267	4050.000	2242.500	165.000	5.850	5.700
00080	COLOR PLATINUM-COBAL	2	45.000	3.000	--	--	--	--	--	--
00540	RESIDUE FIXED (MG/L)	8	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	8	0.600	0.000	0.118	0.600	0.255	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	8	45.400	0.000	6.938	45.400	7.575	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	2	439.000	253.000	--	--	--	--	--	--
70301	DISSOLVED SOLIDS MG/L	8	403.000	0.000	79.750	403.000	176.250	0.000	0.000	0.000
00076	TURBIDITY (NTU)	3	32.000	4.600	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	3	750.000	738.000	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	3	9.900	5.600	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	8	86.000	0.000	29.625	86.000	80.750	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	6	8.200	7.700	7.917	8.200	8.125	7.900	7.700	7.700
00095	SPECIFIC CONDUCT US/CM @ 25C	6	644.000	368.000	510.500	644.000	641.000	511.500	383.000	368.000
00020	AIR TEMPERATURE DEGREES C	4	18.000	-10.000	--	--	--	--	--	--
00010	WATER TEMPERATUR (DEGREES C)	7	21.000	0.500	8.400	21.000	15.000	8.300	1.000	0.500
00904	HARDNESS NC. DIS (MG/L AS CACO3	8	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	8	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	8	73.000	0.000	15.375	73.000	37.500	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	8	0.000	--	--	--	--	--	--	--
00900	HARDNESS TOTAL (MG/L AS CAO3)	8	360.000	0.000	70.000	360.000	150.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	2	83.000	48.000	--	--	--	--	--	--
00925	MAGNESIUM DISSOL (MG/L AS MG)	2	39.000	19.000	--	--	--	--	--	--
00935	POTASSIUM DISSOL (MG/L AS K)	2	3.800	3.700	--	--	--	--	--	--
00931	SODIUM ADSORPTIO (RATIO)	8	0.200	0.000	0.038	0.200	0.075	0.000	0.000	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	2	7.300	4.300	--	--	--	--	--	--
00932	SODIUM, PERCENT PERCENT	8	4.000	0.000	1.000	4.000	3.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	8	0.000	--	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	2	292.000	149.000	--	--	--	--	--	--
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	2	360.000	180.000	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	2	0.000	--	--	--	--	--	--	--
00940	CHLORIDE DISSOLV (MG/L AS CL)	2	6.200	3.300	--	--	--	--	--	--
00950	FLUORIDE DISSOLV (MG/L AS F)	2	0.200	0.200	--	--	--	--	--	--
00955	SILICA DISSOLVED (MG/L AS SIO2)	2	10.000	9.900	--	--	--	--	--	--

Supplement 38. Statistical summary of water-quality data for the Middle River at Argyle, Minn., gaging station 05087500, April 1968 through September 2000--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	Minnesota data, April 1968 through September 2000--Continued									
00945	SULFATE DISSOLVE (MG/L AS SO4)	2	79.000	54.000	--	--	--	--	--	--
00625	NITROGEN AMM+ORG (MG/L AS N)	1	1.700	--	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	8	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	8	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	8	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	8	0.000	--	--	--	--	--	--	--
71851	NITR. NO3 AS NO3 MG/L AS NO3	8	1.900	0.000	0.237	1.900	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	8	0.000	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	8	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	8	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	8	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	8	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	8	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	8	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	8	0.220	0.000	0.053	0.220	0.150	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	8	0.730	0.000	0.091	0.730	0.000	0.000	0.000	0.000
00672	PHOSPHORUS HYDRO (MG/L AS P)	8	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	8	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	8	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	8	0.000	--	--	--	--	--	--	--
00665	PHOSPHORUS TOTAL (MG/L AS P)	1	0.250	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	8	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	8	5.800	0.000	1.175	5.800	2.700	0.000	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	3	18.000	12.000	--	--	--	--	--	--
00680	CARBON ORGANIC T (MG/L AS C)	2	19.000	16.000	--	--	--	--	--	--
00690	CARBON INORG + O (MG/L AS C)	8	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	8	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	8	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	8	0.000	--	--	--	--	--	--	--
01105	ALUMINUM TOTAL UG/L AS AL	2	400.000	400.000	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	2	60.000	20.000	--	--	--	--	--	--
01045	IRON TOTAL (UG/L AS FE)	2	80.000	60.000	--	--	--	--	--	--
01055	MANGANESE TOTAL (UG/L AS MN)	2	100.000	20.000	--	--	--	--	--	--
49295	1-NAPHTHOL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39742	2,4,5-T DISSOLVE UG/L	1	--	--	--	--	--	--	--	--

Supplement 38. Statistical summary of water-quality data for the Middle River at Argyle, Minn., gaging station 05087500, April 1968 through September 2000--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, April 1968 through September 2000--Continued							
39732	2,4-D DISSOLVED UG/L	1	0.360	--	--	--	--	--	--	--
38746	2,4-DB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82660	26DIETHYLANILINE (UG/L)	1	--	--	--	--	--	--	--	--
49308	3HYDRXYCARBOFURA (UG/L)	1	--	--	--	--	--	--	--	--
49315	ACIFLUORFEN FLTR (UG/L)	1	--	--	--	--	--	--	--	--
46342	ALACHLOR, DISS, UG/L	1	--	--	--	--	--	--	--	--
49313	ALDICARB SULFONE (UG/L)	1	--	--	--	--	--	--	--	--
49314	ALDICARB SULFOXI (UG/L)	1	--	--	--	--	--	--	--	--
49312	ALDICARB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
34253	ALPHA BHC UG/L	1	--	--	--	--	--	--	--	--
39632	ATRAZINE, DISS, UG/L	1	0.088	--	--	--	--	--	--	--
82673	BENFLURALIN FIL (UG/L)	1	--	--	--	--	--	--	--	--
38711	BENTAZON, FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04029	BROMACIL DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
49311	BROMOXYNIL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04028	BUTYLATE DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
49310	CARBARYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82680	CARBARYL FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
49309	CARBOFURAN FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82674	CARBOFURAN FIL . (UG/L)	1	0.019	--	--	--	--	--	--	--
49307	CHLORAMBEN FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49306	CHLOROTHALONIL F (UG/L)	1	--	--	--	--	--	--	--	--
38933	CHLORPYRIFOS, DI UG/L	1	--	--	--	--	--	--	--	--
49305	CLOPYRALID FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04041	CYANAZINE DISS R (UG/L)	1	--	--	--	--	--	--	--	--
49304	DACTHAL MONO-ACI (UG/L)	1	--	--	--	--	--	--	--	--
82682	DCPA FIL 0.7 REC (UG/L)	1	--	--	--	--	--	--	--	--
04040	DEETHYL ATRAZINE (UG/L)	1	0.012	--	--	--	--	--	--	--
39572	DIAZINON DISSOLV UG/L	1	--	--	--	--	--	--	--	--
38442	DICAMBA FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49303	DICHLOBENIL FLTR (UG/L)	1	--	--	--	--	--	--	--	--
49302	DICHLORPRO FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39381	DIELDRIN DISSOLV UG/L	1	--	--	--	--	--	--	--	--
49301	DINOSEB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82677	DISULFOTON FIL . (UG/L)	1	--	--	--	--	--	--	--	--

Supplement 38. Statistical summary of water-quality data for the Middle River at Argyle, Minn., gaging station 05087500, April 1968 through September 2000--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of semples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		Minnesota data, April 1968 through September 2000--Continued								
49300	DIURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49299	DNOC FLTD (UG/L)	1	--	--	--	--	--	--	--	--
82668	EPTC FIL 0.7 REC (UG/L)	1	--	--	--	--	--	--	--	--
49298	ESFENVALERATE FL (UG/L)	1	--	--	--	--	--	--	--	--
82663	ETHALFLURALIN FI (UG/L)	1	--	--	--	--	--	--	--	--
82672	ETHOPROP FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
49297	FENURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38811	FLUOMETURON FLT (UG/L)	1	--	--	--	--	--	--	--	--
04095	FONOFOX DISS REC (UG/L)	1	--	--	--	--	--	--	--	--
39341	LINDANE DISSOLVE UG/L	1	--	--	--	--	--	--	--	--
38478	LINURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82666	LINURON FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
39532	MALATHION DISSOL UG/L	1	--	--	--	--	--	--	--	--
38482	MCPA FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38487	MCPB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38501	METHIOCARB FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49296	METHOMYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82686	METHYL AZINPHOS (UG/L)	1	--	--	--	--	--	--	--	--
82667	METHYL PARATHION (UG/L)	1	--	--	--	--	--	--	--	--
39415	METOLACHLOR,WAT. UG/L	1	--	--	--	--	--	--	--	--
82630	METRIBUZIN,WAT.D UG/L	1	--	--	--	--	--	--	--	--
82671	MOLINATE FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82684	NAPROPAMIDE FIL (UG/L)	1	--	--	--	--	--	--	--	--
49294	NEBURON FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
49293	NORFLURAZON FLTR (UG/L)	1	--	--	--	--	--	--	--	--
49292	ORYZALIN FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38866	OXAMYL FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
34653	P,P' DDE DISSOLV (UG/L)	1	--	--	--	--	--	--	--	--
39542	PARATHION DISSOL UG/L	1	--	--	--	--	--	--	--	--
82669	PEBULATE FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82683	PENDIMETHALIN F. (UG/L)	1	--	--	--	--	--	--	--	--
82687	PERMETHRIN FIL . (UG/L)	1	--	--	--	--	--	--	--	--
82664	PHORATE FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
49291	PICLORAM FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
04037	PROMETON DISS RE (UG/L)	1	--	--	--	--	--	--	--	--

Supplement 38. Statistical summary of water-quality data for the Middle River at Argyle, Minn., gaging station 05087500, April 1968 through September 2000--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, April 1968 through September 2000--Continued							
82676	PRONAMIDE FIL .7 (UG/L)	1	--	--	--	--	--	--	--	--
04024	PROPACHLOR DISS (UG/L)	1	--	--	--	--	--	--	--	--
82679	PROPANIL FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82685	PROPARGITE FIL . (UG/L)	1	--	--	--	--	--	--	--	--
49236	PROPHAM FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
38538	PROPOXUR FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
39762	SILVEX DISSOLVED UG/L	1	--	--	--	--	--	--	--	--
04035	SIMAZINE DISS RE (UG/L)	1	--	--	--	--	--	--	--	--
82670	TEBUTHIURON FIL (UG/L)	1	--	--	--	--	--	--	--	--
82665	TERBACIL FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82675	TERBUFOS FIL 0.7 (UG/L)	1	--	--	--	--	--	--	--	--
82681	THIOBENCARB FIL (UG/L)	1	--	--	--	--	--	--	--	--
82678	TRIALLATE FIL .7 (UG/L)	1	--	--	--	--	--	--	--	--
49235	TRICLOPYR FLTRD (UG/L)	1	--	--	--	--	--	--	--	--
82661	TRIFLURALIN FIL (UG/L)	1	--	--	--	--	--	--	--	--
70342	SED-SUSP-FALL-D- %	1	78.000	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	3	71.000	53.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	8	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	5	347.000	21.000	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	8	2900.000	0.000	560.236	2900.000	1165.250	0.445	0.000	0.000

Supplement 39. Statistical summary of water-quality data for the Park River at Grafton, N. Dak., gaging station 05090000, September 1969 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, September 1969 through April 2001									
00065	GAGE HEIGHT (FEET)	3	8.900	6.930	--	--	--	--	--	--
00060	DISCHARGE CFS	52	4840.000	0.010	294.319	1912.998	80.250	3.800	0.150	0.010
00061	DISCHARGE, INST. CFS	232	8460.000	0.010	382.103	2883.500	116.000	8.250	1.425	0.066
00540	RESIDUE FIXED (MG/L)	284	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	284	349.000	0.000	1.496	1.305	0.438	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	284	2860.000	0.000	57.687	298.500	0.138	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	81	1450.000	83.000	684.457	1189.000	854.500	718.000	436.500	228.400
70301	DISSOLVED SOLIDS MG/L	284	1430.000	0.000	191.824	910.500	317.250	0.000	0.000	0.000
00025	AIR PRESSURE (MM OF HG)	1	746.000	--	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	1	12.200	--	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	284	86.000	0.000	0.303	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	84	8.700	7.200	7.907	8.400	8.100	7.900	7.700	7.400
00403	PH, WH, LABORATO (STANDARD UNIT	29	8.700	7.000	7.814	8.450	8.100	7.900	7.550	7.050
00094	FIELD CONDUCTIVI US/CM @ 25C	13	2410.000	360.000	1037.154	2410.000	1295.000	1030.000	570.500	360.000
90095	SPECIFIC CONDUCT MICROSIEMENS/C	22	2040.000	336.000	1008.773	1993.500	1327.500	952.000	575.000	342.450
00095	SPECIFIC CONDUCT US/CM @ 25C	270	2500.000	289.000	1079.100	1874.500	1360.000	1110.000	750.000	349.100
00020	AIR TEMPERATURE DEGREES C	133	32.000	-22.000	10.192	27.150	20.250	12.000	1.000	-12.300
00010	WATER TEMPERATUR (DEGREES C)	279	28.000	0.000	9.504	24.000	18.000	7.000	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	284	170.000	0.000	0.599	0.000	0.000	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	284	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	284	270.000	0.000	19.771	150.000	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	284	88.000	0.000	0.556	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	284	610.000	0.000	93.697	430.000	177.500	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	81	130.000	31.000	77.605	129.700	96.500	75.000	58.000	35.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	81	68.000	8.100	32.680	58.800	41.500	33.000	20.500	10.100
00935	POTASSIUM DISSOL (MG/L AS K)	81	16.000	3.800	8.951	14.000	11.000	8.600	7.400	5.010
00931	SODIUM ADSORPTIO (RATIO)	284	9.000	0.000	0.665	3.750	1.000	0.000	0.000	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	81	370.000	12.000	102.407	227.000	130.000	100.000	46.000	22.100
00932	SODIUM, PERCENT PERCENT	284	72.000	0.000	10.377	44.500	27.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	284	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	37	1110.000	92.000	232.649	405.299	275.000	224.000	133.000	99.200
00418	ALKALINITY,DIS,F (MG/L AS CACO3	1	285.000	--	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	1	286.000	--	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	45	358.000	76.000	210.533	302.500	261.500	214.000	168.500	83.300
95440	BICARBONATE MG/L AS CACO3	21	360.000	120.000	239.048	359.000	325.000	260.000	145.000	121.000

