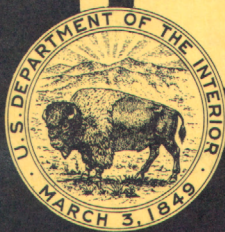
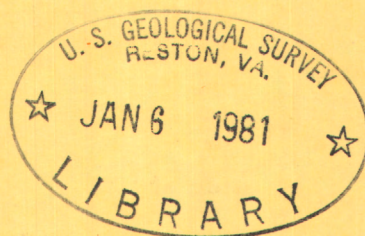


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Water Resources Data for Nebraska

Part 2. Water Quality Records



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the Conservation and Survey Division
of the University of Nebraska, the Nebraska Department of Water
Resources, and with other State and Federal agencies

CALENDAR FOR WATER YEAR 1971

OCTOBER 1970

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

NOVEMBER 1970

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

DECEMBER 1970

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JANUARY 1971

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

FEBRUARY 1971

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

MARCH 1971

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

APRIL 1971

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

MAY 1971

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

JUNE 1971

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

JULY 1971

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST 1971

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

SEPTEMBER 1971

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

1972

Water Resources Data for Nebraska

Part 2. Water Quality Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

**Prepared in cooperation with the Conservation and Survey Division
of the University of Nebraska, the Nebraska Department of Water
Resources, and with other State and Federal agencies**

Prepared in cooperation with
Conservation and Survey Division, University of Nebraska
Nebraska Department of Water Resources
Salt Valley Watershed District
Nebraska Game and Parks Commission
Bureau of Reclamation, U.S. Department of the Interior
U.S. Environmental Protection Agency

Water resources records, 1971, for Nebraska are in
the following reports of the U.S. Geological Survey:

1. Water Resources Data for Nebraska
Part 1. Surface Water Records
2. Water Resources Data for Nebraska
Part 2. Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
Room 127, Nebraska Hall
901 North 17th Street
Lincoln, Nebraska 68508

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(Letters after station name designate type of data:
(c), chemical; (t), water temperature; (s), sediment)

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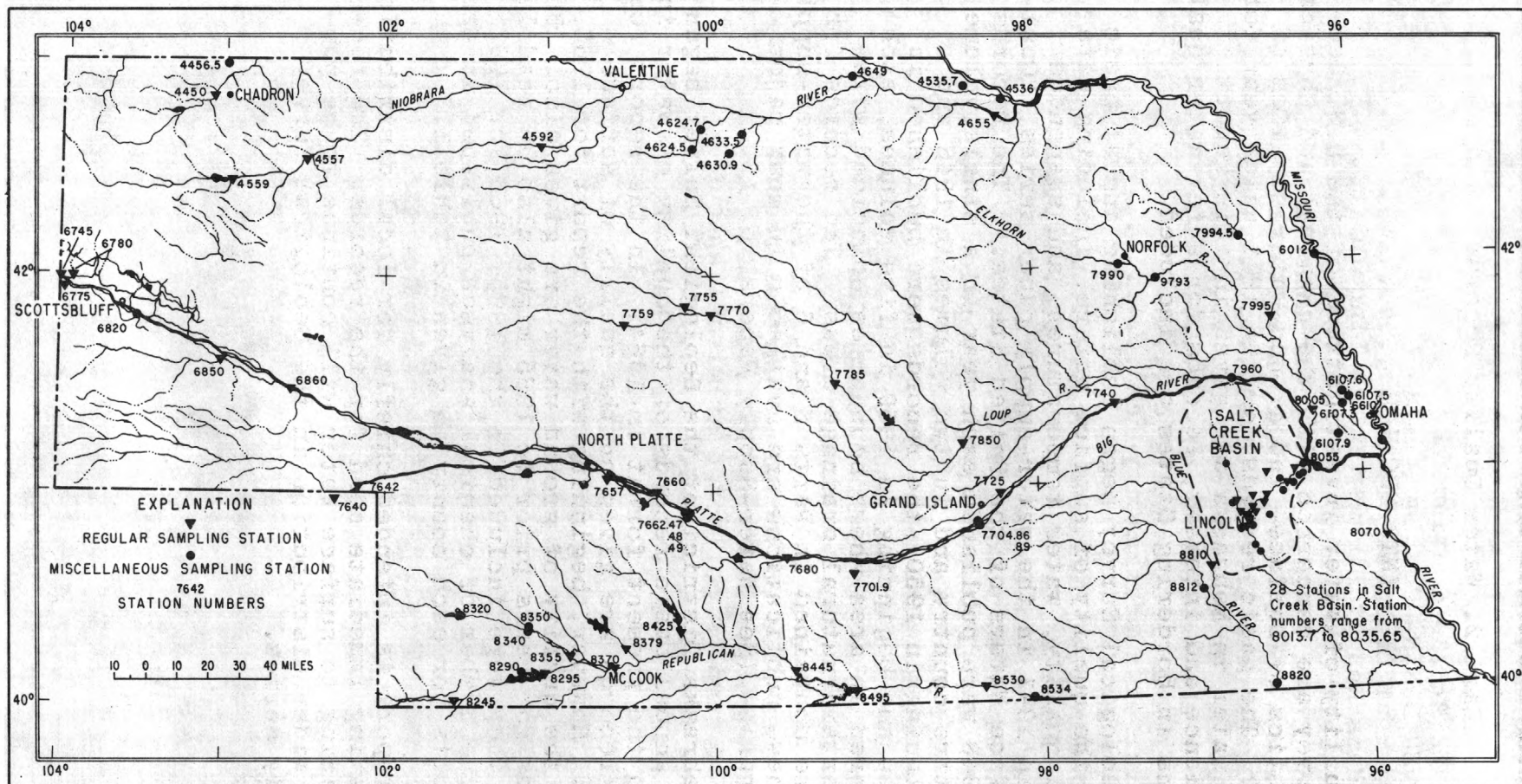


Figure 1.--Map showing locations of surface water-quality stations in Nebraska, 1971 water year.

WATER RESOURCES DATA FOR NEBRASKA, 1971

Part 2. Water Quality Records

INTRODUCTION

The quality-of-water investigations of the U.S. Geological Survey are concerned with the chemical and physical characteristics of surface- and ground-water supplies of the Nation. The basic records for the 1971 water year for quality of water in Nebraska are given in this report. For convenience and interest, records for a few water quality stations in bordering States are included.

The Geological Survey began publishing annual basic records of the quality of surface waters, including data on chemical quality, water temperatures, and suspended sediment, in 1941 in the water-supply paper series, "Quality of Surface Waters of the United States." The records prior to 1948 were published each year in a single volume for the entire country and in two volumes in 1948 and 1949. Beginning in 1950, the records were published in four volumes and beginning in 1959 in five volumes; each volume covered an area where boundaries coincided with those of certain natural drainage areas. The records for Nebraska are contained in Parts 5 and 6 of the water-supply series. These publications are available in most major public libraries. (See Water-Supply Papers, p. 15.)

The Nebraska District of the Geological Survey began to publish annual basic records of the quality of water in Nebraska in the present format in 1964. In the report for that year, records are given on the quality of surface water only. However, beginning with the report for 1965, records on the quality of ground water are given also. So that records for years prior to 1965 might also be readily available, they were included in the 1965, 1966, or 1967 reports. The number of chemical analyses published in each of the reports for each county is given in table 1.

This report is intended chiefly for local distribution to those having immediate need for the records. The records pertaining to surface water will continue to be published for wider distribution in the Geological Survey water-supply series.

COOPERATION

The records in this report were obtained under the supervision of K. A. Mac Kichan, district chief, Nebraska District, Water Resources Division, U.S. Geological Survey. Most of them were obtained at the request of other federal agencies as a part of the program of the U.S. Department of the Interior for development of the Missouri River basin or as a part of a national study of the Geological Survey. Funds for collection of records at several stations were provided by the U.S. Environmental Protection Agency.

Many of the records were obtained as parts of the cooperative programs with the following:

Conservation and Survey Division, University of Nebraska, V. H. Dreeszen, director.

Nebraska Department of Water Resources, D. S. Jones, Jr., director.

Salt Valley Watershed District, H. L. Schroeder, general manager.

Nebraska Game and Parks Commission, W. L. Barbee, director.

DEFINITION OF TERMS

Terms and abbreviations are defined as follows:

Acre-foot (ac-ft, AC-FT) is a quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or 325,851 gallons.

Bed material is the shifting portion of fragmented alluvial material of which the streambed is composed.

Biochemical oxygen demand (BOD) is a measure of the oxygen required by microorganisms in stabilizing decomposable organic matter under aerobic conditions.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It equals 86,400 cubic feet, 1.983471 acre-feet, or 646,317 gallons.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds present in a water. It varies with water composition, concentration of reagent, temperature, period of contact, and other factors.

Coliiform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliiform colonies per 100 milliliters was determined by the membrane filter method with immediate incubation in a portable incubator.

Cubic foot per second (cfs, CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Daily mean discharge is the mean discharge for one day.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at time of sampling. If this discharge is reported instead of daily mean value, the heading of the discharge column will be "Discharge (cfs)."

Drainage area of a stream above a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified location.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those stations where a continuous record of discharge is obtained.

Hardness of water is the property of water attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

Load, usually expressed in tons, is the quantity of a given substance that is transported past a sampling station during a specified period.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per liter ($\mu\text{g/l}$, UG/L) is a unit for expressing the concentration of chemical constituents in solution. It represents one one-thousandth of a milligram of constituent in a liter of solution.