Supplement 39. Statistical summary of water-quality data for the Park River at Grafton, N. Dak., gaging station 05090000, September 1969 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, September 1969 through April 2001--Continued							
00453	BICARBONATE,DIS, (MG/L AS HCO3)	1	349.000	--	--	--	--	--	--	--
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	45	440.000	93.000	256.067	360.000	320.000	260.000	205.000	100.000
95445	CARBONATE MG/L AS CO3	21	7.000	0.000	0.333	6.300	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	1	0.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	45	6.000	0.000	0.289	3.700	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	81	410.000	6.200	96.525	240.000	136.500	81.000	31.000	14.100
00950	FLUORIDE DISSOLV (MG/L AS F)	81	2.000	0.100	0.364	0.900	0.450	0.300	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	70	27.000	4.300	15.323	23.450	19.000	15.500	12.000	6.450
00945	SULFATE DISSOLVE (MG/L AS SO4)	81	420.000	53.000	213.383	378.000	270.000	210.000	140.000	64.300
71846	NITR. NH4 AS NH4 MG/L AS NH4	284	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	284	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	284	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	284	2.900	0.000	0.053	0.392	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	284	13.000	0.000	0.345	2.500	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	284	0.000	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	284	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	284	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	284	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	284	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	284	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	284	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	284	0.760	0.000	0.014	0.000	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	284	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	284	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	284	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	284	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	284	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	7	0.250	--	*0.073	*0.250	*0.130	*0.040	*0.007	*0.005
00621	NITROGEN NITRATE (MG/KG AS N)	284	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	284	37.000	0.000	1.713	9.175	1.900	0.000	0.000	0.000
00690	CARBON INORG + O (MG/L AS C)	284	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	284	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	284	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	284	0.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	36	12.000	1.000	4.361	11.150	6.000	4.000	2.000	1.000

Supplement 39. Statistical summary of water-quality data for the Park River at Grafton, N. Dak., gaging station 05090000, September 1969 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, September 1969 through April 2001--Continued									
01020	BORON DISSOLVED (UG/L AS B)	70	830.000	--	*202.622	*598.000	*302.500	*180.000	*50.000	*21.283
71885	IRON UG/L AS FE	9	2900.000	0.000	593.342	2900.000	790.000	120.000	40.040	0.000
01046	IRON DISSOLVED (UG/L AS FE)	72	640.000	--	*75.113	*201.000	*100.000	*55.000	*20.000	*6.352
01049	LEAD DISSOLVED (UG/L AS PB)	36	2.000	--	*0.662	*1.150	*0.811	*0.595	*0.436	*0.277
01130	LITHIUM DISSOLVE (UG/L AS LI)	36	110.000	10.000	51.167	101.500	70.000	55.500	30.000	15.100
71883	MANGANESE UG/L AS MN	8	460.000	10.000	136.250	460.000	340.000	30.000	15.000	10.000
01056	MANGANESE DISSOL (UG/L AS MN)	71	850.000	10.000	211.408	652.000	300.000	130.000	50.000	10.000
71890	MERCURY DISSOLVE UG/L AS HG	36	1.000	--	*0.188	*0.915	*0.200	*0.100	*0.047	*0.016
01060	MOLYBDENUM DISSO (UG/L AS MO)	36	7.000	--	*2.622	*7.000	*4.000	*2.000	*1.000	*0.454
01145	SELENIUM DISSOLV (UG/L AS SE)	36	4.000	--	*0.770	*2.300	*1.000	*0.575	*0.354	*0.164
01080	STRONTIUM DISSOL (UG/L AS SR)	36	680.000	98.000	390.222	663.000	517.500	385.000	242.500	116.700
07060	IRON 59 DISSOLVE (PCI/L)	2	4.000	0.000	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	1	99.000	--	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	284	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	1	280.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	284	336.000	0.000	1.183	0.000	0.000	0.000	0.000	0.000

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 40. Statistical summary of water-quality data for the Red River of the North at Drayton, N. Dak., gaging station 05092000, October 1971 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, October 1971 through April 2001									
00065	GAGE HEIGHT (FEET)	2	41.400	14.350	--	--	--	--	--	--
00060	DISCHARGE CFS	35	30900.000	578.000	8035.086	30580.000	12500.000	2540.000	1800.000	875.600
00061	DISCHARGE, INST. CFS	360	92900.000	111.000	10253.241	37775.008	14575.000	3435.000	1372.500	281.700
00080	COLOR PLATINUM-COBAL	1	43.000	--	--	--	--	--	--	--
00540	RESIDUE FIXED (MG/L)	396	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	396	270.000	0.000	0.760	0.620	0.000	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	396	52700.000	0.000	1364.465	8953.497	0.000	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	56	932.000	179.000	413.071	661.050	481.000	392.500	335.000	199.550
70301	DISSOLVED SOLIDS MG/L	396	878.000	0.000	55.217	429.600	0.000	0.000	0.000	0.000
00025	AIR PRESSURE (MM OF HG)	2	780.000	737.000	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	2	11.900	10.500	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	396	80.000	0.000	0.391	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	57	8.700	7.200	8.067	8.610	8.300	8.100	7.800	7.490
00403	PH, WH, LABORATO (STANDARD UNIT	30	9.100	6.700	7.953	8.990	8.200	8.000	7.800	6.810
00094	FIELD CONDUCTIVI US/CM @ 25C	19	1020.000	296.000	635.368	1020.000	711.000	618.000	497.000	296.000
90095	SPECIFIC CONDUCT MICROSIEMENS/C	18	1450.000	394.000	713.944	1450.000	777.750	659.000	550.750	394.000
00095	SPECIFIC CONDUCT US/CM @ 25C	368	2010.000	275.000	651.228	1050.000	749.500	615.000	520.000	338.900
00020	AIR TEMPERATURE DEGREES C	210	32.000	-16.000	12.240	28.225	22.000	13.000	3.000	-7.000
00010	WATER TEMPERATUR (DEGREES C)	387	28.500	-2.000	10.264	24.500	18.000	9.000	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	396	100.000	0.000	0.399	0.000	0.000	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	396	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	396	100.000	0.000	2.505	0.000	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	396	62.000	0.000	0.227	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	396	480.000	0.000	35.934	281.500	0.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	56	98.000	29.000	57.643	85.650	66.750	56.000	48.500	31.700
00925	MAGNESIUM DISSOL (MG/L AS MG)	56	56.000	3.200	26.700	42.750	32.750	26.000	21.000	12.000
00935	POTASSIUM DISSOL (MG/L AS K)	56	12.000	3.100	6.707	10.300	8.200	6.650	5.000	3.600
00931	SODIUM ADSORPTIO (RATIO)	396	3.000	0.000	0.147	1.000	0.000	0.000	0.000	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	56	130.000	7.300	39.304	102.150	47.000	30.500	22.250	8.955
00932	SODIUM, PERCENT PERCENT	396	46.000	0.000	3.192	22.000	0.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	396	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	38	310.000	95.000	195.447	310.000	230.750	195.000	160.000	99.750
00418	ALKALINITY,DIS,F (MG/L AS CACO3	2	316.000	299.000	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	2	320.000	303.000	--	--	--	--	--	--
00410	ANC, FET, FIELD (MG/L AS CACO3	18	233.000	93.000	166.389	233.000	198.250	175.000	128.250	93.000

Supplement 40. Statistical summary of water-quality data for the Red River of the North at Drayton, N. Dak., gaging station 05092000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constitoent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, October 1971 through April 2001--Continued								
95440	BICARBONATE MG/L AS CACO3	23	380.000	92.000	233.565	380.000	270.000	230.000	190.000	97.600
00453	BICARBONATE,DIS, (MG/L AS HCO3)	2	390.000	370.000	--	--	--	--	--	--
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	18	280.000	110.000	201.667	280.000	242.500	210.000	155.000	110.000
95445	CARBONATE MG/L AS CO3	23	15.000	0.000	1.826	15.000	0.000	0.000	0.000	0.000
00452	CARBONATE,DIS,IT (MG/L AS CO3)	2	0.000	--	--	--	--	--	--	--
00445	ANC CARB FET FIE (MG/L AS CO3)	17	6.000	0.000	0.471	6.000	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	56	160.000	4.800	45.579	143.000	53.250	30.500	21.250	6.140
00950	FLUORIDE DISSOLV (MG/L AS F)	55	0.400	0.100	0.182	0.300	0.200	0.200	0.100	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	44	16.000	2.300	10.745	16.000	13.000	11.000	8.375	3.025
00945	SULFATE DISSOLVE (MG/L AS SO4)	56	220.000	35.000	91.304	161.500	120.000	88.000	64.250	37.000
00608	NITROGEN AMMONIA (MG/L AS N)	1	0.230	--	--	--	--	--	--	--
00623	NITRO AMN & ORG (MG/L AS N)	1	1.100	--	--	--	--	--	--	--
71846	NITR. NH4 AS NH4 MG/L AS NH4	396	0.300	0.000	0.001	0.000	0.000	0.000	0.000	0.000
71845	NITROGEN, NH4, T MG/L AS NH4	396	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	396	1.900	0.000	0.005	0.000	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	396	3.600	0.000	0.032	0.000	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	396	16.000	0.000	0.168	0.000	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	396	0.000	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	1	0.770	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	396	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	396	0.000	--	--	--	--	--	--	--
00613	NITROGEN,NITRITE MG/L AS N	1	--	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	396	0.870	0.000	0.002	0.000	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	396	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	396	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	396	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	396	0.570	0.000	0.009	0.000	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	396	0.000	--	--	--	--	--	--	--
00666	PHOSPHORUS DISS. (MG/L AS P)	1	0.110	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	396	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	396	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	396	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	396	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	5	--	--	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	396	0.000	--	--	--	--	--	--	--

Supplement 40. Statistical summary of water-quality data for the Red River of the North at Drayton, N. Dak., gaging station 05092000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
00405	CARBON DIOXIDE D (MG/L AS CO2)	396	14.000	0.000	0.453	3.315	0.000	0.000	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	1	9.100	--	--	--	--	--	--	--
00689	CARBON ORGANIC P (MG/L AS C)	1	0.300	--	--	--	--	--	--	--
00690	CARBON INORG + O (MG/L AS C)	396	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	396	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	396	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	396	0.000	--	--	--	--	--	--	--
31625	COLIFORM FECAL 0 COLS./100 ML	1	--	--	--	--	--	--	--	--
31673	FECAL STREP,KF M COLS./100 ML	1	250.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	38	8.000	--	*3.531	*8.000	*5.000	*3.000	*2.000	*1.000
01005	BARIUM DISSOLVED (UG/L AS BA)	1	86.000	--	--	--	--	--	--	--
01010	BERYLLIUM DISSOL (UG/L AS BE)	1	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	44	1100.000	--	*133.265	*452.500	*150.000	*85.000	*60.000	*22.439
01025	CADMIUM DISSOLVE (UG/L AS CD)	1	--	--	--	--	--	--	--	--
01030	CHROMIUM DISSOLV (UG/L AS CR)	1	--	--	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	1	--	--	--	--	--	--	--	--
01040	COPPER DISSOLVED (UG/L AS CU)	1	--	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	55	820.000	10.000	79.636	322.000	90.000	40.000	20.000	10.000
01049	LEAD DISSOLVED (UG/L AS PB)	38	10.000	--	*0.656	*4.300	*0.612	*0.148	*0.043	*0.007
01130	LITHIUM DISSOLVE (UG/L AS LI)	38	70.000	1.000	29.474	51.000	40.000	30.000	20.000	9.550
01056	MANGANESE DISSOL (UG/L AS MN)	55	100.000	--	*18.498	*54.000	*20.000	*10.000	*6.661	*2.810
71890	MERCURY DISSOLVE UG/L AS HG	38	0.600	--	*0.147	*0.600	*0.200	*0.086	*0.033	*0.010
01060	MOLYBDENUM DISSO (UG/L AS MO)	38	4.000	--	*1.469	*4.000	*2.000	*1.000	*0.679	*0.329
01065	NICKEL DISSOLVED (UG/L AS NI)	1	--	--	--	--	--	--	--	--
01145	SELENIUM DISSOLV (UG/L AS SE)	38	3.000	--	*0.521	*3.000	*0.614	*0.295	*0.140	*0.046
01075	SILVER DISSOLVED (UG/L AS AG)	1	1.000	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	38	700.000	1.000	273.263	500.500	330.750	265.000	210.000	104.550
01085	VANADIUM DISSOLV (UG/L AS V)	1	--	--	--	--	--	--	--	--
01090	ZINC DISSOLVED (UG/L AS ZN)	1	9.000	--	--	--	--	--	--	--
82082	HYDROGEN 2 / 1 R RATIO PER MIL	1	-74.000	--	--	--	--	--	--	--