Milliequivalents per liter is a unit for expressing the concentration of chemical constituents in terms of the interreacting values of the electrically charged particles, or ions, in solution. One milliequivalent per liter of a positively charged ion will react with one milliequivalent per liter of a negatively charged ion.

Milligrams per liter (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter of most commonly measured constituents may be converted to milliequivalents per liter by multiplying by the factors in table 2, page 14. Concentration of suspended sediment expressed in milligrams per liter is based on the weight of sediment in a liter of water-sediment mixture. Sediment concentrations that are expressed in parts per million may be converted to milligrams per liter by using the factors in table 3, page 15.

Partial-record station is a station where limited data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by sieve, sedimentation (fall diameter), or optical methods.

Particle-size classification agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. This classification is as follows:

Clay: Smaller than 0.004 mm.
Silt: Between 0.004 and 0.062 mm.
Sand: Between 0.062 and 2.0 mm.
Gravel: Between 2.0 and 64.0 mm.

The particle-size distributions given in this report are not necessarily representative of the particle sizes of sediment in transport in the natural stream. Most of the organic matter is removed and the sample is subjected to mechanical and chemical dispersion before analysis of the silt and clay.

Picocurie (PC/L) is one millionth of the amount of radioactivity represented by a microcurie, which, in turn, is the amount of radioactivity given off by one millionth of a gram of radium-226.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited by water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, that is discharged in a given time. It is usually expressed in tons per day, which is calculated as follows:

$$T/Day = \text{Concentration (mg/l)} \times \text{discharge (cfs)} \times 0.0027$$

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/l).

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reaction with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content of the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage is the height of a water surface above an established datum plane; also gage height.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

Tons per acre-foot indicates the dry weight of constituent in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day is the rate at which a substance in solution or suspension passes a given point on the stream.

Tritium unit (T.U.) is equal to one tritium atom in 10^{18} protium (ordinary hydrogen) atoms.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1971, is called the "1971 water year."

Weighted average is used to indicate discharge-weighted average. It is computed by multiplying the discharge for the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the year after thorough mixing in the reservoir.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks or programs. These stations are identified by a statement, in parentheses under the station name, that indicates the type of network or program of which the station is a part. The parenthetical statements and their meanings are as follows:

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimes will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

Irrigation network stations are water quality stations located at or near certain streamflow gaging stations west of the main stem of the Mississippi River. Data collected at these stations are used to evaluate the chemical quality

of surface waters used for irrigation and the changes resulting from the drainage of irrigated lands. Prior to water year 1966, chemical quality data for irrigation was published in the annual water-supply paper series, "Quality of Surface Water for Irrigation, Western States."

Pesticide program is a network of regularly sampled water quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Radiochemical program is a network of regularly sampled water quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

DOWNSTREAM ORDER AND STATION NUMBERS

Records in this report are arranged according to the downstream order of the stations involved. In determining downstream order, stations on tributaries are listed between stations on the main stream in the order in which the tributaries enter the main stream. Stations on tributaries entering above all main-stem stations are listed before the first main-stem station. Stations on tributaries to tributaries are listed similarly. In the list of stations given in the table of contents of this report, the rank of the tributaries is indicated by indentation, each indentation representing one rank.

Each station for which records have been included in this report has been assigned an eight-digit station identification number. This number is a unique number that is assigned according to the "downstream" location of the station and is the same regardless of the type of record involved. The station numbers increase in magnitude in the downstream direction within a major drainage basin, such as the Missouri River basin. The records, therefore, when arranged in ascending numerical order also are then arranged automatically in proper downstream order.

The eight-digit identification number, for example 06887000, appears to the left of the station name in the tables. The first two digits indicate the part of the country in which the station is located and the remaining six digits indicate the individual station. When station numbers are assigned, gaps are left in the number sequence to allow for new stations that may be established in the future. Consequently, lists of station numbers seldom comprise a complete sequence of numbers.

At several stations, flow is divided between two or more major channels each of which has been assigned a separate identification number differing somewhat from the regular station number. Where the channel identification numbers appear on the individual tables, the data shown in the table are stored in the U.S. Geological Survey computer storage cell by this number rather than by the regular station number.

Stream locations for partial-record or miscellaneous stations are indicated only by latitude and longitude figures given in parentheses following the station name.

WELL NUMBERS

Wells for which chemical analyses are given in this report are identified both by a U.S. Geological Survey well number, based on latitude and longitude, and a local well number, based on the land subdivisions of the U.S. Bureau of Land Management. A U.S. Geological Survey well number consists of 15 digits. A typical USGS well number is 402910098352102. The first 6 digits denote the degrees, minutes, and seconds of latitude. The next seven digits denote degrees, minutes, and seconds of longitude. The final two digits are sequence numbers used to distinguish between wells within the same second of latitude and longitude.

An example of a typical local well number is 21N13W14dca. The first two digits indicate the township, which in Nebraska are all north of the 40th parallel base-line. The second two digits indicate the range east or west of the 6th principal meridian. The last two digits indicate the section in which the well is located. The first lower-case letter after these digits denotes the quarter section,

or 160-acre tract; the second denotes the quarter-quarter section, or 40-acre tract; and the third denotes the quarter-quarter-quarter section, or 10-acre tract. The quarter sections, quarter-quarter sections, etc., are designated a, b, c, or d in a counterclockwise direction, beginning with a in the northeast quadrant. If two or more wells are located within the smallest subdivision indicated, the wells are numbered serially.

COLLECTION AND EXAMINATION OF SAMPLES

Samples of surface water ordinarily were obtained at or near gaging stations because water-discharge data are essential for computation and interpretation of water quality records. Samples taken daily were taken by local observers trained and supervised by personnel of the Geological Survey. Samples taken less frequently than daily generally were taken by Geological Survey personnel or by personnel of cooperating agencies. The map on page VI shows the locations of the water quality sampling stations in 1971.

Samples of ground water were taken at or near the points of well discharge, mostly by personnel of the Geological Survey. Some were taken by military personnel at government installations, and a few were taken by private individuals. All samples were taken in containers provided by the Geological Survey. Wells were pumped at least several minutes before sampling to insure that water sampled had not stood for any significant period in the well casing.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit ($^{\circ}\text{F}$). In October 1967 the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/l; MG/L in computer-generated tables) or in micrograms per liter ($\mu\text{g/l}$; UG/L in computer-generated tables). Water temperatures are given in degrees Celsius (centigrade, $^{\circ}\text{C}$). In waters with a density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter.

Solutes

The methods of collecting water samples and of compositing daily samples prior to laboratory analysis are described in a manual by Brown, Skougstad, and Fishman (1970). Although the manual was not published until 1970, the methods in the manual were available in loose-leaf form earlier. The laboratory results in this report are supplemented by other information in the files, such as river stage.

Temperature

Water temperatures were measured at most of the water quality stations and are reported in degrees Celsius ($^{\circ}\text{C}$). To convert degrees Celsius to Fahrenheit, multiply by 1.8 and add 32. For daily stations, the water temperatures were taken at about the same time each day in order that the data would be relatively unaffected by diurnal variations in temperature. Most large swiftly flowing streams probably have a small diurnal variation in water temperature, whereas sluggish or shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. The thermometers used for determining the water temperature were accurate to plus or minus 0.5°C .

At stations where thermographs are located, the records consist of maximum and minimum temperatures for each day and the monthly averages of maximum daily and minimum daily temperatures.

Sediment

Monthly or periodic suspended-sediment samples were generally taken by the ETR (Equal Transit Rate) method. In this method, samples are obtained with an integrating sampler at about 15-20 equally spaced verticals across the stream. Because the vertical transit rate is kept constant at all verticals, the composite of the samples from the 15-20 verticals is a sample properly weighted for differences in discharge distribution across the stream.

The particle-size distributions of suspended sediment and of bed material were determined periodically.

Table 1. Reports in which ground-water records are published

<u>Years of reports and number of chemical analyses in each</u>							
<u>County</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>
Adams.....	0	0	9	0	2	2	0
Antelope.....	11	16	4	9	3	2	2
Arthur.....	0	0	0	0	4	0	0
Banner.....	0	0	13	0	0	0	0
Blaine.....	0	1	0	0	3	0	0
Boone.....	0	20	0	0	2	0	0
Box Butte.....	0	0	28	0	0	0	2
Boyd.....	0	4	0	0	7	0	22
Brown.....	0	12	0	0	1	0	1
Buffalo.....	41	33	8	7	4	10	2
Burt.....	11	8	4	2	4	2	0
Butler.....	0	5	14	6	2	1	0
Cass.....	0	7	0	0	6	0	0
Cedar.....	0	14	0	1	3	0	3
Chase.....	0	0	32	0	0	0	1
Cherry.....	0	0	23	0	0	0	0
Cheyenne.....	3	0	52	0	0	0	0
Clay.....	0	0	48	0	2	2	0
Colfax.....	0	1	0	2	1	1	0
Cuming.....	19	18	12	10	7	5	0
Custer.....	0	17	0	0	2	0	0
Dakota.....	0	1	0	0	4	0	0
Dawes.....	0	0	5	0	0	0	4
Dawson.....	34	26	6	6	3	9	1
Deuel.....	0	0	13	0	0	0	0
Dixon.....	0	6	0	1	3	0	0
Dodge.....	31	22	14	10	9	5	0
Douglas.....	6	8	2	2	15	2	0
Dundy.....	0	0	10	0	0	0	0
Fillmore.....	0	0	73	0	2	3	0
Franklin.....	0	0	16	0	2	0	1
Frontier.....	0	0	4	0	0	0	0
Furnas.....	0	0	6	0	0	0	0
Gage.....	0	0	5	0	5	1	0
Garden.....	0	0	3	0	1	0	0
Garfield.....	0	2	0	0	2	0	0
Gosper.....	0	0	6	0	4	0	0
Grant.....	0	0	2	0	2	0	0
Greeley.....	0	11	0	0	1	0	0

Table 1. Reports in which ground-water records are published--Continued

<u>Years of reports and number of chemical analyses in each</u>							
<u>County</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>
Hall.....	73	56	20	16	11	23	72
Hamilton.....	0	41	0	0	26	2	0
Harlan.....	0	0	3	0	2	0	2
Hayes.....	0	0	4	0	0	0	0
Hitchcock.....	0	0	5	0	0	0	0
Holt.....	82	124	27	7	1	0	5
Hooker.....	0	0	2	0	2	0	0
Howard.....	0	13	0	0	2	1	0
Jefferson.....	0	0	53	0	2	2	0
Johnson.....	0	0	3	0	6	0	0
Kearney.....	0	0	19	0	12	8	0
Keith.....	0	0	24	0	0	0	0
Keya Paha.....	12	18	5	0	1	0	3
Kimball.....	0	0	9	0	0	0	0
Knox.....	6	13	2	2	4	0	5
Lancaster.....	0	64	0	0	1	3	0
Lincoln.....	0	0	6	0	0	0	0
Logan.....	0	0	1	0	3	0	0
Loup.....	0	1	0	0	4	0	0
McPherson.....	0	0	0	0	4	0	0
Madison.....	43	38	14	7	8	6	0
Merrick.....	53	44	10	6	6	14	0
Morrill.....	0	0	15	0	0	0	0
Nance.....	0	40	0	0	1	0	0
Nemaha.....	0	0	0	0	6	0	0
Nuckolls.....	0	0	12	0	2	0	0
Otoe.....	0	1	0	0	6	0	0
Pawnee.....	0	0	0	0	6	0	0
Perkins.....	0	0	8	0	0	0	0
Phelps.....	0	0	9	0	23	28	0
Pierce.....	4	16	2	6	22	1	1
Platte.....	19	11	6	3	3	2	0
Polk.....	0	9	0	0	1	2	0
Red Willow.....	0	0	5	0	0	0	0
Richardson.....	0	0	5	0	5	0	0
Rock.....	0	3	0	1	2	0	0
Saline.....	0	0	34	0	2	1	0
Sarpy.....	5	4	0	0	5	0	0
Saunders.....	1	11	6	4	1	2	0

Table 1. Reports in which ground-water records are published--Continued

Years of reports and number of chemical analyses in each

County	1965	1966	1967	1968	1969	1970	1971
Scotts Bluff.....	0	0	32	0	0	0	1
Seward.....	0	5	0	0	2	1	0
Sheridan.....	0	0	50	0	0	0	1
Sherman.....	0	7	0	0	2	0	0
Sioux.....	0	0	17	0	0	0	1
Stanton.....	14	29	6	3	4	2	0
Thayer.....	0	0	7	0	2	1	0
Thomas.....	0	0	4	0	1	0	0
Thurston.....	8	10	6	2	4	1	0
Valley.....	0	13	0	0	1	0	0
Washington.....	3	6	2	3	3	1	0
Wayne.....	0	6	0	2	1	0	0
Webster.....	0	0	11	0	2	0	0
Wheeler.....	0	4	0	0	1	0	0
York.....	0	31	0	0	6	19	0

Table 2.--Factors for conversion of chemical constituents in milligrams per liter to milliequivalents per liter

Ion	Factor	Ion	Factor
Aluminum (Al^{+3}).....	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as NH_4^{+1}05544	Iron (Fe^{+3}).....	.05372
Barium (Ba^{+2}).....	.01456	Lead (Pb^{+2}).....	.00965
Bicarbonate (HCO_3^{-1})..	.01639	Lithium (Li^{+1}).....	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})...	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})...	.03640
Carbonate (CO_3^{-2}).....	.03333	Nickel (Ni^{+2}).....	.03406
Chloride (Cl^{-1}).....	.02821	Nitrate (NO_3^{-1})....	.01613
Chromium (Cr^{+6}).....	.11539	Nitrite (NO_2^{-1})....	.02174
Cobalt (Co^{+2}).....	.03394	Phosphate (PO_4^{-3})..	.03159
Copper (Cu^{+2}).....	.03148	Potassium (K^{+1})....	.02557
Cyanide (CN^{-1}).....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})...	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})....	.02082
Hydroxide (OH^{-1}).....	.05880	Zinc (Zn^{+2}).....	.03060

NOTE: For constituent reported in micrograms per liter, multiply by the factor and then divide result by 1,000.

Table 3.--Factors for conversion of sediment concentration in parts per million to milligrams per liter*
(All values calculated to three significant figures)

<u>Range of concentration (ppm)</u>	<u>Factor</u>	<u>Range of concentration (ppm)</u>	<u>Factor</u>
0 - 15,900	1.00	322,000 - 341,000	1.26
16,000 - 46,800	1.02	342,000 - 361,000	1.28
46,900 - 76,500	1.04	362,000 - 380,000	1.30
76,600 - 105,000	1.06	381,000 - 399,000	1.32
106,000 - 133,000	1.08	400,000 - 416,000	1.34
134,000 - 159,000	1.10	417,000 - 434,000	1.36
160,000 - 185,000	1.12	435,000 - 451,000	1.38
186,000 - 210,000	1.14	452,000 - 467,000	1.40
211,000 - 233,000	1.16	468,000 - 483,000	1.42
234,000 - 256,000	1.18	484,000 - 498,000	1.44
257,000 - 279,000	1.20	499,000 - 514,000	1.46
280,000 - 300,000	1.22	515,000 - 528,000	1.48
301,000 - 321,000	1.24	529,000 - 542,000	1.50

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

WATER-SUPPLY PAPERS

The table below shows the annual series of water-supply papers that give information on the quality of surface waters in Nebraska.

U.S. Geological Survey, Quality of surface waters of the United States; water years 1941-49: U.S. Geol. Survey Water-Supply Papers:

<u>Year</u>	<u>WSP</u>	<u>Year</u>	<u>WSP</u>	<u>Year</u>	<u>WSP</u>
1941	942	1944	1022	1947	1102
1942	950	1945	1030	1948	1132
1943	970	1946	1050	1949	1162

U.S. Geological Survey, Quality of surface waters of the United States; Parts 5-6, Hudson Bay and Upper Mississippi River basins, and Missouri River basin; water years 1950-70:
U.S. Geol. Survey Water-Supply Papers:

<u>Year</u>	<u>WSP</u>	<u>Year</u>	<u>WSP</u>	<u>Year</u>	<u>WSP</u>
1950	1187	1957	1521	1964	1956
1951	1198	1958	1572	1965	1963
1952	1251	1959	1643	1966	1993
1953	1291	1960	1743	1967	2013
1954	1351	1961	1883	1968	AB2095
1955	1401	1962	1943	1969	AB2145
1956	1451	1963	1949	1970	AB2155

A In preparation.

B Part 6.

SELECTED REFERENCES

The following publications are available for background information on the methods for collecting, analyzing, and evaluating the chemical and physical properties of surface waters:

American Public Health Association and others, 1971, Standard methods for the examination of water and wastewater, 13th ed.: Am. Public Health Assoc., New York, 874 p.

Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Investigation, book 5, chap. A1, 160 p.

Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.

- Colby, B. R., and Hembree, C. H., 1955, Computations of total sediment discharge, Niobrara River near Cody, Nebraska: U.S. Geol. Survey Water-Supply Paper 1357, 187 p.
- Colby, B. R., and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 p.
- Fishman, M. J., and Downs, S. C., 1966, Methods for analysis of selected metals in water by atomic adsorption: U.S. Geol. Survey Water-Supply Paper 1540-C, 45 p.
- Guy, H. P., 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.
- _____, 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 58 p.
- Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.
- Hem, J. D., 1959, Study and interpretation of the chemical characteristics of natural water: U.S. Geol. Survey Water-Supply Paper 1473, 269 p.
- Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.
- Porterfield, George, 1972, Computations of fluvial-sediment discharge: U.S. Geol. Survey Techniques of Water Resources Inv., book 3, chap. C3, 66 p.
- Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle sizes of coarse sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C3, 33 p.

U.S. Inter-Agency Committee on Water Resources, A study of methods used in measurement and analysis of sediment loads in streams:

Report 11, 1957, The development and calibration of visual accumulation tube: St. Anthony Falls Hydraulic Lab., Minneapolis, Minn., 109 p., 43 figs.

Report 12, 1957, Some fundamentals of particle-size analysis: U.S. Govt. Printing Office, Washington, D.C. 20402, 55 p., 9 figs.

Report AA, 1959, Federal Inter-Agency sedimentation instruments and reports: St. Anthony Falls Hydraulic Lab., Minneapolis, Minn., 41 p., 27 figs.

Report 13, 1961, The single stage sampler for suspended sediment: U.S. Govt. Printing Office, Washington, D.C. 20402, 105 p., 51 figs.