Supplement 40. Statistical summary of water-quality data for the Red River of the North at Drayton, N. Dak., gaging station 05092000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
07060	IRON 59 DISSOLVE (PCI/L)	2	2.000	1.000	--	--	--	--	--	--
82085	OXYGEN 18 / 16 R RATIO PER MIL	1	-9.000	--	--	--	--	--	--	--
07000	TRITIUM TOTAL (PCI/L)	1	56.000	--	--	--	--	--	--	--
75985	TRITIUM PREC EST PCI/L	1	5.800	--	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	396	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	396	0.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 41. Statistical summary of water-quality data for the Pembina River at Neche, N. Dak., gaging station 05100000, October 1971 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, October 1971 through April 2001									
00065	GAGE HEIGHT (FEET)	1	2.620	--	--	--	--	--	--	--
00060	DISCHARGE CFS	29	2050.000	2.700	432.121	1940.000	770.000	107.000	40.000	6.000
00061	DISCHARGE, INST. CFS	291	19000.000	0.040	1208.822	6562.000	816.000	108.000	19.000	2.320
00540	RESIDUE FIXED (MG/L)	320	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	320	205.000	0.000	0.748	0.790	0.000	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	320	6950.000	0.000	149.520	660.901	0.000	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	54	763.000	194.000	469.574	639.250	584.000	519.000	363.750	213.250
70301	DISSOLVED SOLIDS MG/L	320	761.000	0.000	76.328	562.800	0.000	0.000	0.000	0.000
00025	AIR PRESSURE (MM OF HG)	1	745.000	--	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	1	12.400	--	--	--	--	--	--	--
00301	OXYGEN DIS. PERC % OF SATURATIO	320	92.000	0.000	0.287	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	54	8.700	6.700	8.035	8.500	8.325	8.100	7.800	7.400
00403	PH, WH, LABORATO (STANDARD UNIT	30	8.500	6.400	7.937	8.500	8.200	8.050	7.775	6.620
00094	FIELD CONDUCTIVI US/CM @ 25C	17	1100.000	374.000	720.824	1100.000	864.500	802.000	553.000	374.000
90095	SPECIFIC CONDUCT MICROSIEMENS/C	18	910.000	374.000	675.778	910.000	840.750	721.000	528.750	374.000
00095	SPECIFIC CONDUCT US/CM @ 25C	281	1700.000	250.000	780.918	1150.000	941.500	820.000	583.500	355.300
00020	AIR TEMPERATURE DEGREES C	181	33.000	-28.000	9.912	26.000	20.000	10.000	2.000	-13.850
00010	WATER TEMPERATUR (DEGREES C)	314	28.000	0.000	9.624	24.000	17.625	7.750	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	320	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	320	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	320	130.000	0.000	4.584	35.600	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	320	95.000	0.000	0.622	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	320	570.000	0.000	48.056	360.000	0.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	54	140.000	26.000	69.148	102.500	90.000	70.000	50.500	32.250
00925	MAGNESIUM DISSOL (MG/L AS MG)	54	53.000	8.000	27.046	40.500	36.000	29.500	19.500	9.625
00935	POTASSIUM DISSOL (MG/L AS K)	54	13.000	3.200	8.402	12.250	10.250	8.400	6.200	3.825
00931	SODIUM ADSORPTIO (RATIO)	320	1.000	0.000	0.160	1.000	0.000	0.000	0.000	0.000
00930	SODIUM DISSOLVED (MG/L AS NA)	54	59.000	19.000	39.815	55.000	49.000	42.000	28.750	19.750
00932	SODIUM, PERCENT PERCENT	320	34.000	0.000	3.925	24.000	0.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	320	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	38	350.000	97.000	207.737	302.500	265.500	222.000	138.500	99.850
00410	ANC, FET, FIELD (MG/L AS CACO3	17	278.000	88.000	191.471	278.000	262.000	181.000	124.000	88.000
95440	BICARBONATE MG/L AS CACO3	23	420.000	120.000	253.043	408.000	320.000	290.000	160.000	120.000
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	17	340.000	110.000	229.412	340.000	320.000	210.000	150.000	110.000
95445	CARBONATE MG/L AS CO3	23	10.000	0.000	0.783	9.200	0.000	0.000	0.000	0.000

Supplement 41. Statistical summary of water-quality data for the Pembina River at Neche, N. Dak., gaging station 05100000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
00445	ANC CARB FET FIE (MG/L AS CO3)	17	13.000	0.000	1.824	13.000	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	54	34.000	3.400	14.196	28.750	18.000	14.500	8.025	5.350
00950	FLUORIDE DISSOLV (MG/L AS F)	54	0.600	0.100	0.235	0.400	0.300	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	43	32.000	0.300	19.409	29.800	24.000	19.000	16.000	5.920
00945	SULFATE DISSOLVE (MG/L AS SO4)	54	250.000	56.000	154.167	210.000	190.000	160.000	110.000	62.250
71846	NITR. NH4 AS NH4 MG/L AS NH4	320	0.000	--	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	320	0.000	--	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	320	0.000	--	--	--	--	--	--	--
00618	NITROGEN NITRATE (MG/L AS N)	320	1.700	0.000	0.027	0.000	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	320	7.600	0.000	0.132	0.995	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	320	0.000	--	--	--	--	--	--	--
00630	NO2 + NO3 TOTAL (MG/L AS N)	320	0.000	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	320	0.000	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	320	0.000	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC (MG/L AS N)	320	0.000	--	--	--	--	--	--	--
00600	NITROGEN TOTAL (MG/L AS N)	320	0.000	--	--	--	--	--	--	--
71887	NITROGEN, TOTAL MG/L AS NO3	320	0.000	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	320	1.200	0.000	0.016	0.000	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	320	0.000	--	--	--	--	--	--	--
00672	PHOSPHORUS HYDRO (MG/L AS P)	320	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	320	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	320	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	320	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	5	0.200	0.003	--	--	--	--	--	--
00621	NITROGEN NITRATE (MG/KG AS N)	320	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	320	41.000	0.000	0.766	4.780	0.000	0.000	0.000	0.000
00690	CARBON INORG + O (MG/L AS C)	320	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	320	0.000	--	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	320	0.000	--	--	--	--	--	--	--
70949	BIO CHL RATIO PL UNITS	320	0.000	--	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	35	12.000	--	*3.681	*8.000	*5.000	*3.000	*2.000	*0.962
01020	BORON DISSOLVED (UG/L AS B)	42	550.000	--	*125.263	*360.500	*160.000	*100.000	*60.000	*28.025
01046	IRON DISSOLVED (UG/L AS FE)	54	410.000	10.000	74.074	260.000	100.000	40.000	20.000	10.000
01049	LEAD DISSOLVED (UG/L AS PB)	36	3.000	--	*0.600	*3.000	*0.919	*0.344	*0.162	*0.055
01130	LITHIUM DISSOLVE (UG/L AS LI)	36	85.000	16.000	50.722	80.750	63.750	57.500	32.250	19.400

Supplement 41. Statistical summary of water-quality data for the Pembina River at Neche, N. Dak., gaging station 05100000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
01056	MANGANESE DISSOL (UG/L AS MN)	54	780.000	10.000	128.148	482.500	160.000	80.000	30.000	10.000
71890	MERCURY DISSOLVE UG/L AS HG	36	0.800	--	*0.153	*0.715	*0.200	*0.100	*0.042	*0.015
01060	MOLYBDENUM DISSO (UG/L AS MO)	34	13.000	1.000	4.353	11.500	5.250	4.000	2.000	1.000
01145	SELENIUM DISSOLV (UG/L AS SE)	36	4.000	--	*1.131	*3.150	*1.000	*1.000	*0.597	*0.325
01080	STRONTIUM DISSOL (UG/L AS SR)	36	680.000	130.000	372.778	671.500	450.000	370.000	265.000	155.500
07060	IRON 59 DISSOLVE (PCI/L)	2	5.000	1.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	320	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	320	0.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 42. Statistical summary of water-quality data for the Tongue River at Akra, N. Dak., gaging station 05101000, October 1971 through April 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	North Dakota data, October 1971 through April 2001									
00065	GAGE HEIGHT (FEET)	1	8.250	--	--	--	--	--	--	--
00060	DISCHARGE CFS	28	242.000	0.210	33.664	230.750	22.750	4.150	2.875	0.304
00061	DISCHARGE, INST. CFS	234	663.000	0.020	60.127	462.250	25.500	7.200	2.350	0.148
00080	COLOR PLATINUM-COBAL	7	30.000	15.000	20.714	30.000	25.000	20.000	15.000	15.000
00540	RESIDUE FIXED (MG/L)	262	0.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	262	255.000	0.000	1.118	0.579	0.420	0.000	0.000	0.000
70302	DISSOLVED SOLIDS TONS/DAY	262	349.000	0.000	13.424	83.680	1.345	0.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	78	515.000	172.000	356.897	482.000	407.250	360.000	315.750	221.600
70301	DISSOLVED SOLIDS MG/L	262	505.000	0.000	102.649	395.550	292.750	0.000	0.000	0.000
00076	TURBIDITY (NTU)	7	6.000	1.100	3.929	6.000	5.500	4.800	1.700	1.100
00025	AIR PRESSURE (MM OF HG)	1	739.000	--	--	--	--	--	--	--
00300	OXYGEN DISSOLVED (MG/L)	8	13.200	6.500	9.650	13.200	11.425	9.800	7.650	6.500
00301	OXYGEN DIS. PERC % OF SATURATIO	262	111.000	0.000	2.817	0.000	0.000	0.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	83	8.800	6.400	8.004	8.600	8.300	8.000	7.800	7.320
00403	PH, WH, LABORATO (STANDARD UNIT	26	8.600	6.600	7.835	8.565	8.100	7.950	7.600	6.775
00094	FIELD CONDUCTIVI US/CM @ 25C	18	779.000	264.000	543.444	779.000	613.000	555.500	473.750	264.000
90095	SPECIFIC CONDUCT MICROSIEMENS/C	19	654.000	305.000	556.421	654.000	636.000	584.000	484.000	305.000
00095	SPECIFIC CONDUCT US/CM @ 25C	245	1490.000	235.000	581.567	800.000	652.000	570.000	512.500	326.500
00020	AIR TEMPERATURE DEGREES C	127	34.000	-13.000	12.122	26.300	20.500	14.000	3.000	-5.800
00010	WATER TEMPERATUR (DEGREES C)	259	27.500	-0.500	10.225	24.000	18.500	8.500	2.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	262	0.000	--	--	--	--	--	--	--
00905	HARDNESS NC. DIS (MG/L AS CACO3	262	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	262	82.000	0.000	6.405	49.850	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	262	36.000	0.000	0.393	0.000	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	262	350.000	0.000	71.374	280.000	190.000	0.000	0.000	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	79	98.000	28.000	62.899	89.000	72.000	63.000	55.000	35.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	79	35.000	6.700	19.225	30.000	22.000	20.000	16.000	9.100
00935	POTASSIUM DISSOL (MG/L AS K)	79	12.000	2.800	5.999	8.100	6.800	6.000	5.100	3.900
00931	SODIUM ADSORPTIO (RATIO)	262	1.000	0.000	0.222	0.800	0.600	0.000	0.000	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	9	35.000	21.000	28.444	35.000	30.500	30.000	25.000	21.000
00930	SODIUM DISSOLVED (MG/L AS NA)	79	37.000	11.000	25.747	35.000	29.000	26.000	22.000	16.000
00932	SODIUM, PERCENT PERCENT	262	25.000	0.000	5.695	21.850	17.000	0.000	0.000	0.000
00435	ACIDITY TOTAL (MG/L AS CACO3	262	0.000	--	--	--	--	--	--	--
90410	ANC, TIT. 4.5, L MG/L AS CACO3	37	300.000	100.000	190.541	300.000	226.500	200.000	143.000	100.000
00410	ANC, FET, FIELD (MG/L AS CACO3	42	309.000	80.000	199.810	301.950	245.000	190.500	162.750	93.150