Report 14, 1963, Determinations of fluvial sediment discharge: U.S. Govt. Printing Office, Washington, D.C. 20402, 151 p., 70 figs.

WATER QUALITY RECORDS

PART 6. MISSOURI RIVER BASIN

WHITE RIVER BASIN

06445000 WHITE RIVER NEAR WHITNEY, NEBR.

LOCATION.--Lat 42°48'42", long 103°09'59", in SE 1/4, NE 1/4, sec.26, T.33 N., R.50 W., Dawes County, at county road bridge 1.7 miles north and 4.5 miles east of Whitney.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED MAN- GANESE (MG/L)	DIS-SOLVED CAL- CIUM (MG/L)	DIS-SOLVED MAG- NESIUM (MG/L)	SODIUM (MG/L)	SULFATE (MG/L)	CHLO- RIDE (MG/L)	DIS-SOLVED FLUO- RIDE (MG/L)	NITRITE PLUS NITRATE (MG/L)	AMMONIA NITRO- GEN (MG/L)	NITRATE (MG/L)
OCT. 21...	23	--	53	11	103	110	13	.7	--	.02	.1
NOV. 23...	4.0	--	95	24	--	440	18	--	--	.01	.4
DEC. 17...	2.8	380	140	52	--	870	23	--	--	.03	1.1
JAN. 25...	5.0	200	65	14	61	130	8.2	.6	--	.18	1.0
FEB. 23...	2.5	--	15	25	--	330	13	--	--	.04	.9
MAR. 16...	22	48	54	9.5	67	100	13	.5	--	.20	.7
APR. 13...	5.0	--	96	25	--	480	18	--	--	.01	.2
MAY 18...	14	--	78	15	--	210	14	--	--	.02	.3
JUNE 15...	45	420	82	9.5	52	67	7.4	.7	.35	.12	--
JULY 20...	10	0	74	18	98	190	12	.9	.11	.13	--
AUG. 10...	3.2	0	100	42	220	680	18	.8	.03	.21	--
SEP. 15...	2.5	0	110	34	240	630	18	.7	1.5	.36	--

DATE	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
OCT. 21...	--	--	--	--	--	--	--	--	--	--
DEC. 17...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR. 16...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUNE 15...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
JULY 20...	--	--	--	--	--	--	--	--	--	--
AUG. 10...	--	--	--	--	--	--	--	--	--	--
SEP. 15...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	DIS-SOLVED CHRO- MIUM (UG/L)	DIS-SOLVED COPPER (UG/L)	DIS-SOLVED LEAD (UG/L)	DIS-SOLVED MERCURY (UG/L)	TOTAL MERCURY (UG/L)	DIS-SOLVED MOLY- BDENUM (UG/L)	DIS-SOLVED NICKEL (UG/L)	DIS-SOLVED SELE- NIUM (UG/L)	DIS-SOLVED SILVER (UG/L)	DIS-SOLVED ZINC (UG/L)
OCT. 21...	--	--	--	.3	--	--	--	--	--	--
DEC. 17...	0	0	0	.0	--	4	8	8	0	70
MAR. 16...	0	42	0	.0	--	10	3	0	1	10
JUNE 15...	0	9	7	--	1.7	1	0	2	0	10
JULY 20...	0	3	0	.2	--	6	4	6	0	30
AUG. 10...	0	7	2	.5	--	5	12	0	0	10
SEP. 15...	0	4	0	1.0	--	0	4	0	0	20

06445000 WHITE RIVER NEAR WHITNEY, NEBR.--Continued

DRAINAGE AREA.--676 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)
OCT. 21...	.46	--	554	.75	34.9	180	3.4	792	--	6.7	--
NOV. 23...	.04	--	1060	1.44	11.4	340	--	1490	--	2.2	--
DEC. 17...	.17	--	1750	2.38	13.2	560	--	2200	--	1.5	.00
JAN. 25...	.12	100	485	.66	6.55	220	1.8	655	--	2.7	--
FEB. 23...	.13	--	837	1.14	5.65	310	--	1180	--	.9	--
MAR. 16...	1.1	80	372	.51	22.6	170	2.2	514	--	5.3	.00
APR. 13...	.10	340	1070	1.46	14.4	340	--	1490	--	3.7	--
MAY 18...	.24	--	669	.91	25.3	260	--	927	--	1.6	--
JUNE 15...	.60	60	412	.56	50.1	240	1.5	581	7.9	1.5	.00
JULY 20...	.30	220	672	.91	18.1	260	2.7	949	7.3	1.7	.00
AUG. 10...	.17	380	1280	1.74	11.1	420	4.7	1700	7.9	3.1	.00
SEP. 15...	.25	360	1290	1.75	8.71	410	5.1	1760	--	2.4	.00

DATE	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	MALA- THION (UG/L)	DI- AZINON (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)
OCT. 21...	--	--	--	--	--	--	--	--	--	--
DEC. 17...	.00	.00	.00	.00	.00	.00	.00	10	0	0
MAR. 16...	.00	.00	.00	.00	.00	.00	.00	10	0	0
JUNE 15...	.00	.00	.00	.00	.00	.00	.00	10	0	0
JULY 20...	--	--	--	--	--	--	--	5	0	0
AUG. 10...	--	--	--	--	--	--	--	7	0	0
SEP. 15...	.00	.00	.00	--	--	--	--	6	0	0

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 21...	23	780	8.1	8.5	75	9.3	4100	1900
NOV. 23...	4.0	1550	8.1	.0	10	13.4	--	--
DEC. 17...	2.8	2550	7.8	1.0	--	11.7	--	0
JAN. 25...	5.0	700	8.1	1.5	--	11.5	--	18
FEB. 23...	2.5	1190	7.7	1.0	--	11.4	--	4
MAR. 16...	22	495	7.9	3.5	--	11.2	--	50
APR. 13...	5.0	1410	8.4	8.0	--	12.5	--	14
MAY 18...	14	890	8.2	13.0	--	9.0	--	120
JUNE 15...	45	500	8.0	22.5	--	7.1	--	1100
JULY 20...	10	815	8.1	19.0	35	7.9	--	780
AUG. 10...	3.2	1600	8.2	20.0	20	8.1	--	450
SEP. 15...	2.5	1780	9.3	11.5	35	9.4	--	300

NIOBRARA RIVER BASIN

06455900 NIOBRARA RIVER NEAR DUNLAP, NEBR.

LOCATION.--Lat 42°27'48", long 102°55'47", in SE1/4 sec.26, T.29 N., R.48 W., Dawes County, 0.5 mile upstream from gaging station, at county road bridge 0.7 mile upstream from Cottonwood Creek, and 2.0 miles east of Dunlap.

DRAINAGE AREA.--1,580 sq mi, approximately (at gaging station).

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	ALKALINITY AS CaCO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)
AUG. 09...	173	31	29	9.9	28	7.7	201	0	165	11	4.2	.7
DATE	NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)
AUG. 09...	.05	.04	40	221	.30	103	110	0	1.1	319	8.0	7

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT. 15...	12	385	8.1	8.0	6	11.6
29...	12	410	8.3	6.5	1	11.5
NOV. 12...	12	400	8.1	6.0	1	11.2
30...	10	402	8.2	7.0	3	11.0
DEC. 18...	12	400	8.0	.0	10	12.5
JAN. 07...	9.2	405	7.7	1.0	5	10.7
28...	12	370	8.0	3.0	15	11.1
FEB. 11...	14	360	8.0	1.0	15	13.8
MAR. 06...	14	370	8.0	4.0	4	11.7
APR. 12...	13	335	8.3	16.0	3	10.5
MAY 17...	15	350	8.2	20.0	4	9.5
JUNE 21...	10	360	8.2	27.0	6	8.8
JULY 13...	175	325	8.1	20.0	10	7.3
26...	171	305	8.1	21.0	25	7.6
AUG. 09...	173	290	8.1	22.0	15	7.2
27...	150	138	8.0	20.0	15	7.4
SEP. 13...	16	220	8.0	15.0	4	8.4
27...	15	340	8.2	13.0	2	9.5

06457000 NIOBRARA RIVER NEAR COLCLESSER, NEBR.

LOCATION.--Lat 42°32'38", long 102°29'58", in NW 1/4 SE 1/4 sec. 29, T.30 N., R.44 W., Sheridan County, at wooden bridge 1 mile west of Colclesser Mill School, about 2 miles upstream from Pine Creek, and 2.2 miles southwest of State Highway 250 bridge crossing.