Supplement 42. Statistical summary of water-quality data for the Tongue River at Akra, N. Dak., gaging station 05101000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
95440	BICARBONATE MG/L AS CACO3	20	360.000	120.000	233.500	360.000	267.500	240.000	180.000	121.000
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	34	380.000	97.000	240.500	372.500	310.000	230.000	197.500	106.750
95445	CARBONATE MG/L AS CO3	20	9.000	0.000	0.750	8.850	0.000	0.000	0.000	0.000
00445	ANC CARB FET FIE (MG/L AS CO3)	34	6.000	0.000	0.176	1.500	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	79	40.000	2.200	10.284	14.000	12.000	9.700	7.800	5.600
00950	FLUORIDE DISSOLV (MG/L AS F)	79	92.000	0.100	1.438	0.500	0.300	0.300	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	67	25.000	0.600	13.157	24.000	17.000	14.000	11.000	2.180
00945	SULFATE DISSOLVE (MG/L AS SO4)	79	140.000	5.600	84.413	110.000	97.000	87.000	72.000	46.000
00608	NITROGEN AMMONIA (MG/L AS N)	8	0.330	0.020	0.155	0.330	0.270	0.145	0.050	0.020
00623	NITRO AMN & ORG (MG/L AS N)	8	1.300	0.300	0.914	1.300	1.175	0.925	0.760	0.300
00624	NITROGEN SUSPEND (MG/L AS N)	8	0.700	0.050	0.282	0.700	0.465	0.225	0.110	0.050
00625	NITROGEN AMM+ORG (MG/L AS N)	8	1.800	0.820	1.196	1.800	1.400	1.200	0.873	0.820
71846	NITR. NH4 AS NH4 MG/L AS NH4	262	0.430	0.000	0.006	0.000	0.000	0.000	0.000	0.000
00610	NITROGEN AMMONIA (MG/L AS N)	8	0.360	0.030	0.186	0.360	0.335	0.175	0.058	0.030
71845	NITROGEN, NH4, T MG/L AS NH4	262	0.440	0.000	0.007	0.000	0.000	0.000	0.000	0.000
00602	NITROGEN DISSOLV (MG/L AS N)	262	1.500	0.000	0.031	0.000	0.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	262	2.300	0.000	0.065	0.544	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	262	10.000	0.000	0.329	2.500	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	262	0.300	0.000	0.003	0.000	0.000	0.000	0.000	0.000
00631	NO2 + NO3 DISSOL (MG/L AS N)	8	0.340	--	*0.117	*0.340	*0.257	*0.075	*0.006	*0.002
00630	NO2 + NO3 TOTAL (MG/L AS N)	260	0.400	0.000	0.004	0.000	0.000	0.000	0.000	0.000
71856	NITR. NO2 AS NO2 MG/L AS NO2	262	0.200	0.000	0.002	0.000	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	8	0.060	--	*0.018	*0.060	*0.040	*0.010	*0.002	*0.001
00615	NITROGEN,NITRITE MG/L AS N	8	0.060	--	*0.025	*0.060	*0.052	*0.015	*0.006	*0.002
00607	NITROGEN ORGANIC (MG/L AS N)	262	1.000	0.000	0.023	0.000	0.000	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	262	1.700	0.000	0.031	0.000	0.000	0.000	0.000	0.000
00600	NITROGEN TOTAL (MG/L AS N)	262	2.000	0.000	0.040	0.000	0.000	0.000	0.000	0.000
71887	NITROGEN, TOTAL MG/L AS NO3	262	8.600	0.000	0.179	0.000	0.000	0.000	0.000	0.000
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	262	0.980	0.000	0.025	0.206	0.000	0.000	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	262	0.490	0.000	0.006	0.000	0.000	0.000	0.000	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	8	0.200	0.010	0.075	0.200	0.088	0.070	0.030	0.010
00678	PHOSPHORUS HYDRO (MG/L AS P)	6	0.240	0.040	0.107	0.240	0.150	0.095	0.047	0.040
00677	PHOSPHORUS HYDRO (MG/L AS P)	6	0.220	--	*0.074	*0.220	*0.108	*0.050	*0.033	*0.014
00672	PHOSPHORUS HYDRO (MG/L AS P)	262	0.150	0.000	0.001	0.000	0.000	0.000	0.000	0.000
00669	PHOSPHORUS HYDRO (MG/L AS P)	262	0.160	0.000	0.001	0.000	0.000	0.000	0.000	0.000

Supplement 42. Statistical summary of water-quality data for the Tongue River at Akra, N. Dak., gaging station 05101000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, October 1971 throngh April 2001--Continued								
00673	PHOSPHORUS ORG. (MG/L AS P)	262	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
00670	PHOSPHORUS ORG.T (MG/L AS P)	262	0.190	0.000	0.001	0.000	0.000	0.000	0.000	0.000
00671	PHOSPHORUS ORTHO (MG/L AS P)	20	0.160	--	*0.061	*0.158	*0.080	*0.060	*0.032	*0.016
70507	PHOS ORTHO TOT A MG/L AS P	8	0.160	0.010	0.062	0.160	0.080	0.050	0.032	0.010
00665	PHOSPHORUS TOTAL (MG/L AS P)	8	0.430	0.040	0.144	0.430	0.170	0.110	0.065	0.040
71886	PHOSPHORUS TOT P MG/L AS PO4	8	1.300	0.120	0.439	1.300	0.520	0.340	0.198	0.120
00621	NITROGEN NITRATE (MG/KG AS N)	262	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	262	115.000	0.000	2.189	8.085	1.350	0.000	0.000	0.000
00681	CARBON ORGANIC D (MG/L AS C)	8	150.000	8.000	31.450	150.000	23.000	16.000	8.500	8.000
00689	CARBON ORGANIC P (MG/L AS C)	8	1.100	0.300	0.625	1.100	0.800	0.650	0.325	0.300
00690	CARBON INORG + O (MG/L AS C)	262	0.000	--	--	--	--	--	--	--
00687	CARBON ORG. BOT. (GM/KG AS C)	262	0.000	--	--	--	--	--	--	--
00572	BIOMASS, PERIPHY (G/SQ M)	5	17.700	0.709	--	--	--	--	--	--
00573	BIOMASS PERIPHYT (G/SQ M)	5	22.400	0.945	--	--	--	--	--	--
70950	BIO CHL RATIO PE UNITS	262	215.000	0.000	3.046	0.000	0.000	0.000	0.000	0.000
70949	BIO CHL RATIO PL UNITS	262	0.000	--	--	--	--	--	--	--
60050	PHYTO TYPE-I CELLS/ML	8	260000.000	900.000	57012.500	260000.000	131250.000	3550.000	1425.000	900.000
31501	TOT COLI,MENDO M COLS./100 ML	8	28000.000	64.000	7602.125	28000.000	13250.000	4650.000	154.750	64.000
31625	COLIFORM FECAL 0 COLS./100 ML	8	720.000	--	*110.309	*720.000	*71.250	*16.000	*6.250	*0.473
31673	FECAL STREP,KF M COLS./100 ML	8	580.000	3.000	144.625	580.000	215.000	65.500	19.250	3.000
70957	CHL-A PR CH-FL M MG/M2	5	31.600	1.100	--	--	--	--	--	--
70958	CHL-B PR CH-FL M MG/M2	5	9.100	0.600	--	--	--	--	--	--
01000	ARSENIC DISSOLVE (UG/L AS AS)	36	12.000	1.000	4.583	11.150	7.000	3.000	2.000	1.000
01020	BORON DISSOLVED (UG/L AS B)	67	350.000	--	*88.564	*230.000	*100.000	*80.000	*33.371	*18.497
01046	IRON DISSOLVED (UG/L AS FE)	78	1700.000	--	*76.352	*243.000	*80.000	*30.000	*20.000	*4.634
01044	IRON SUSPENDED (UG/L AS FE)	6	300.000	130.000	228.333	300.000	277.500	230.000	190.000	130.000
01045	IRON TOTAL (UG/L AS FE)	7	330.000	140.000	240.000	330.000	290.000	220.000	210.000	140.000
01049	LEAD DISSOLVED (UG/L AS PB)	36	6.000	--	*0.806	*2.600	*1.000	*0.539	*0.302	*0.130
01130	LITHIUM DISSOLVE (UG/L AS LI)	36	45.000	10.000	29.111	40.750	35.750	30.000	20.000	10.850
01056	MANGANESE DISSOL (UG/L AS MN)	77	11000.000	7.000	756.325	2200.000	700.000	380.000	215.000	57.000
01054	MANGANESE SUSPEN (UG/L AS MN)	7	180.000	--	*90.345	*180.000	*140.000	*100.000	*31.395	*21.020
01055	MANGANESE TOTAL (UG/L AS MN)	7	1800.000	250.000	902.857	1800.000	1400.000	720.000	390.000	250.000
71890	MERCURY DISSOLVE UG/L AS HG	36	2.400	--	*0.177	*1.040	*0.100	*0.100	*0.020	*0.005
01060	MOLYBDENUM DISSO (UG/L AS MO)	36	5.000	--	*1.948	*4.150	*3.000	*2.000	*1.000	*0.548
01145	SELENIUM DISSOLV (UG/L AS SE)	36	2.000	--	*0.865	*2.000	*1.000	*0.754	*0.544	*0.323

Supplement 42. Statistical summary of water-quality data for the Tongue River at Akra, N. Dak., gaging station 05101000, October 1971 through April 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, October 1971 through April 2001--Continued							
01080	STRONTIUM DISSOL (UG/L AS SR)	36	460.000	82.000	283.389	443.000	340.000	290.000	242.500	105.800
07060	IRON 59 DISSOLVE (PCI/L)	2	3.000	1.000	--	--	--	--	--	--
80156	SUS-SED DISCH + T/DAY	262	0.000	--	--	--	--	--	--	--
80155	DISCHARGE,SUSP.S T/DAY	262	0.000	--	--	--	--	--	--	--

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Supplement 43. Statistical summary of water-quality data for the Red River of the North at Emerson, Manitoba, gaging station 05102500, July 1974 through July 2001

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, July 1974 through July 2001							
00065	GAGE HEIGHT (FEET)	5	18.680	5.380	--	--	--	--	--	--
00060	DISCHARGE CFS	67	62800.000	229.000	8256.940	30479.996	12300.000	3330.000	1410.000	536.600
00061	DISCHARGE, INST. CFS	105	62800.000	170.000	4989.076	25500.000	3680.000	1600.000	915.500	300.200
00080	COLOR PLATINUM-COBAL	2	50.000	33.000	--	--	--	--	--	--
00540	RESIDUE FIXED (MG/L)	182	0.000	--	--	--	--	--	--	--
00515	RESIDUE DISSOLVE (MG/L)	1	394.000	--	--	--	--	--	--	--
70303	RESIDUE DIS TON/ T/AC-FT	182	1.500	0.000	0.489	0.949	0.660	0.560	0.387	0.000
70302	DISSOLVED SOLIDS TONS/DAY	182	46100.000	0.000	3839.670	20685.000	3562.500	1375.000	0.000	0.000
70300	RESIDUE DIS 180C MG/L	144	1100.000	245.000	457.556	729.750	503.750	438.000	373.500	287.500
70301	DISSOLVED SOLIDS MG/L	182	1060.000	0.000	341.962	683.400	459.750	380.500	263.250	0.000
00077	TRANSPARENCY (IN (INCHES)	1	--	--	--	--	--	--	--	--
00070	TURBIDITY (JCU)	5	140.000	9.000	--	--	--	--	--	--
00076	TURBIDITY (NTU)	108	270.000	1.000	53.711	160.000	86.250	39.000	6.150	3.445
61028	TURBIDITY, FIELD (NTU)	1	440.000	--	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	116	788.000	665.000	746.543	780.000	753.750	744.500	738.000	729.550
00300	OXYGEN DISSOLVED (MG/L)	151	18.200	1.300	9.639	14.480	11.400	9.600	7.800	5.360
00301	OXYGEN DIS. PERC % OF SATURATIO	182	130.000	0.000	61.901	103.850	92.000	82.000	0.000	0.000
00400	PH, WH, FIELD (STANDARD UNIT	158	8.900	7.200	8.077	8.700	8.400	8.100	7.800	7.500
00403	PH, WH, LABORATO (STANDARD UNIT	104	8.600	7.300	8.037	8.500	8.200	8.000	7.800	7.700
90095	SPECIFIC CONDUCT MICROSIEMENS/C	109	1780.000	413.000	751.569	1180.000	846.500	706.000	613.000	464.000
00095	SPECIFIC CONDUCT US/CM @ 25C	171	1810.000	76.000	721.918	1184.000	811.000	690.000	585.000	410.000
00020	AIR TEMPERATURE DEGREES C	119	34.000	-22.000	9.373	29.000	19.500	10.000	0.500	-15.000
00010	WATER TEMPERATUR (DEGREES C)	172	29.000	0.000	9.963	25.500	18.500	9.000	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	182	180.000	0.000	22.313	110.000	30.250	0.000	0.000	0.000
00905	HARDNESS NC. DIS (MG/L AS CACO3	182	0.000	--	--	--	--	--	--	--
00902	NONCARBONATE HAR (MG/L AS CACO3	182	150.000	0.000	14.258	79.550	0.000	0.000	0.000	0.000
00903	NONCARBONATE HAR (MG/L AS CACO3	182	140.000	0.000	7.280	69.100	0.000	0.000	0.000	0.000
00900	HARDNESS TOTAL (MG/L AS CAO3)	182	500.000	0.000	222.363	370.000	310.000	270.000	187.500	0.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	143	110.000	36.000	63.649	82.800	70.000	63.000	57.000	46.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	143	54.000	16.000	30.136	43.000	34.000	30.000	26.000	18.000
00935	POTASSIUM DISSOL (MG/L AS K)	143	17.000	3.800	7.062	10.980	8.300	6.700	5.500	4.300
00931	SODIUM ADSORPTIO (RATIO)	182	4.000	0.000	0.881	2.000	1.000	0.800	0.400	0.000
00933	SODIUM+POTASSIUM (MG/L AS NA)	29	200.000	9.200	61.007	190.000	81.000	41.000	32.000	17.100
00930	SODIUM DISSOLVED (MG/L AS NA)	143	190.000	7.500	44.297	110.000	50.000	34.000	28.000	14.200
00932	SODIUM, PERCENT PERCENT	182	48.000	0.000	18.280	39.700	25.000	19.000	13.000	0.000

Supplement 43. Statistical summary of water-quality data for the Red River of the North at Emerson, Manitoba, gaging station 05102500, July 1974 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		North Dakota data, July 1974 through July 2001--Continued								
00435	ACIDITY TOTAL (MG/L AS CACO3	182	0.000	--	--	--	--	--	--	--
99430	ANC, CARB, IT, F MG/L	6	253.000	27.000	192.500	253.000	250.750	222.000	142.500	27.000
90410	ANC, TIT. 4.5, L MG/L AS CACO3	106	360.000	124.000	218.349	308.950	242.500	217.000	188.500	144.000
00418	ALKALINITY,DIS,F (MG/L AS CACO3	25	324.000	151.000	225.920	323.400	266.000	223.000	180.000	153.100
39086	ALKALINITY,DIS,I (MG/L AS CACO3	50	326.000	112.000	216.100	315.200	252.750	214.500	180.000	128.550
00410	ANC, FET, FIELD (MG/L AS CACO3	61	369.000	19.000	210.344	288.000	240.000	210.000	180.000	121.000
00417	ANC, FET, LAB (MG/L AS CACO3	1	235.000	--	--	--	--	--	--	--
00419	ANC, IT, FIELD (MG/L AS CACO3	17	370.000	--	*211.044	*370.000	*256.500	*226.000	*186.000	*19.000
99440	BICARBONATE MG/L AS HCO3	6	308.000	33.000	234.833	308.000	305.750	271.000	174.000	33.000
95440	BICARBONATE MG/L AS CACO3	1	200.000	--	--	--	--	--	--	--
00453	BICARBONATE,DIS, (MG/L AS HCO3)	50	398.000	136.000	258.200	373.250	308.000	254.500	219.250	156.100
00440	ANC HCO3 FET FIE (MG/L AS HCO3)	9	350.000	34.000	246.000	350.000	320.000	260.000	190.000	34.000
00450	ANC BICARB IT FI (MG/L AS HCO3)	17	416.000	166.000	259.000	416.000	303.000	240.000	217.000	166.000
99445	CARBONATE MG/L AS CO3	5	0.000	--	--	--	--	--	--	--
95445	CARBONATE MG/L AS CO3	1	0.000	--	--	--	--	--	--	--
00452	CARBONATE,DIS,IT (MG/L AS CO3)	50	22.000	0.000	2.680	17.000	1.250	0.000	0.000	0.000
00445	ANC CARB FET FIE (MG/L AS CO3)	6	0.000	--	--	--	--	--	--	--
00447	ANC CARB IT FIEL (MG/L AS CO3)	16	48.000	0.000	10.562	48.000	17.000	8.500	0.000	0.000
71830	HYDROXIDE,WH,FET (MG/L AS OH)	1	0.000	--	--	--	--	--	--	--
71870	BROMIDE DISSOLVE MG/L AS BR	1	0.090	--	--	--	--	--	--	--
00940	CHLORIDE DISSOLV (MG/L AS CL)	144	240.000	9.800	50.387	147.500	61.750	34.500	24.250	12.250
00950	FLUORIDE DISSOLV (MG/L AS F)	143	0.600	0.100	0.215	0.300	0.200	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	142	38.000	2.500	12.746	20.000	15.000	13.000	9.475	5.915
00945	SULFATE DISSOLVE (MG/L AS SO4)	144	230.000	6.000	97.572	160.000	120.000	93.500	69.250	44.500
00608	NITROGEN AMMONIA (MG/L AS N)	123	2.300	0.010	0.129	0.332	0.160	0.080	0.030	0.010
00623	NITRO AMN & ORG (MG/L AS N)	76	2.800	0.030	0.982	1.600	1.175	0.970	0.723	0.506
00624	NITROGEN SUSPEND (MG/L AS N)	43	11.000	--	*0.566	*0.954	*0.500	*0.300	*0.100	*0.030
00625	NITROGEN AMM+ORG (MG/L AS N)	143	12.000	0.200	1.320	2.080	1.500	1.200	0.910	0.760
71846	NITR. NH4 AS NH4 MG/L AS NH4	182	3.000	0.000	0.112	0.367	0.150	0.040	0.000	0.000
00610	NITROGEN AMMONIA (MG/L AS N)	83	2.300	0.010	0.136	0.330	0.160	0.070	0.030	0.010
71845	NITROGEN, NH4, T MG/L AS NH4	182	2.800	0.000	0.078	0.320	0.082	0.000	0.000	0.000
00602	NITROGEN DISSOLV (MG/L AS N)	182	7.300	0.000	0.551	2.470	1.000	0.000	0.000	0.000
00618	NITROGEN NITRATE (MG/L AS N)	182	5.560	0.000	0.207	1.133	0.000	0.000	0.000	0.000
71851	NITR. NO3 AS NO3 MG/L AS NO3	182	24.600	0.000	0.916	5.012	0.000	0.000	0.000	0.000
00620	NITROGEN NITRATE MG/L AS N	182	0.860	0.000	0.018	0.000	0.000	0.000	0.000	0.000

Supplement 43. Statistical summary of water-quality data for the Red River of the North at Emerson, Manitoba, gaging station 05102500, July 1974 through July 2001--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
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			North Dakota data, July 1974 through July 2001--Continued							
00631	NO2 + NO3 DISSOL (MG/L AS N)	125	5.800	--	*0.578	*2.980	*0.664	*0.330	*0.130	*0.036
00630	NO2 + NO3 TOTAL (MG/L AS N)	177	1.800	0.000	0.114	0.800	0.100	0.000	0.000	0.000
71856	NITR. NO2 AS NO2 MG/L AS NO2	182	0.789	0.000	0.031	0.187	0.000	0.000	0.000	0.000
00613	NITROGEN,NITRITE MG/L AS N	76	0.240	--	*0.024	*0.152	*0.020	*0.005	*0.002	*0.000
00615	NITROGEN,NITRITE MG/L AS N	13	0.210	--	*0.039	*0.210	*0.030	*0.020	*0.004	*0.001
00607	NITROGEN ORGANIC (MG/L AS N)	182	1.700	0.000	0.260	1.185	0.620	0.000	0.000	0.000
00605	NITROGEN ORGANIC (MG/L AS N)	182	12.000	0.000	0.924	1.785	1.300	0.925	0.630	0.000
00600	NITROGEN TOTAL (MG/L AS N)	182	12.000	0.000	1.353	3.985	1.800	1.400	0.000	0.000
71887	NITROGEN, TOTAL MG/L AS NO3	182	53.000	0.000	2.385	8.185	5.825	0.000	0.000	0.000
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	182	1.070	0.000	0.181	0.670	0.307	0.122	0.000	0.000
00650	PHOSPHATE TOTAL (MG/L AS PO4)	182	1.320	0.000	0.057	0.486	0.000	0.000	0.000	0.000
00666	PHOSPHORUS DISS. (MG/L AS P)	142	0.750	0.010	0.128	0.290	0.170	0.110	0.060	0.030
00672	PHOSPHORUS HYDRO (MG/L AS P)	182	0.000	--	--	--	--	--	--	--
00669	PHOSPHORUS HYDRO (MG/L AS P)	182	0.000	--	--	--	--	--	--	--
00673	PHOSPHORUS ORG. (MG/L AS P)	182	0.000	--	--	--	--	--	--	--
00670	PHOSPHORUS ORG.T (MG/L AS P)	182	0.000	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO (MG/L AS P)	100	0.350	0.010	0.108	0.269	0.140	0.095	0.050	0.030
70507	PHOS ORTHO TOT A MG/L AS P	14	0.430	0.050	0.182	0.430	0.273	0.150	0.100	0.050
00665	PHOSPHORUS TOTAL (MG/L AS P)	145	0.880	0.020	0.218	0.447	0.295	0.190	0.130	0.060
71886	PHOSPHORUS TOT P MG/L AS PO4	46	2.700	0.060	0.712	1.365	0.920	0.610	0.453	0.131
00621	NITROGEN NITRATE (MG/KG AS N)	182	0.000	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	182	24.000	0.000	3.411	11.850	4.725	2.000	0.650	0.000
00681	CARBON ORGANIC D (MG/L AS C)	52	41.000	8.700	13.142	24.450	14.000	12.000	11.000	8.895
00689	CARBON ORGANIC P (MG/L AS C)	45	9.600	0.300	1.822	7.190	2.250	1.300	0.800	0.400
00680	CARBON ORGANIC T (MG/L AS C)	16	35.000	7.400	16.837	35.000	18.500	15.500	13.000	7.400
00690	CARBON INORG + O (MG/L AS C)	182	20.000	0.000	0.110	0.000	0.000	0.000	0.000	0.000
00687	CARBON ORG. BOT. (GM/KG AS C)	182	0.000	--	--	--	--	--	--	--
00572	BIOMASS, PERIPHY (G/SQ M)	10	10.600	0.000	2.744	10.600	5.665	0.630	0.120	0.000
00573	BIOMASS PERIPHYT (G/SQ M)	10	12.000	0.000	3.083	12.000	6.162	0.748	0.200	0.000
70950	BIO CHL RATIO PE UNITS	182	449.000	0.000	9.505	0.000	0.000	0.000	0.000	0.000
70949	BIO CHL RATIO PL UNITS	182	0.000	--	--	--	--	--	--	--
60050	PHYTO TYPE-I CELLS/ML	25	71000.000	0.000	10434.800	57200.035	15000.000	6300.000	2300.000	141.000
31501	TOT COLI,MENDO M COLS./100 ML	1	100.000	--	--	--	--	--	--	--
31625	COLIFORM FECAL 0 COLS./100 ML	101	1000.000	--	*68.230	*288.000	*54.500	*18.000	*7.000	*1.306
31673	FECAL STREP,KF M COLS./100 ML	100	3800.000	2.000	293.140	1795.000	215.000	65.000	22.250	7.050