DRAINAGE AREA.--2,220 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO ₃) (MG/L)	CAR-BONATE (CO ₃) (MG/L)	ALKA-LINITY AS CaCO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
AUG. 09...	18	52	42	8.3	20	10	206	0	169	17	3.1	.6
DATE	NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA, MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)
AUG. 09...	.08	.05	50	255	.35	12.7	140	0	.7	330	8.0	9

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT. 15...	45	402	8.2	5.5	7	11.3
29...	50	425	8.1	4.0	2	11.4
NOV. 12...	42	425	8.2	9.5	3	10.4
30...	48	418	8.1	7.5	8	11.2
DEC. 18...	50	345	8.0	.0	10	12.3
JAN. 07...	45	350	7.6	1.0	5	9.0
28...	50	380	8.0	1.5	4	11.2
FEB. 11...	50	265	7.8	1.0	5	10.9
MAR. 08...	50	390	8.0	1.5	15	12.4
APR. 12...	40	365	8.4	16.0	5	10.0
MAY 17...	55	365	8.2	20.0	15	8.8
JUNE 21...	30	375	8.3	27.0	8	7.6
JULY 13...	24	370	8.3	24.0	5	7.9
26...	22	275	8.2	24.0	15	8.2
AUG. 09...	18	395	8.2	30.5	4	7.3
27...	18	285	8.2	19.0	3	8.4
SEP. 13...	41	170	8.4	20.0	6	8.6
27...	45	335	8.3	17.0	5	9.3

06459200 SNAKE RIVER ABOVE MERRITT RESERVOIR, NEBR.

LOCATION.--Lat 42°35'40", long 101°02'20", in NE $\frac{1}{4}$ sec.11, T.30 N., R.32 W., Cherry County, temperature recorder at gaging station, on left bank 5 ft upstream from steel piling control, 1,200 ft upstream from Shelbourn Bridge, 0.7 mile northwest of Swanson Camp, 8.5 miles southeast of headquarters for Nebraska National Forest (Niobrara Division), 10 miles upstream from Boardman Creek, and 14.5 miles upstream from Merritt Dam.

DRAINAGE AREA.--430 sq mi, approximately.

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1971.

EXTREMES.--1970-71:

Water temperatures: Maximum, 31.5°C June 26; minimum, freezing point on many days during November, February, and March.

Period of record:

Water temperatures: Maximum (1963-66, 1968-69, 1970-71), 31.5°C June 26, 1971; minimum, freezing point on many days during winter period.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(RECORDER WITH TEMPERATURE ATTACHMENT, CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	14.5	7.5	6.0	6.0	4.0	0.5	0.5	1.0	0.5	5.0	0.5
2	23.5	12.0	6.5	5.5	6.0	3.5	0.5	0.5	0.5	0.5	6.0	0.5
3	22.5	14.5	6.5	5.0	4.5	2.0	1.0	0.5	0.5	0.0	5.5	0.0
4	14.5	11.0	6.5	5.0	3.5	1.0	1.0	1.0	0.0	0.0	9.0	2.0
5	13.5	10.0	8.0	5.5	1.5	1.5	1.0	1.0	0.5	0.0	7.0	4.5
6	12.5	9.5	9.5	7.0	2.5	1.5	1.0	1.0	0.5	0.0	4.5	0.5
7	13.5	10.0	9.5	9.0	2.0	2.0	1.0	0.5	0.5	0.0	5.0	0.0
8	13.5	10.0	9.0	7.0	2.0	2.0	0.5	0.5	0.5	0.0	4.5	0.0
9	13.5	12.0	9.5	7.0	2.0	2.0	0.5	0.5	0.5	0.0	9.5	1.5
10	13.5	10.5	8.0	6.0	2.0	2.0	1.0	0.5	0.0	0.0	9.5	3.5
11	12.0	6.5	6.5	4.0	2.0	1.5	1.0	0.5	0.0	0.0	9.0	4.5
12	6.5	4.5	8.0	3.5	2.5	1.5	1.0	1.0	0.0	0.0	9.5	4.0
13	7.0	4.5	6.5	4.5	1.0	0.5	1.0	1.0	0.0	0.0	12.0	5.5
14	7.5	5.0	4.5	2.0	1.0	0.5	1.0	0.5	6.5	0.0	9.5	5.0
15	7.5	7.0	6.0	1.5	1.0	0.5	1.0	0.5	7.0	4.0	8.0	2.0
16	7.0	4.0	6.5	4.0	1.0	0.5	0.5	0.5	8.5	4.0	8.5	3.0
17	5.5	4.5	8.5	5.5	4.0	1.0	0.5	0.5	6.5	3.5	6.5	1.0
18	7.0	5.5	9.0	6.0	3.0	1.0	1.0	0.5	5.0	0.5	1.0	0.0
19	11.0	7.0	8.0	6.0	1.0	0.5	1.0	0.5	0.5	0.0	4.5	0.0
20	10.5	7.5	6.5	3.5	1.0	0.5	0.5	0.5	0.0	0.0	9.0	0.0
21	14.5	10.5	7.0	3.0	1.0	0.5	0.5	0.5	0.0	0.0	6.5	1.0
22	13.5	10.5	3.0	0.5	1.0	0.5	0.5	0.5	0.0	0.0	5.5	1.0
23	15.5	13.0	0.5	0.5	1.0	0.5	0.5	0.5	0.5	0.0	4.0	1.0
24	14.0	10.5	0.5	0.0	1.0	0.5	1.0	0.5	5.5	0.0	6.5	1.0
25	13.0	10.5	4.5	0.0	1.0	0.5	3.0	0.5	6.5	1.5	7.0	4.0
26	11.0	9.5	4.0	2.0	1.0	0.5	1.0	1.0	6.0	0.0	10.0	5.5
27	9.5	8.5	3.5	1.0	1.0	0.5	4.0	1.0	3.0	0.0	13.5	6.5
28	9.0	7.0	5.5	3.0	1.0	0.5	6.0	2.0	3.0	0.0	10.0	8.0
29	7.0	6.0	7.0	3.0	1.0	0.5	7.0	3.5	---	---	13.0	5.0
30	6.5	6.0	8.0	4.5	0.5	0.5	5.0	1.0	---	---	16.0	7.0
31	6.5	5.5	---	---	0.5	0.5	1.0	1.0	---	---	14.5	5.5
MONTH	23.5	4.0	9.5	0.0	6.0	0.5	7.0	0.5	8.5	0.0	16.0	0.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	2.0	18.5	11.0	23.0	15.5	29.0	19.0	27.0	18.0	28.5	19.5
2	11.0	3.0	18.5	10.0	23.0	15.0	26.0	19.5	25.5	18.0	---	---
3	10.5	6.0	20.0	10.5	24.0	17.0	29.0	18.0	25.5	17.0	---	---
4	9.5	5.5	19.0	14.0	23.0	18.0	28.0	19.5	26.5	18.5	---	---
5	13.5	5.0	16.0	10.0	23.5	15.0	28.0	18.0	28.0	19.0	---	---
6	14.0	5.5	16.5	9.0	23.0	16.5	27.0	20.5	27.0	18.5	---	---
7	16.5	6.0	19.0	10.0	23.5	15.5	25.0	18.0	26.0	18.5	---	---
8	14.5	10.0	19.0	12.0	24.0	16.0	21.0	15.5	26.0	18.0	---	---
9	16.0	8.0	17.0	12.0	23.5	17.0	27.0	16.5	28.5	18.5	---	---
10	16.5	7.0	15.0	11.5	26.5	16.0	28.5	18.5	26.0	20.0	---	---
11	16.0	9.0	16.0	9.5	26.0	17.0	29.0	20.5	28.0	18.5	---	---
12	14.5	8.0	20.0	10.0	24.5	19.0	29.5	21.0	30.0	19.5	---	---
13	15.5	7.0	23.0	13.0	22.0	18.5	25.5	19.0	26.0	19.5	---	---
14	16.0	8.5	20.5	14.0	26.5	16.0	27.0	19.0	26.5	19.5	---	---
15	19.0	10.0	21.5	13.5	27.0	18.5	29.0	18.5	26.5	19.5	---	---
16	20.0	12.0	21.5	14.0	28.5	19.5	29.5	20.0	26.5	19.5	---	---
17	18.5	11.5	20.0	14.0	28.5	19.0	25.5	20.5	29.0	19.5	---	---
18	18.5	13.0	15.5	10.0	28.5	19.0	25.0	20.0	28.0	20.5	---	---
19	15.0	13.0	13.0	8.0	28.0	19.5	26.5	17.0	29.5	19.5	---	---
20	13.0	11.0	19.0	8.5	25.0	19.5	29.5	18.5	28.5	20.0	---	---
21	15.5	10.0	20.0	13.5	29.0	18.5	27.0	20.0	29.5	19.0	---	---
22	13.5	11.0	16.5	13.0	25.0	20.0	30.0	20.5	29.5	20.5	---	---
23	18.0	8.5	13.0	9.5	28.0	18.5	29.5	20.5	28.0	20.5	---	---
24	15.5	11.5	15.5	8.0	29.0	20.0	29.0	20.0	26.0	18.5	---	---
25	12.0	9.0	19.5	10.0	29.0	20.0	24.5	19.0	27.0	18.0	---	---
26	9.0	4.5	19.5	13.0	31.5	20.5	24.5	15.5	26.5	18.5	---	---
27	11.0	2.0	20.0	11.5	29.5	21.5	23.0	18.0	23.0	19.5	---	---
28	16.0	6.5	18.0	12.0	25.0	18.0	21.0	15.5	26.0	18.0	---	---
29	15.0	9.5	20.5	14.0	26.5	19.5	20.0	14.0	26.0	19.5	---	---
30	18.5	10.0	19.0	15.5	28.5	19.5	25.0	14.0	28.5	19.5	---	---
31	---	---	21.0	13.0	---	---	26.5	16.5	27.0	20.5	---	---
MONTH	20.0	2.0	23.0	8.0	31.5	15.0	30.0	14.0	30.0	17.0	---	---

06465500 NIOBRARA RIVER NEAR VERDEL, NEBR.

LOCATION.--Lat 42°44'25", long 98°12'45", near center of $\frac{1}{4}$ sec.23, T.32 N., R.8 W., Knox County, temperature recorder at gaging station at Pishelville Bridge, 6 miles south of Verdel and 7 miles upstream from Verdigre Creek.

DRAINAGE AREA.--12,600 sq mi, approximately.

PERIOD OF RECORD.--Water temperatures: June 1958 to September 1965, October 1966 to September 1971.

EXTREMES.--1970-71:

Water temperatures: Maximum, 36.5°C June 24; minimum, freezing point on many days during November to March.

Period of record:

Water temperatures: Maximum, 38°C July 22, 1964; minimum, freezing point on many days during winter period.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(RECORDER WITH TEMPERATURE ATTACHMENT, CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	14.0	4.5	3.0	3.5	0.0	0.0	0.0	0.5	0.5	0.5	0.5
2	17.0	11.5	4.5	3.5	2.0	0.0	0.0	0.0	0.5	0.0	1.0	0.5
3	18.5	9.0	4.0	3.5	2.0	0.5	0.0	0.0	0.5	0.5	1.0	0.5
4	20.5	10.0	6.0	1.5	1.5	0.0	0.0	0.0	0.5	0.5	0.5	0.0
5	22.0	13.5	7.0	0.5	1.0	0.5	0.0	0.0	0.5	0.5	0.0	0.0
6	21.0	14.5	9.0	2.0	1.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0
7	14.5	5.5	5.5	4.0	0.5	0.0	---	---	1.5	1.0	0.5	0.0
8	5.5	4.5	4.5	3.0	1.0	0.0	---	---	1.5	1.0	0.5	0.0
9	8.0	3.5	6.5	1.5	1.0	0.5	---	---	1.5	1.0	0.0	0.0
10	7.0	4.5	6.0	3.0	0.5	0.0	---	---	1.0	0.5	0.0	0.0
11	8.5	6.0	5.5	2.0	0.5	0.0	---	---	0.5	0.5	0.0	0.0
12	14.0	5.0	2.0	1.5	0.5	0.0	0.0	0.0	1.0	0.5	0.0	0.0
13	13.0	9.0	3.0	1.5	0.5	0.0	0.0	0.0	1.0	0.5	0.0	0.0
14	10.0	6.5	3.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
15	13.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
16	13.0	5.5	3.0	0.5	0.5	0.0	0.0	0.0	1.0	0.0	0.0	0.0
17	14.0	6.0	5.5	1.0	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0
18	14.0	6.5	4.0	1.5	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0
19	12.0	7.0	5.0	3.0	0.5	0.0	0.0	0.0	1.0	1.0	0.5	0.0
20	14.5	7.0	4.5	0.5	0.0	0.0	0.5	0.0	1.0	1.0	1.0	0.0
21	16.0	8.5	4.5	1.0	0.0	0.0	0.5	0.0	1.5	1.0	0.5	0.0
22	16.5	9.5	1.0	0.0	0.0	0.0	0.5	0.0	1.0	0.5	0.5	0.0
23	13.5	11.5	3.0	0.0	0.0	0.0	0.5	0.0	1.0	0.0	1.0	0.5
24	17.0	11.5	6.5	2.0	0.0	0.0	0.5	0.0	1.0	0.0	0.5	0.5
25	14.5	9.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.0	0.0
26	9.5	6.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.5	1.5	0.0
27	9.5	5.0	1.0	0.5	0.0	0.0	0.5	0.0	0.5	0.5	4.5	0.5
28	6.0	4.5	0.5	0.5	0.0	0.0	0.5	0.0	1.0	0.5	3.5	0.5
29	5.5	4.0	0.5	0.0	0.0	0.0	0.5	0.0	---	---	6.5	0.5
30	5.0	3.5	0.5	0.0	0.0	0.0	0.5	0.5	---	---	9.0	2.0
31	6.0	3.0	---	---	0.0	0.0	0.5	0.5	---	---	11.0	5.0
MONTH	22.0	3.0	9.0	0.0	3.5	0.0	0.5	0.0	1.5	0.0	11.0	0.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	2.0	20.0	13.0	21.5	16.0	34.5	21.5	32.0	20.0	30.5	21.5
2	6.0	1.0	20.5	11.0	23.5	15.5	30.0	21.5	29.5	19.0	31.0	21.0
3	9.5	2.0	19.5	12.0	29.0	18.0	27.0	19.5	29.0	18.0	29.0	20.5
4	7.0	4.0	25.0	15.0	26.0	21.0	33.5	21.0	28.5	19.5	25.0	18.5
5	11.0	3.5	19.0	14.0	30.0	18.5	34.0	20.5	28.0	19.5	19.5	15.0
6	13.0	4.5	20.5	12.0	26.0	19.0	29.0	20.5	30.0	19.0	26.5	14.5
7	15.0	6.0	23.0	13.5	29.5	18.5	27.0	20.5	29.0	19.5	29.5	18.0
8	12.0	9.0	24.5	14.5	30.0	20.0	29.0	19.0	30.5	20.0	21.5	16.5
9	16.0	6.5	18.0	15.5	26.5	20.0	30.0	19.5	33.5	20.5	25.0	15.0
10	15.0	7.0	18.0	15.0	31.5	19.0	32.0	20.0	29.5	21.0	26.0	16.0
11	15.5	9.5	19.0	12.0	33.5	20.0	30.5	20.5	30.5	18.0	26.5	16.5
12	16.5	8.5	22.0	11.0	29.5	23.5	34.0	23.5	33.0	20.0	24.0	18.0
13	16.0	8.5	26.0	14.5	28.5	20.5	31.0	20.5	31.5	21.0	24.5	14.5
14	16.5	8.0	26.0	16.5	31.0	20.5	31.5	21.0	30.0	21.5	20.5	14.5
15	20.0	9.0	26.5	17.0	33.5	21.0	33.0	20.5	30.0	19.5	20.5	13.0
16	19.5	13.5	25.5	16.0	32.0	21.5	35.5	21.5	31.5	21.0	19.5	13.5
17	19.0	11.0	24.0	18.0	34.0	21.5	30.0	21.5	31.0	21.5	15.0	11.0
18	18.5	15.0	18.0	13.5	31.5	21.5	29.5	19.5	32.0	22.0	18.0	11.0
19	19.0	15.0	16.0	11.0	35.0	23.0	30.5	17.0	33.0	21.5	19.0	10.0
20	17.0	14.5	23.5	10.0	33.0	22.0	34.0	20.0	33.5	21.5	21.0	11.0
21	14.5	13.0	24.0	14.5	32.0	22.0	33.5	20.5	35.5	22.0	16.5	11.5
22	16.0	11.0	21.5	15.0	32.0	22.0	34.5	20.5	35.0	23.0	11.5	10.0
23	19.0	10.5	22.0	15.0	33.0	21.0	32.0	20.0	32.0	22.0	19.0	8.5
24	19.5	13.0	15.0	11.5	36.5	23.0	31.5	20.5	29.0	19.0	18.5	10.5
25	16.5	11.5	21.0	10.0	34.5	23.0	27.0	20.5	31.0	17.0	18.0	13.5
26	11.5	8.5	23.0	13.5	34.5	24.0	28.5	16.5	29.0	19.0	20.5	14.5
27	9.5	7.0	23.5	13.5	31.0	23.0	26.5	18.0	29.0	17.0	18.0	14.5
28	15.0	6.0	23.0	13.5	30.5	20.0	26.5	16.0	29.5	18.5	21.0	15.5
29	16.0	9.0	21.5	15.0	32.0	23.0	23.5	15.0	29.5	19.5	18.5	13.5
30	20.0	11.5	21.5	16.0	30.5	22.0	28.0	13.5	30.0	20.5	20.5	18.0
31	---	---	24.0	15.5	---	---	31.0	16.0	30.5	21.5	---	---
MONTH	20.0	1.0	26.5	10.0	36.5	15.5	35.5	13.5	35.5	17.0	31.0	8.5

MISSOURI RIVER MAIN STEM

06610000 MISSOURI RIVER AT OMAHA, NEBR.

LOCATION.--Lat 41°20'37", long 95°57'26", in SE 1/4 sec.21, T.16 N., R.13 E., Douglas County, 10.3 miles upstream from gaging station, at raw-water intake line in laboratory of Omaha Metropolitan Utilities District, Florence Station, in Omaha, 0.2 mile downstream from Mormon Bridge. Water diverted from stream at river mile 626.2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

[illegible][illegible][illegible]

MISSOURI RIVER MAIN STEM

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06610000 MISSOURI RIVER AT OMAHA, NEBR.--Continued

DRAINAGE AREA.--322,800 sq mi, approximately (at gaging station).

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT. 06...	--	--	--	--	.06	.1	1.0	--	--	--
09...	190	11	.5	--	--	.3	--	--	60	466
NOV. 03...	--	--	--	--	.03	.3	--	.14	--	--
DEC. 03...	--	--	--	--	.04	.4	.29	--	--	--
JAN. 20...	--	--	--	--	.10	.3	.03	--	--	--
FEB. 02...	--	--	--	--	.14	.3	.11	--	--	--
MAR. 02...	--	--	--	--	.34	1.3	--	.38	--	--
09...	--	--	--	--	--	--	--	--	--	--
APR. 02...	--	--	--	--	.16	1.1	.77	--	--	--
MAY 05...	--	--	--	--	.00	.4	.15	--	--	--
JUNE 04...	--	--	--	.25	.17	--	--	.20	--	--
JULY 02...	--	--	--	.46	.39	--	--	.35	--	--
AUG. 02...	--	--	--	.15	.01	--	--	.15	--	--
SEP. 28...	--	--	--	.19	.14	--	--	.11	--	--

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	MALA- THION (UG/L)	DI- AZINON (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
OCT. 09...	--	--	--	--	--	--	5	2	0	0	0
MAR. 09...	.00	.00	.00	.00	.00	.00	--	<80	<8	--	<8

DATE	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MOLY- BDENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 09...	--	0	--	.0	.2	--	--	--	--	--	16
MAR. 09...	9	2	28	--	--	4	13	<0	430	<8.0	<330

06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE

LOCATION.--Lat 41°59'14", long 104°03'25", in SW 1/4 sec.3, T.23 N., R.60 W., Goshen County, Wyo., at bridge on State Highway 86, 0.3 mile downstream from Wyoming-Nebraska State line 0.6 mile downstream from gaging station, and 0.6 mile south of Henry, Nebr.