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			North Dakota data, July 1974 through July 2001--Continued							
70957	CHL-A PR CH-FL M MG/M2	10	8.500	0.000	2.180	8.500	5.200	0.350	0.075	0.000
32230	CHLORO-A-PHY-SUC UG/L	1	20.000	--	--	--	--	--	--	--
70958	CHL-B PR CH-FL M MG/M2	10	0.500	0.000	0.070	0.500	0.100	0.000	0.000	0.000
01106	ALUMINUM DISSOLV (UG/L AS AL)	42	420.000	--	*33.074	*97.000	*30.000	*20.000	*7.111	*2.347
01000	ARSENIC DISSOLVE (UG/L AS AS)	52	11.000	--	*3.330	*6.000	*4.000	*3.000	*2.000	*1.000
01001	ARSENIC SUSPENDE (UG/L AS AS)	16	5.000	--	*1.404	*5.000	*2.000	*1.000	*0.602	*0.309
01002	ARSENIC TOTAL (UG/L AS AS)	20	9.000	1.000	4.200	8.900	5.750	4.000	2.250	1.050
01005	BARIUM DISSOLVED (UG/L AS BA)	63	240.000	--	*82.033	*208.000	*90.000	*68.000	*57.000	*42.370
01006	BARIUM SUSPENDED (UG/L AS BA)	18	--	--	--	--	--	--	--	--
01007	BARIUM TOTAL (UG/L AS BA)	20	300.000	--	*110.190	*295.000	*122.500	*100.000	*60.942	*34.604
01010	BERYLLIUM DISSOL (UG/L AS BE)	32	--	--	--	--	--	--	--	--
01020	BORON DISSOLVED (UG/L AS B)	2	160.000	130.000	--	--	--	--	--	--
01025	CADMIUM DISSOLVE (UG/L AS CD)	52	--	--	--	--	--	--	--	--
01026	CADMIUM SUSPENDE (UG/L AS CD)	12	--	--	--	--	--	--	--	--
01027	CADMIUM TOTAL (UG/L AS CD)	20	4.000	--	*1.071	*3.900	*1.071	*1.000	*0.593	*0.391
01030	CHROMIUM DISSOLV (UG/L AS CR)	52	10.000	--	*1.332	*6.100	*1.899	*0.722	*0.349	*0.121
01031	CHROMIUM SUSPEND (UG/L AS CR)	17	30.000	--	*9.777	*30.000	*11.007	*7.918	*4.545	*2.828
01034	CHROMIUM TOTAL (UG/L AS CR)	20	30.000	--	*12.233	*29.500	*14.328	*10.000	*8.714	*5.434
01035	COBALT DISSOLVED (UG/L AS CO)	63	--	--	--	--	--	--	--	--
01036	COBALT SUSPENDED (UG/L AS CO)	14	5.000	--	*0.993	*5.000	*1.250	*0.348	*0.113	*0.028
01037	COBALT TOTAL (UG/L AS CO)	21	5.000	--	*1.970	*4.900	*2.500	*2.000	*1.000	*0.795
01040	COPPER DISSOLVED (UG/L AS CU)	52	17.000	--	*4.978	*14.050	*6.750	*4.000	*2.250	*1.000
01041	COPPER SUSPENDED (UG/L AS CU)	20	300.000	1.000	23.600	286.050	14.250	9.000	5.000	1.050
01042	COPPER TOTAL (UG/L AS CU)	21	310.000	3.000	27.810	281.800	19.500	13.000	10.000	3.200
00723	CYANIDE DISSOLVE (MG/L AS CN)	2	--	--	--	--	--	--	--	--
00720	CYANIDE TOTAL (MG/L AS CN)	3	--	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	89	640.000	--	*34.907	*105.000	*30.000	*20.000	*10.000	*3.311
01044	IRON SUSPENDED (UG/L AS FE)	17	12000.000	210.000	3355.294	12000.000	4900.000	2500.000	880.000	210.000
01045	IRON TOTAL (UG/L AS FE)	20	12000.000	240.000	2988.000	11750.004	4600.000	2100.000	772.500	240.500
01049	LEAD DISSOLVED (UG/L AS PB)	49	11.000	--	*1.620	*6.500	*1.918	*1.000	*0.449	*0.189
01050	LEAD SUSPENDED (UG/L AS PB)	16	66.000	--	*9.842	*66.000	*8.750	*6.500	*2.500	*0.470
01051	LEAD TOTAL (UG/L AS PB)	17	66.000	--	*10.345	*66.000	*10.000	*8.000	*3.500	*0.857
01130	LITHIUM DISSOLVE (UG/L AS LI)	43	57.000	16.000	35.140	52.200	42.000	34.000	28.000	21.200
01056	MANGANESE DISSOL (UG/L AS MN)	92	85.000	--	*16.272	*48.050	*25.750	*10.000	*4.000	*1.000
01054	MANGANESE SUSPEN (UG/L AS MN)	20	730.000	--	*190.099	*719.500	*265.000	*140.000	*52.500	*12.388

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01055	MANGANESE TOTAL (UG/L AS MN)	20	740.000	30.000	203.000	729.500	277.500	140.000	72.500	31.500
71890	MERCURY DISSOLVE UG/L AS HG	50	0.500	--	*0.096	*0.500	*0.100	*0.048	*0.021	*0.006
71895	MERCURY SUSPENDE UG/L AS HG	19	1.400	--	*0.204	*1.400	*0.200	*0.100	*0.030	*0.007
71900	MERCURY, TOT.REC UG/L AS HG	22	1.400	--	*0.234	*1.325	*0.225	*0.100	*0.087	*0.017
01060	MOLYBDENUM DISSO (UG/L AS MO)	43	--	--	--	--	--	--	--	--
01065	NICKEL DISSOLVED (UG/L AS NI)	56	12.000	--	*3.643	*8.450	*5.000	*3.000	*2.000	*0.974
01066	NICKEL SUSPENDED (UG/L AS NI)	13	14.000	1.000	6.462	14.000	11.500	6.000	1.500	1.000
01067	NICKEL TOTAL (UG/L AS NI)	14	19.000	4.000	9.714	19.000	13.250	7.500	5.750	4.000
01145	SELENIUM DISSOLV (UG/L AS SE)	64	1.000	--	*0.706	*1.000	*0.811	*0.681	*0.570	*0.449
01146	SELENIUM SUSPEND (UG/L AS SE)	17	--	--	--	--	--	--	--	--
01147	SELENIUM TOTAL (UG/L AS SE)	20	1.000	--	*1.000	*1.000	*1.000	*1.000	*1.000	*1.000
01075	SILVER DISSOLVED (UG/L AS AG)	63	--	--	--	--	--	--	--	--
01076	SILVER SUSPENDED (UG/L AS AG)	17	--	--	--	--	--	--	--	--
01077	SILVER TOTAL (UG/L AS AG)	23	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	43	390.000	6.000	254.093	380.000	300.000	260.000	220.000	136.000
01087	VANADIUM TOTAL (UG/L AS V)	1	20.000	--	--	--	--	--	--	--
01085	VANADIUM DISSOLV (UG/L AS V)	43	--	--	--	--	--	--	--	--
01090	ZINC DISSOLVED (UG/L AS ZN)	52	60.000	--	*16.208	*48.550	*21.750	*12.000	*6.030	*2.670
01091	ZINC SUSPENDED (UG/L AS ZN)	18	240.000	--	*37.878	*240.000	*40.000	*15.000	*8.624	*1.451
01092	ZINC TOTAL (UG/L AS ZN)	21	250.000	10.000	49.190	236.000	50.000	30.000	20.000	10.000
82183	2,4-DP TOTAL UG/L	2	--	--	--	--	--	--	--	--
39741	2,4,5-T BTM UG/KG	1	--	--	--	--	--	--	--	--
39740	2,4,5-T TOTAL(WA UG/L	7	--	--	--	--	--	--	--	--
39730	2,4-D TOTAL (WA UG/L	7	--	--	--	--	--	--	--	--
82660	26DIETHYLANILINE (UG/L)	4	--	--	--	--	--	--	--	--
49260	ACETOCHLOR FLTRD (UG/L)	4	--	--	--	--	--	--	--	--
46342	ALACHLOR, DISS, UG/L	4	--	--	--	--	--	--	--	--
39330	ALDRIN TOTAL (WA UG/L	15	--	--	--	--	--	--	--	--
34253	ALPHA BHC UG/L	4	--	--	--	--	--	--	--	--
39504	PCB,54%CL, T (A1 UG/L	1	0.100	--	--	--	--	--	--	--
39632	ATRAZINE, DISS, UG/L	4	0.038	0.021	--	--	--	--	--	--
39630	ATRAZINE UNF REC (UG/L)	3	--	--	--	--	--	--	--	--
82673	BENFLURALIN FIL (UG/L)	4	--	--	--	--	--	--	--	--
04028	BUTYLATE DISS RE (UG/L)	4	--	--	--	--	--	--	--	--
82680	CARBARYL FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--

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82674	CARBOFURAN FIL . (UG/L)	4	--	--	--	--	--	--	--	--
39786	CARBOPHENOTHION UG/L	14	--	--	--	--	--	--	--	--
39350	CHLORDANE TOT(WA UG/L	15	--	--	--	--	--	--	--	--
38933	CHLORPYRIFOS, DI UG/L	4	--	--	--	--	--	--	--	--
04041	CYANAZINE DISS R (UG/L)	4	--	--	--	--	--	--	--	--
82682	DCPA FIL 0.7 REC (UG/L)	4	--	--	--	--	--	--	--	--
04040	DEETHYL ATRAZINE (UG/L)	4	0.020	0.010	--	--	--	--	--	--
39572	DIAZINON DISSOLV UG/L	4	--	--	--	--	--	--	--	--
39570	DIAZINON TOT (WA UG/L	14	--	--	--	--	--	--	--	--
39381	DIELDRIN DISSOLV UG/L	4	--	--	--	--	--	--	--	--
39380	DIELDRIN TOT (WA UG/L	15	--	--	--	--	--	--	--	--
82677	DISULFOTON FIL . (UG/L)	4	--	--	--	--	--	--	--	--
39388	ENDOSULFAN I TOT UG/L	4	--	--	--	--	--	--	--	--
39390	ENDRIN UNF REC (UG/L)	15	--	--	--	--	--	--	--	--
82668	EPTC FIL 0.7 REC (UG/L)	4	--	--	--	--	--	--	--	--
82663	ETHALFLURALIN FI (UG/L)	4	--	--	--	--	--	--	--	--
39398	ETHION TOTAL (WA UG/L	14	--	--	--	--	--	--	--	--
82672	ETHOPROP FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
04095	FONOFOX DISS REC (UG/L)	4	--	--	--	--	--	--	--	--
39420	HEPT EPOX TOT(WA UG/L	15	--	--	--	--	--	--	--	--
39410	HEPTACHLOR T.(WA UG/L	15	--	--	--	--	--	--	--	--
39341	LINDANE DISSOLVE UG/L	4	--	--	--	--	--	--	--	--
39340	LINDANE TOTAL(WA UG/L	15	--	--	--	--	--	--	--	--
82666	LINURON FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
39532	MALATHION DISSOL UG/L	4	--	--	--	--	--	--	--	--
39530	MALATHION TOT(WA UG/L	14	--	--	--	--	--	--	--	--
39480	METHOXYCHLOR T.(UG/L	15	--	--	--	--	--	--	--	--
82686	METHYL AZINPHOS (UG/L)	4	--	--	--	--	--	--	--	--
39600	MET PARTH TOT(WA UG/L	14	--	--	--	--	--	--	--	--
82667	METHYL PARATHION (UG/L)	4	--	--	--	--	--	--	--	--
39790	MET TRITH TOT(WA UG/L	14	--	--	--	--	--	--	--	--
39415	METOLACHLOR,WAT. UG/L	4	0.043	0.003	--	--	--	--	--	--
82630	METRIBUZIN,WAT.D UG/L	4	--	--	--	--	--	--	--	--
39755	MIREX TOTAL UG/L	3	--	--	--	--	--	--	--	--
82671	MOLINATE FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--

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82684	NAPROPAMIDE FIL (UG/L)	4	--	--	--	--	--	--	--	--
34653	P,P' DDE DISSOLV (UG/L)	4	--	--	--	--	--	--	--	--
39360	P,P'-DDD UNFLT R UG/L	15	--	--	--	--	--	--	--	--
39365	P,P'-DDE, TOTAL UG/L	14	--	--	--	--	--	--	--	--
39370	P,P'-DDT UNFILT UG/L	15	--	--	--	--	--	--	--	--
39542	PARATHION DISSOL UG/L	4	--	--	--	--	--	--	--	--
39540	PARATHION TOT(WA UG/L	14	--	--	--	--	--	--	--	--
39516	PCB TOTAL (WA UG/L	13	--	--	--	--	--	--	--	--
39250	PCN TOTAL (WA UG/L	3	--	--	--	--	--	--	--	--
82669	PEBULATE FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
82683	PENDIMETHALIN F. (UG/L)	4	--	--	--	--	--	--	--	--
82687	PERMETHRIN FIL . (UG/L)	4	--	--	--	--	--	--	--	--
81886	PERTHANE, BOT.MA UG/KG	2	--	--	--	--	--	--	--	--
39034	PERTHANE TOTAL UG/L	2	--	--	--	--	--	--	--	--
82664	PHORATE FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
04037	PROMETON DISS RE (UG/L)	4	--	--	--	--	--	--	--	--
82676	PRONAMIDE FIL .7 (UG/L)	4	--	--	--	--	--	--	--	--
04024	PROPACHLOR DISS (UG/L)	4	--	--	--	--	--	--	--	--
82679	PROPANIL FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
82685	PROPARGITE FIL . (UG/L)	4	--	--	--	--	--	--	--	--
39762	SILVEX DISSOLVED UG/L	1	0.000	--	--	--	--	--	--	--
39760	SILVEX TOTAL (WA UG/L	6	--	--	--	--	--	--	--	--
39025	SIMAZINE TOTAL-C UG/L	3	--	--	--	--	--	--	--	--
04035	SIMAZINE DISS RE (UG/L)	4	--	--	--	--	--	--	--	--
82670	TEBUTHIURON FIL (UG/L)	4	--	--	--	--	--	--	--	--
82665	TERBACIL FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
82675	TERBUFOS FIL 0.7 (UG/L)	4	--	--	--	--	--	--	--	--
82681	THIOBENCARB FIL (UG/L)	4	--	--	--	--	--	--	--	--
39400	TOXAPHENE TOT(WA UG/L	14	--	--	--	--	--	--	--	--
82678	TRIALLATE FIL .7 (UG/L)	4	--	--	--	--	--	--	--	--
82661	TRIFLURALIN FIL (UG/L)	4	--	--	--	--	--	--	--	--
39731	2,4-D BTM UG/KG	1	--	--	--	--	--	--	--	--
39333	ALDRIN BTM U UG/KG	5	--	--	--	--	--	--	--	--
39351	CHLORDANE BTM U UG/KG	5	--	--	--	--	--	--	--	--
39571	DIAZINON BTM U UG/KG	3	--	--	--	--	--	--	--	--