DRAINAGE AREA.--26,177 sq mi upstream from gaging station, of which 5,888 sq mi (including 3,959 sq mi in Great Divide basin in southern Wyoming) is probably noncontributing.

PERIOD OF RECORD.--Chemical analyses: October 1965 to September 1971.
Water temperatures: October 1965 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.												
12...	1415	705	21	40	80	21	88	7.0	264	0	220	19
NOV.												
03...	1400	482	26	60	85	20	81	6.8	287	0	210	21
10...	1315	464	8.7	--	87	--	86	--	--	--	220	18
DEC.												
09...	1120	374	--	--	87	--	95	--	--	--	220	19
JAN.												
05...	1620	310	28	40	93	22	89	7.6	317	0	220	24
11...	1145	310	28	10	94	21	82	6.7	306	0	200	22
FEB.												
08...	0945	265	29	40	88	22	84	6.9	299	0	220	19
MAR.												
09...	1230	281	27	10	95	19	84	6.5	293	0	220	21
APR.												
13...	1030	2220	13	0	69	20	55	4.2	189	0	210	15
MAY												
10...	1015	5020	17	690	57	13	38	5.3	174	0	110	12
JUNE												
14...	1345	7540	11	180	56	16	37	3.3	159	0	140	11
JULY												
19...	1430	1390	15	90	57	18	47	4.7	193	0	150	11
AUG.												
16...	1230	1190	14	20	63	17	53	4.0	194	0	160	11
SEP.												
13...	1230	698	20	90	73	19	64	5.3	232	0	190	18

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
OCT.									
12...	.00	.00	.00	.00	.00	.00	.00	.00	.00
JAN.									
11...	.00	.00	.00	.00	.00	.00	.00	.00	.00
APR.									
13...	.00	.00	.00	.00	.00	.00	.00	.00	.00
JULY									
19...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT.			
12...	4.0	<.10	.03
NOV.			
10...	2.1	<.10	--
DEC.			
09...	3.1	<.10	.06
JAN.			
11...	5.0	.00	.03
FEB.			
08...	1.5	.00	.02
MAR.			
09...	.9	.18	.05
APR.			
13...	.3	.07	.10
MAY			
10...	2.1	.10	.20
JUNE			
14...	1.8	.17	.10
JULY			
19...	1.2	.08	.02
AUG.			
16...	1.4	.19	.09
SEP.			
13...	2.4	.12	.08

06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE--Continued

EXTREMES, 1970-71:

Specific conductance: Maximum daily, 1,010 micromhos Oct. 16, Jan. 7; minimum daily, 413 micromhos May 15.

Water temperatures: Maximum, 21.0°C Aug. 17; minimum, freezing point on several days during November to March.

Period of record:

Specific conductance: Maximum daily, 1,010 micromhos Jan. 28, 1966, Jan. 8, Oct. 16, 1970, Jan. 7, 1971; minimum daily, 243 micromhos Dec. 2, 1967.

Water temperatures: Maximum, 27.0°C July 4, 25, 1967; minimum, freezing point on many days during winter period.

REMARKS.--Maximum observed during water year: Water temperatures, 22.0°C July 19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT. 12...	.6	3.2	120	600	.82	1150	290	73	2.3	888	7.9	11.0
NOV. 03...	.5	5.2	130	599	.81	780	300	65	2.1	893	8.1	4.5
10...	.5	4.4	110	626	.85	784	--	--	2.5	904	--	7.5
DEC. 09...	.4	4.8	--	642	.87	648	--	--	2.8	932	--	5.0
JAN. 05...	.6	5.8	90	646	.88	541	320	60	2.2	954	7.7	.0
11...	.7	5.0	100	608	.83	437	320	69	2.0	934	8.0	.5
FEB. 08...	.7	7.2	130	624	.85	446	310	65	2.1	871	8.1	.5
MAR. 09...	.6	5.6	110	618	.84	469	320	80	2.1	853	8.2	7.0
APR. 13...	.5	2.0	90	478	.65	2870	260	105	1.5	686	8.3	9.5
MAY 10...	.5	1.1	70	344	.47	4660	200	57	1.2	490	8.0	11.0
JUNE 14...	.5	1.2	70	356	.48	7250	210	80	1.1	556	8.0	19.0
JULY 19...	.4	1.8	160	401	.55	1510	220	62	1.4	590	8.0	22.0
AUG. 16...	.4	1.4	90	424	.58	1360	230	71	1.5	666	8.1	21.5
SEP. 13...	.5	3.8	80	509	.69	959	260	70	1.7	774	8.1	18.5

DATE	CHLOR-DANE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
OCT. 12...	.0	.00	.00	.00	--	.00	.00	.00
JAN. 11...	.0	.00	.00	.00	.00	.00	.00	.00
APR. 13...	.0	.00	.00	.00	.00	.00	.00	.00
JULY 19...	.0	--	--	--	--	.00	.00	.00

FIELD DETERMINATIONS

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 12...	1415	705	9.3	4300
NOV. 10...	1315	464	9.6	4800
DEC. 09...	1120	374	9.8	12800
JAN. 11...	1145	310	10.5	50
FEB. 08...	0945	265	11.2	90
MAR. 09...	1230	281	9.9	0
APR. 13...	1030	2220	9.9	460
MAY 10...	1015	5020	8.2	930
JUNE 14...	1345	7540	8.6	180
JULY 19...	1430	1390	7.9	210
AUG. 16...	1230	1190	7.9	120
SEP. 13...	1230	698	8.0	70

06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	848	898	914	925	884	896	843	641	566	589	605	678
2	871	898	920	940	886	915	593	633	543	585	653	688
3	871	904	917	912	877	898	620	629	541	583	653	675
4	878	938	912	994	890	908	666	631	544	578	651	688
5	876	894	915	966	882	881	693	590	557	579	659	718
6	885	897	918	969	882	885	713	580	558	574	670	724
7	840	901	920	1010	882	888	726	535	560	565	667	725
8	858	891	922	966	919	891	723	502	568	579	662	698
9	894	894	923	921	919	883	731	510	580	577	668	730
10	902	894	911	954	907	892	734	508	590	576	662	756
11	921	894	915	927	900	892	732	532	589	574	656	752
12	914	904	920	963	897	885	730	501	585	585	657	760
13	859	906	917	966	888	878	724	489	581	578	662	940
14	892	904	925	931	862	869	725	454	582	636	664	785
15	901	906	928	940	888	888	729	413	576	633	664	782
16	1010	926	931	915	886	873	735	415	579	645	664	790
17	894	912	926	905	884	857	743	509	579	625	672	792
18	899	908	928	940	886	821	745	561	577	637	672	789
19	892	919	936	909	895	862	749	575	577	630	672	799
20	899	914	930	907	862	842	724	590	580	624	665	800
21	902	917	933	904	868	854	755	589	575	622	668	798
22	902	910	928	879	868	840	748	592	572	602	664	815
23	902	912	1000	865	885	846	723	599	578	602	661	818
24	901	925	934	890	876	817	725	594	587	600	660	825
25	898	930	930	902	890	828	716	596	584	599	658	828
26	896	919	930	918	909	848	695	576	582	598	657	818
27	899	912	928	918	890	869	688	567	583	600	658	825
28	894	910	934	912	890	881	683	562	586	598	660	830
29	901	908	923	907	---	594	674	557	586	599	662	805
30	906	908	920	886	---	498	666	561	590	600	670	826
31	898	---	922	907	---	506	---	555	---	617	673	---
MONTH	894	908	926	927	888	838	715	553	575	600	661	775