Supplement 43. Statistical summary of water-quality data for the Red River of the North at Emerson, Manitoba, gaging station 05102500, July 1974 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			North Dakota data, July 1974 through July 2001--Continued							
39383	DIELDRIN BTM UG/KG	5	--	--	--	--	--	--	--	--
39389	ENDOSULFANE BTM UG/KG	2	--	--	--	--	--	--	--	--
39393	ENDRIN BTM UG/KG	5	--	--	--	--	--	--	--	--
39399	ETHION BTM UG/KG	3	--	--	--	--	--	--	--	--
39423	HEPT EPOX BTM U UG/KG	5	--	--	--	--	--	--	--	--
39413	HEPTACHLOR BTM U UG/KG	5	--	--	--	--	--	--	--	--
39343	LINDANE BTM U UG/KG	5	--	--	--	--	--	--	--	--
39531	MALATHION BTM U UG/KG	3	--	--	--	--	--	--	--	--
39481	MTHXYCLR BTM UG/ UG/KG	5	--	--	--	--	--	--	--	--
39601	MET PARTH BTM U UG/KG	3	--	--	--	--	--	--	--	--
39791	MET TRITH BTM U UG/KG	3	--	--	--	--	--	--	--	--
39758	MIREX BTM UG/KG	2	--	--	--	--	--	--	--	--
39363	P,P'-DDD BEDMAT UG/KG	5	--	--	--	--	--	--	--	--
39368	P,P'-DDE BED MAT UG/KG	5	--	--	--	--	--	--	--	--
39373	P,P'-DDT BTM UG/KG	5	--	--	--	--	--	--	--	--
39541	PARATHION BTM UG UG/KG	3	--	--	--	--	--	--	--	--
39519	PCB BTM UG/KG	5	--	--	--	--	--	--	--	--
39251	PCN TOTAL BTM DR UG/KG	2	--	--	--	--	--	--	--	--
39761	SILVEX BTM UG/KG	1	--	--	--	--	--	--	--	--
39403	TOXAPHENE BTM UG/KG	5	--	--	--	--	--	--	--	--
39787	TRITHION BTM UG/KG	3	--	--	--	--	--	--	--	--
82082	HYDROGEN 2 / 1 R RATIO PER MIL	1	-68.500	--	--	--	--	--	--	--
82085	OXYGEN 18 / 16 R RATIO PER MIL	1	-8.700	--	--	--	--	--	--	--
82068	POTSSSIUM 40 DIS (PCI/L AS K40)	6	5.700	4.300	5.100	5.700	5.550	5.300	4.450	4.300
07000	TRITIUM TOTAL (PCI/L)	1	61.000	--	--	--	--	--	--	--
75985	TRITIUM PREC EST PCI/L	1	6.400	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	112	100.000	22.000	94.839	100.000	100.000	99.000	94.250	75.300
80156	SUS-SED DISCH + T/DAY	182	0.000	--	--	--	--	--	--	--
80154	CONCENTRATION,S. MG/L	120	911.000	6.000	144.133	480.050	218.250	110.000	22.500	9.000
80155	DISCHARGE,SUSP.S T/DAY	182	31000.000	0.000	1719.135	12370.014	801.000	36.000	0.000	0.000
80184	SED-TOT-FALL-D-. %	1	10.000	--	--	--	--	--	--	--

Supplement 43. Statistical summary of water-quality data for the Red River of the North at Emerson, Manitoba, gaging station 05102500, July 1974 through July 2001--Continued

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Parametar code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
	Minnesota data, October 1992 through March 2000									
00065	GAGE HEIGHT (FEET)	2	229.360	13.710	--	--	--	--	--	--
00060	DISCHARGE CFS	29	40300.000	1010.000	14255.518	36050.000	24300.000	9780.000	3895.000	1235.000
00061	DISCHARGE, INST. CFS	8	25500.000	1020.000	8207.500	25500.000	20935.000	1900.000	1225.000	1020.000
70303	RESIDUE DIS TON/ T/AC-FT	34	0.900	0.300	0.618	0.825	0.700	0.600	0.600	0.375
70302	DISSOLVED SOLIDS TONS/DAY	22	33200.000	1120.000	13018.637	33050.000	21850.000	8325.000	3752.500	1169.500
70300	RESIDUE DIS 180C MG/L	34	651.000	245.000	449.471	600.750	499.250	451.500	410.750	279.500
70301	DISSOLVED SOLIDS MG/L	34	597.000	228.000	419.265	565.500	477.000	416.500	361.750	264.000
00076	TURBIDITY (NTU)	5	230.000	3.500	--	--	--	--	--	--
00025	AIR PRESSURE (MM OF HG)	39	756.000	727.000	743.513	753.000	748.000	744.000	740.000	735.000
00300	OXYGEN DISSOLVED (MG/L)	41	15.600	1.300	9.651	14.870	11.900	10.300	7.700	2.170
00301	OXYGEN DIS. PERC % OF SATURATIO	39	110.000	15.600	81.608	109.000	96.700	86.100	74.700	23.900
00400	PH, WH, FIELD (STANDARD UNIT	50	8.800	7.400	7.942	8.490	8.100	7.900	7.775	7.500
00403	PH, WH, LABORATO (STANDARD UNIT	34	8.500	7.400	7.868	8.425	8.000	7.850	7.700	7.475
90095	SPECIFIC CONDUCT MICROSIEMENS/C	34	973.000	413.000	701.029	967.750	776.250	695.000	628.000	446.750
00095	SPECIFIC CONDUCT US/CM @ 25C	49	1020.000	76.000	639.163	934.500	756.500	693.000	540.500	313.000
00020	AIR TEMPERATURE DEGREES C	40	23.500	-22.000	6.547	23.330	18.000	7.500	-3.000	-16.850
00010	WATER TEMPERATUR (DEGREES C)	46	22.000	0.000	8.028	21.325	15.600	5.400	0.500	0.000
00904	HARDNESS NC. DIS (MG/L AS CACO3	30	176.000	16.000	83.767	158.400	107.000	84.000	48.250	19.850
00900	HARDNESS TOTAL (MG/L AS CAO3)	34	424.000	156.000	288.853	397.750	312.000	291.000	268.250	177.000
00915	CALCIUM DISSOLVE (MG/L AS CA)	34	90.400	36.000	65.065	86.350	70.150	66.000	61.650	42.000
00925	MAGNESIUM DISSOL (MG/L AS MG)	34	48.000	16.000	30.674	44.250	34.000	31.200	28.525	17.500
00935	POTASSIUM DISSOL (MG/L AS K)	34	10.900	4.480	7.602	10.225	9.250	8.300	5.500	4.570
00931	SODIUM ADSORPTIO (RATIO)	34	1.960	0.185	0.851	1.608	0.938	0.858	0.709	0.360
00930	SODIUM DISSOLVED (MG/L AS NA)	34	80.000	7.500	33.426	63.500	37.250	33.900	26.750	10.875
00932	SODIUM, PERCENT PERCENT	34	34.800	4.840	19.184	31.125	20.950	19.300	16.950	11.260
90410	ANC, TIT. 4.5, L MG/L AS CACO3	31	294.000	130.000	218.839	283.200	256.000	229.000	201.000	131.200
00418	ALKALINITY,DIS,F (MG/L AS CACO3	3	261.000	216.000	--	--	--	--	--	--
39086	ALKALINITY,DIS,I (MG/L AS CACO3	36	296.000	112.000	208.722	282.400	238.750	214.500	183.250	125.600
00453	BICARBONATE,DIS, (MG/L AS HCO3)	36	361.000	136.000	251.417	344.000	286.750	257.500	223.500	152.150
00452	CARBONATE,DIS,IT (MG/L AS CO3)	36	22.000	0.000	1.667	15.200	0.000	0.000	0.000	0.000
00940	CHLORIDE DISSOLV (MG/L AS CL)	34	110.000	11.000	32.000	88.250	38.225	28.950	18.750	11.000
00950	FLUORIDE DISSOLV (MG/L AS F)	34	0.300	0.100	0.188	0.225	0.200	0.200	0.200	0.100
00955	SILICA DISSOLVED (MG/L AS SIO2)	34	38.000	5.400	15.256	30.500	17.200	14.100	11.875	6.825
00945	SULFATE DISSOLVE (MG/L AS SO4)	34	200.000	44.000	104.982	193.250	140.000	86.350	70.000	45.500
00608	NITROGEN AMMONIA (MG/L AS N)	39	0.370	0.020	0.118	0.300	0.190	0.102	0.040	0.020

Supplement 43. Statistical summary of water-quality data for the Red River of the North at Emerson, Manitoba, gaging station 05102500, July 1974 through July 2001--Continued

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			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, October 1992 through March 2000--Continued							
00623	NITRO AMN & ORG (MG/L AS N)	34	1.600	0.100	0.931	1.525	1.125	0.900	0.700	0.475
00625	NITROGEN AMM+ORG (MG/L AS N)	39	1.900	0.700	1.095	1.900	1.200	1.000	0.900	0.750
71846	NITR. NH4 AS NH4 MG/L AS NH4	39	0.476	0.026	0.153	0.386	0.245	0.131	0.052	0.026
00610	NITROGEN AMMONIA (MG/L AS N)	2	0.050	0.020	--	--	--	--	--	--
71845	NITROGEN, NH4, T MG/L AS NH4	2	0.060	0.030	--	--	--	--	--	--
00602	NITROGEN DISSOLV (MG/L AS N)	33	7.300	0.867	2.170	5.893	3.150	1.350	1.160	0.883
00618	NITROGEN NITRATE (MG/L AS N)	18	5.560	0.057	1.749	5.560	3.072	0.980	0.275	0.057
71851	NITR. NO3 AS NO3 MG/L AS NO3	18	24.600	0.252	7.740	24.600	13.625	4.335	1.215	0.252
00620	NITROGEN NITRATE MG/L AS N	1	0.100	--	--	--	--	--	--	--
00631	NO2 + NO3 DISSOL (MG/L AS N)	39	5.800	0.050	1.067	3.710	0.920	0.460	0.260	0.067
00630	NO2 + NO3 TOTAL (MG/L AS N)	2	--	--	--	--	--	--	--	--
71856	NITR. NO2 AS NO2 MG/L AS NO2	19	0.789	0.033	0.252	0.789	0.460	0.099	0.066	0.033
00613	NITROGEN,NITRITE MG/L AS N	39	0.240	--	*0.039	*0.170	*0.030	*0.008	*0.002	*0.000
00615	NITROGEN,NITRITE MG/L AS N	2	--	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC (MG/L AS N)	33	1.390	0.560	0.831	1.362	0.919	0.809	0.660	0.567
00605	NITROGEN ORGANIC (MG/L AS N)	39	1.880	0.600	0.976	1.710	1.100	0.920	0.780	0.641
00600	NITROGEN TOTAL (MG/L AS N)	38	7.400	1.020	2.196	5.699	2.480	1.440	1.200	1.087
71887	NITROGEN, TOTAL MG/L AS NO3	1	5.400	--	--	--	--	--	--	--
00660	PHOSPHATE ORTHO. (MG/L AS PO4)	39	1.070	0.089	0.375	0.951	0.521	0.307	0.153	0.092
00650	PHOSPHATE TOTAL (MG/L AS PO4)	2	0.460	0.215	--	--	--	--	--	--
00666	PHOSPHORUS DISS. (MG/L AS P)	39	0.360	0.030	0.135	0.330	0.200	0.100	0.060	0.040
00671	PHOSPHORUS ORTHO (MG/L AS P)	39	0.350	0.029	0.122	0.310	0.170	0.100	0.050	0.030
70507	PHOS ORTHO TOT A MG/L AS P	2	0.150	0.070	--	--	--	--	--	--
00665	PHOSPHORUS TOTAL (MG/L AS P)	39	0.550	0.040	0.217	0.490	0.350	0.180	0.079	0.045
00626	NITROGEN AMMONIA (MG/KG AS N)	4	5300.000	2400.000	--	--	--	--	--	--
00633	NO2 + NO3 BOT. M (MG/KG AS N)	4	--	--	--	--	--	--	--	--
00405	CARBON DIOXIDE D (MG/L AS CO2)	31	12.900	0.700	6.000	12.780	9.000	5.100	3.500	1.060
00681	CARBON ORGANIC D (MG/L AS C)	23	22.000	8.700	12.248	20.400	13.000	12.000	11.000	8.960
00689	CARBON ORGANIC P (MG/L AS C)	21	8.600	0.300	2.000	8.130	2.500	1.400	1.050	0.310
00687	CARBON ORG. BOT. (GM/KG AS C)	1	20.000	--	--	--	--	--	--	--
31625	COLIFORM FECAL 0 COLS./100 ML	3	48.000	1.000	--	--	--	--	--	--
31673	FECAL STREP,KF M COLS./100 ML	3	140.000	13.000	--	--	--	--	--	--
70953	CHL-A PHY CHROMA UG/L	1	0.800	--	--	--	--	--	--	--
70954	CHLOROPHYLL-B, P UG/L	1	0.100	--	--	--	--	--	--	--
01106	ALUMINUM DISSOLV (UG/L AS AL)	3	--	--	--	--	--	--	--	--

Supplement 43. Statistical summary of water-quality data for the Red River of the North at Emerson, Manitoba, gaging station 05102500, July 1974 through July 2001--Continued

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Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, October 1992 through March 2000--Continued							
01005	BARIUM DISSOLVED (UG/L AS BA)	3	65.000	51.000	--	--	--	--	--	--
01035	COBALT DISSOLVED (UG/L AS CO)	3	--	--	--	--	--	--	--	--
01046	IRON DISSOLVED (UG/L AS FE)	32	260.000	--	*29.183	*162.500	*27.500	*15.000	*4.521	*1.527
01130	LITHIUM DISSOLVE (UG/L AS LI)	3	38.000	27.000	--	--	--	--	--	--
01056	MANGANESE DISSOL (UG/L AS MN)	32	85.000	--	*19.426	*70.570	*29.750	*15.400	*2.250	*0.503
01060	MOLYBDENUM DISSO (UG/L AS MO)	3	--	--	--	--	--	--	--	--
01065	NICKEL DISSOLVED (UG/L AS NI)	3	3.000	2.000	--	--	--	--	--	--
01145	SELENIUM DISSOLV (UG/L AS SE)	3	--	--	--	--	--	--	--	--
01075	SILVER DISSOLVED (UG/L AS AG)	3	--	--	--	--	--	--	--	--
01080	STRONTIUM DISSOL (UG/L AS SR)	3	280.000	240.000	--	--	--	--	--	--
01085	VANADIUM DISSOLV (UG/L AS V)	3	--	--	--	--	--	--	--	--
49295	1-NAPHTHOL FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
77441	1-NAPHTHOL, WHOL (UG/L)	1	--	--	--	--	--	--	--	--
82183	2,4-DP TOTAL UG/L	1	--	--	--	--	--	--	--	--
39742	2,4,5-T DISSOLVE UG/L	22	--	--	--	--	--	--	--	--
39740	2,4,5-T TOTAL(WA UG/L	1	--	--	--	--	--	--	--	--
39732	2,4-D DISSOLVED UG/L	22	--	--	--	--	--	--	--	--
39730	2,4-D TOTAL (WA UG/L	1	--	--	--	--	--	--	--	--
38746	2,4-DB FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
82660	26DIETHYLANILINE (UG/L)	26	--	--	--	--	--	--	--	--
82584	3-HYDRX. CARBOFU UG/L	1	--	--	--	--	--	--	--	--
49308	3HYDRXYCARBOFURA (UG/L)	22	--	--	--	--	--	--	--	--
49260	ACETOCHLOR FLTRD (UG/L)	4	--	--	--	--	--	--	--	--
49315	ACIFLUORFEN FLTR (UG/L)	22	--	--	--	--	--	--	--	--
46342	ALACHLOR, DISS, UG/L	26	0.110	--	*0.009	*0.081	*0.009	*0.003	*0.001	*0.000
49313	ALDICARB SULFONE (UG/L)	22	--	--	--	--	--	--	--	--
82587	ALDICARB SULFONE UG/L	1	--	--	--	--	--	--	--	--
49314	ALDICARB SULFOXI (UG/L)	22	--	--	--	--	--	--	--	--
82586	ALDICARB SULFOXI UG/L	1	--	--	--	--	--	--	--	--
49312	ALDICARB FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
82619	ALDICARB UG/L	1	--	--	--	--	--	--	--	--
34253	ALPHA BHC UG/L	26	--	--	--	--	--	--	--	--
39632	ATRAZINE, DISS, UG/L	26	0.280	0.021	0.079	0.259	0.098	0.038	0.029	0.022
82673	BENFLURALIN FIL (UG/L)	26	--	--	--	--	--	--	--	--
38711	BENTAZON, FLTRD (UG/L)	22	2.000	--	*0.229	*1.880	*0.192	*0.020	*0.003	*0.000

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			Minnesota data, October 1992 through March 2000--Continued							
04029	BROMACIL DISS RE (UG/L)	22	--	--	--	--	--	--	--	--
49311	BROMOXYNIL FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
04028	BUTYLATE DISS RE (UG/L)	26	--	--	--	--	--	--	--	--
49310	CARBARYL FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
82680	CARBARYL FIL 0.7 (UG/L)	26	--	--	--	--	--	--	--	--
39750	CARBARYL UNFILT UG/L	1	--	--	--	--	--	--	--	--
49309	CARBOFURAN FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
82674	CARBOFURAN FIL. (UG/L)	26	--	--	--	--	--	--	--	--
82615	CARBOFURAN UG/L	1	--	--	--	--	--	--	--	--
61188	CHLORAMBEN, METH (UG/L)	22	--	--	--	--	--	--	--	--
49306	CHLOROTHALONIL F (UG/L)	21	--	--	--	--	--	--	--	--
38933	CHLORPYRIFOS, DI UG/L	26	--	--	--	--	--	--	--	--
49305	CLOPYRALID FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
04041	CYANAZINE DISS R (UG/L)	26	0.150	0.004	0.036	0.143	0.053	0.019	0.013	0.005
49304	DACTHAL MONO-ACI (UG/L)	22	--	--	--	--	--	--	--	--
82682	DCPA FIL 0.7 REC (UG/L)	26	--	--	--	--	--	--	--	--
04040	DEETHYL ATRAZINE (UG/L)	26	0.025	--	*0.010	*0.024	*0.016	*0.006	*0.004	*0.001
39572	DIAZINON DISSOLV UG/L	26	--	--	--	--	--	--	--	--
82052	DICAMBA,TOTAL UG/L	1	--	--	--	--	--	--	--	--
38442	DICAMBA FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
49303	DICHLOBENIL FLTR (UG/L)	22	--	--	--	--	--	--	--	--
49302	DICHLORPRO FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
39381	DIELDRIN DISSOLV UG/L	26	--	--	--	--	--	--	--	--
49301	DINOSEB FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
82677	DISULFOTON FIL. (UG/L)	26	--	--	--	--	--	--	--	--
49300	DIURON FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
49299	DNOC FLTD (UG/L)	22	--	--	--	--	--	--	--	--
82668	EPTC FIL 0.7 REC (UG/L)	26	0.240	--	*0.022	*0.175	*0.023	*0.010	*0.004	*0.001
49298	ESFENVALERATE FL (UG/L)	22	--	--	--	--	--	--	--	--
82663	ETHALFLURALIN FI (UG/L)	26	--	--	--	--	--	--	--	--
82672	ETHOPROP FIL 0.7 (UG/L)	26	--	--	--	--	--	--	--	--
49297	FENURON FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
38811	FLUOMETURON FLT (UG/L)	22	--	--	--	--	--	--	--	--
04095	FONOFOX DISS REC (UG/L)	26	--	--	--	--	--	--	--	--
39341	LINDANE DISSOLVE UG/L	26	--	--	--	--	--	--	--	--

Supplement 43. Statistical summary of water-quality data for the Red River of the North at Emerson, Manitoba, gaging station 05102500, July 1974 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
		Minnesota data, October 1992 through March 2000--Continued								
38478	LINURON FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
82666	LINURON FIL 0.7 (UG/L)	26	--	--	--	--	--	--	--	--
39532	MALATHION DISSOL UG/L	26	--	--	--	--	--	--	--	--
38482	MCPA FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
38487	MCPB FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
38501	METHIOCARB FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
30282	METHIOCARB WTR W UG/L	1	--	--	--	--	--	--	--	--
39051	METHOMYL TOTAL UG/L	1	--	--	--	--	--	--	--	--
49296	METHOMYL FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
82686	METHYL AZINPHOS (UG/L)	26	--	--	--	--	--	--	--	--
82667	METHYL PARATHION (UG/L)	26	--	--	--	--	--	--	--	--
38260	DETERGENTS (MBAS MG/L	1	0.040	--	--	--	--	--	--	--
39415	METOLACHLOR,WAT. UG/L	26	0.170	0.002	0.025	0.141	0.033	0.009	0.006	0.002
82630	METRIBUZIN,WAT.D UG/L	26	--	--	--	--	--	--	--	--
82671	MOLINATE FIL 0.7 (UG/L)	26	--	--	--	--	--	--	--	--
82684	NAPROPAMIDE FIL (UG/L)	26	--	--	--	--	--	--	--	--
49294	NEBURON FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
49293	NORFLURAZON FLTR (UG/L)	22	--	--	--	--	--	--	--	--
49292	ORYZALIN FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
38866	OXAMYL FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
82613	OXYAMYL UG/L	1	--	--	--	--	--	--	--	--
34653	P,P' DDE DISSOLV (UG/L)	26	--	--	--	--	--	--	--	--
39542	PARATHION DISSOL UG/L	26	--	--	--	--	--	--	--	--
82669	PEBULATE FIL 0.7 (UG/L)	26	--	--	--	--	--	--	--	--
82683	PENDIMETHALIN F. (UG/L)	26	--	--	--	--	--	--	--	--
82687	PERMETHRIN FIL. (UG/L)	26	--	--	--	--	--	--	--	--
32730	PHENOLS, TOTAL UG/L	1	1.000	--	--	--	--	--	--	--
82664	PHORATE FIL 0.7 (UG/L)	26	--	--	--	--	--	--	--	--
49291	PICLORAM FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
39720	PICLORAM, TOTAL UG/L	1	--	--	--	--	--	--	--	--
04037	PROMETON DISS RE (UG/L)	26	0.034	--	*0.013	*0.032	*0.017	*0.011	*0.007	*0.004
82676	PRONAMIDE FIL .7 (UG/L)	26	--	--	--	--	--	--	--	--
04024	PROPACHLOR DISS (UG/L)	26	--	--	--	--	--	--	--	--
82679	PROPANIL FIL 0.7 (UG/L)	26	--	--	--	--	--	--	--	--
82685	PROPARGITE FIL. (UG/L)	26	--	--	--	--	--	--	--	--

Supplement 43. Statistical summary of water-quality data for the Red River of the North at Emerson, Manitoba, gaging station 05102500, July 1974 through July 2001--Continued

[A complete unabbreviated list of each parameter code and corresponding property or constituent is at the beginning of the supplemental tables; --, no data]

Parameter code	Property or constituent	Sample size	Descriptive statistics			Percentage of samples in which values were less than or equal to those shown				
			Maximum	Minimum	Mean	95	75	Median 50	25	5
			Minnesota data, October 1992 through March 2000--Continued							
39052	PROPHAM TOTAL UG/L	1	--	--	--	--	--	--	--	--
49236	PROPHAM FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
38538	PROPOXUR FLTRD (UG/L)	21	--	--	--	--	--	--	--	--
30296	PROPOXUR, WTR WH UG/L	1	--	--	--	--	--	--	--	--
39762	SILVEX DISSOLVED UG/L	22	--	--	--	--	--	--	--	--
39760	SILVEX TOTAL (WA UG/L	1	--	--	--	--	--	--	--	--
04035	SIMAZINE DISS RE (UG/L)	26	0.016	--	*0.007	*0.016	*0.010	*0.006	*0.004	*0.002
82670	TEBUTHIURON FIL (UG/L)	26	--	--	--	--	--	--	--	--
82665	TERBACIL FIL 0.7 (UG/L)	26	--	--	--	--	--	--	--	--
82675	TERBUFOS FIL 0.7 (UG/L)	26	--	--	--	--	--	--	--	--
82681	THIOBENCARB FIL (UG/L)	26	--	--	--	--	--	--	--	--
82678	TRIALLATE FIL .7 (UG/L)	26	0.067	--	*0.010	*0.055	*0.009	*0.005	*0.002	*0.000
49235	TRICLOPYR FLTRD (UG/L)	22	--	--	--	--	--	--	--	--
82661	TRIFLURALIN FIL (UG/L)	26	0.011	--	*0.003	*0.011	*0.006	*0.002	*0.001	*0.000
82082	HYDROGEN 2 / 1 R RATIO PER MIL	1	-70.000	--	--	--	--	--	--	--
82085	OXYGEN 18 / 16 R RATIO PER MIL	1	-8.270	--	--	--	--	--	--	--
70331	SED-SUSP-SIEVE-. %	26	100.000	95.000	98.885	100.000	100.000	99.000	99.000	95.350
80154	CONCENTRATION,S. MG/L	30	612.000	7.000	157.267	444.250	238.000	170.500	24.750	8.100
80155	DISCHARGE,SUSP.S T/DAY	24	27500.000	27.000	7751.500	26325.000	15225.000	4275.000	1050.000	30.500

*Value is estimated by using a log-probability regression to predict the values of data below the detection limit.