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.5	5.0	3.0	3.0	1.0	2.0	5.0	10.0	15.0	18.0	20.0	20.0
2	10.0	5.0	3.5	2.0	2.0	0.0	5.0	10.0	15.0	19.0	19.0	20.0
3	11.0	4.0	2.0	0.0	1.0	0.0	5.0	10.0	15.0	19.0	20.0	18.0
4	10.0	4.0	3.0	0.0	1.0	4.0	5.0	10.0	15.0	20.0	20.0	17.0
5	11.0	4.0	5.0	0.0	1.0	2.0	5.0	10.0	15.0	20.0	20.0	18.0
6	11.0	7.0	5.0	0.0	1.0	3.0	5.0	8.0	15.0	19.0	20.0	15.0
7	5.0	10.0	5.0	0.0	1.0	0.0	6.0	10.0	15.0	18.0	20.0	19.0
8	5.0	10.0	5.0	0.0	0.5	1.0	5.0	11.0	15.0	18.0	20.0	15.0
9	5.0	5.0	5.0	2.0	0.0	4.0	7.0	12.0	15.0	17.0	20.0	15.0
10	9.0	7.0	3.0	2.0	3.0	6.0	10.0	10.0	15.0	18.0	20.0	16.0
11	5.0	5.0	1.0	0.0	3.0	5.0	9.0	9.0	15.0	19.0	19.0	16.0
12	10.0	7.0	3.0	1.0	3.0	5.0	9.0	10.0	15.0	19.0	20.0	15.0
13	10.0	7.0	3.0	2.0	3.0	5.0	9.0	12.0	15.0	18.0	19.0	15.0
14	9.0	5.0	1.0	2.0	4.0	5.0	10.0	12.0	15.0	19.0	19.0	15.0
15	6.0	5.0	5.0	1.0	2.0	5.0	10.0	14.0	15.0	19.0	20.0	14.0
16	7.0	5.0	2.0	3.0	4.0	5.0	10.0	10.0	16.0	20.0	20.0	15.0
17	7.0	5.0	3.0	4.0	3.0	5.0	11.0	10.0	18.0	20.0	21.0	10.0
18	7.0	5.0	3.0	3.0	5.0	5.0	10.0	8.0	18.0	20.0	20.0	10.0
19	7.0	5.0	0.0	3.0	3.0	1.0	10.0	10.0	18.0	20.0	20.0	10.0
20	7.0	5.0	3.0	5.0	5.0	5.0	10.0	11.0	18.0	20.0	20.0	11.0
21	10.0	5.0	1.0	3.0	5.0	4.0	10.0	11.0	19.0	20.0	20.0	12.0
22	10.0	5.0	3.0	1.0	0.0	4.0	10.0	15.0	20.0	20.0	20.0	10.0
23	9.0	0.0	1.0	1.0	0.0	2.0	8.0	10.0	20.0	20.0	20.0	10.0
24	10.0	1.0	3.0	3.0	2.0	2.0	10.0	10.0	20.0	20.0	20.0	10.0
25	10.0	7.0	3.0	3.0	2.0	2.0	10.0	10.0	20.0	20.0	19.0	10.0
26	7.0	6.0	4.0	1.5	1.0	4.0	6.0	13.0	20.0	19.0	20.0	10.0
27	7.0	5.0	4.0	3.0	3.0	5.0	5.0	13.0	20.0	20.0	20.0	10.0
28	5.0	5.0	1.0	3.0	1.0	5.0	5.0	14.0	20.0	19.0	20.0	13.0
29	5.0	5.0	1.5	4.0	---	5.0	5.0	15.0	20.0	19.0	20.0	10.0
30	5.0	5.0	2.0	2.0	---	8.0	10.0	10.0	19.0	19.0	20.0	10.0
31	7.0	---	3.0	3.0	---	8.0	---	11.0	---	20.0	20.0	---
MONTH	8.0	5.5	3.0	2.0	2.0	4.0	8.0	11.0	17.0	19.0	20.0	13.5

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDE D SEDI- MENT (MG/L)	SUS- PENDE D SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
JUNE											
09...	1245	13.0	8430		609 13900	18	19	23	90	99	100

PLATTE RIVER BASIN

31

06677500 HORSE CREEK NEAR LYMAN, NEBR.

LOCATION.--Lat 41°56'21", long 103°59'13", in SE 1/4 sec.25, T.23 N., R.58 W., Scotts Bluff County, at gaging station at county highway bridge 1.8 miles upstream from mouth, 2.2 miles downstream from Owl Creek, and 3.2 miles northeast of Lyman.

DRAINAGE AREA.--1,570 sq mi, approximately, of which about 40 sq mi is noncontributing.

PERIOD OF RECORD.--Chemical analyses: July 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	SODIUM (NA) (MG/L)	PO-TASIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	ALKALINITY AS CaCO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	NITRATE (N) (MG/L)
OCT. 23...	62	45	44	14	280	13	503	412	310	36	.9	2.8

DATE	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)
OCT. 23...	.07	290	1020	1010	1.39	170	0	9.4	1420	8.2	3

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT. 02...	195	1100	7.9	14.5	45	8.8
16...	70	1510	7.9	9.5	20	10.4
23...	62	1480	7.6	9.0	20	10.9
30...	56	1520	--	8.0	20	11.9
NOV. 06...	45	1530	7.6	7.0	20	12.8
13...	42	1550	7.8	7.5	20	12.5
20...	42	1480	7.5	7.5	20	12.7
27...	42	1660	7.6	7.0	15	12.0
DEC. 04...	34	1620	8.1	6.0	15	12.6
08...	35	1600	7.9	9.0	20	11.6
15...	33	1580	8.1	4.5	15	14.7
22...	25	1550	8.2	2.5	10	14.7
29...	26	1520	7.6	1.0	15	15.0
JAN. 18...	25	1500	7.4	4.0	35	14.6
FEB. 23...	20	1670	8.1	1.5	30	14.6
MAR. 23...	86	1620	7.8	3.5	15	14.8
APR. 15...	18	1650	7.9	14.0	15	12.0
MAY 28...	80	1340	8.0	15.0	45	12.6
JUNE 18...	340	--	8.1	21.0	40	10.8
JULY 02...	320	450	7.9	17.0	250	9.7
09...	360	630	8.3	22.0	120	10.8
16...	127	1140	8.4	26.0	100	9.4
23...	75	1200	8.2	25.0	80	8.2
30...	86	1100	8.3	22.0	90	9.3
AUG. 06...	95	1340	8.1	25.0	60	9.7
13...	73	1480	8.1	27.0	55	8.8
20...	75	1500	8.2	24.0	45	10.6
27...	79	1350	8.1	24.0	40	9.4
SEP. 03...	107	1360	8.3	21.0	35	10.0
10...	339	1060	8.2	21.0	65	9.6
17...	325	755	8.1	11.0	30	11.0
24...	536	830	8.4	16.0	35	9.8

PLATTE RIVER BASIN

06678000 SHEEP CREEK NEAR MORRILL, NEBR.

LOCATION.--Lat 41°57'50", long 103°56'20", in NW 1/4 sec.16, T.23 N., R.57 W., Scotts Bluff County, at gaging station at Burlington Northern Inc. bridge 50 ft downstream from bridge on U.S. Highway 26, 1 mile west of Morrill, and 1.5 miles upstream from mouth.

DRAINAGE AREA.--362 sq mi, of which about 25 sq mi is noncontributing.

PERIOD OF RECORD.--Chemical analyses: July 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	ALKA- LINITY AS CACO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
OCT. 23...	111	15	79	20	65	12	262	215	190	16	.6	--
SEP. 03...	6.0	55	79	21	77	11	277	227	190	14	1.0	2.3
DATE	NITRATE (N) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)
OCT. 23...	2.6	.02	90	591	534	.80	280	64	1.7	768	8.1	7
SEP. 03...	--	.07	90	--	594	.81	280	56	2.0	796	7.8	10

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT.						
02...	130	828	7.5	10.5	25	9.6
16...	154	832	7.4	8.0	20	10.3
23...	111	822	7.8	10.5	25	9.8
30...	114	808	--	9.0	20	10.5
NOV.						
06...	104	834	7.4	13.0	20	11.6
13...	86	820	7.5	9.0	20	10.5
20...	104	820	7.7	8.5	15	10.5
27...	102	800	7.7	7.5	25	10.8
DEC.						
04...	96	805	7.6	7.0	20	11.1
08...	108	822	7.6	9.0	25	10.3
15...	96	788	7.6	8.0	45	12.1
22...	91	800	7.6	6.5	30	11.8
29...	88	862	7.5	9.0	25	13.0
JAN.						
18...	76	785	7.5	8.0	50	11.7
FEB.						
23...	82	780	7.5	5.5	90	12.0
MAR.						
23...	86	905	7.2	5.5	10	12.0
APR.						
15...	75	820	8.2	17.0	10	10.2
MAY						
28...	74	990	8.6	21.0	10	11.8
JUNE						
18...	79	--	8.2	24.0	10	10.6
JULY						
02...	2.6	1080	8.5	24.0	15	11.6
09...	3.0	730	8.1	14.0	10	11.8
16...	3.0	1000	8.0	--	10	11.6
23...	7.0	980	7.9	16.0	10	10.0
30...	7.0	740	7.9	13.0	10	10.6
AUG.						
06...	6.0	800	7.8	16.0	10	10.1
13...	6.0	890	7.9	16.0	10	10.0
20...	7.0	890	7.9	16.0	10	10.5
27...	6.0	600	7.9	16.0	10	9.9
SEP.						
03...	6.0	895	8.0	14.0	10	10.6
10...	6.0	880	7.9	13.0	5	10.1
17...	6.0	720	7.5	9.0	5	11.5
24...	126	805	7.8	9.0	15	10.8

PLATTE RIVER BASIN

33

06685000 PUMPKIN CREEK NEAR BRIDGEPORT, NEBR.

LOCATION.--Lat 41°37'38", long 103°02'10", in SW₁ sec.12, T.19 N., R.50 W., Morrill County, at gaging station at bridge on U.S. Highway 385 and State Highway 92, 0.5 mile upstream from mouth and 4 miles southeast of Bridgeport.

DRAINAGE AREA.--1,020 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: July 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO ₃) (MG/L)	ALKA-LINITY AS CaCO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
OCT. 28...	18	53	57	12	40	9.5	279	229	37	9.2	.7	--
SEP. 01...	30	43	64	16	62	10	295	242	110	19	.8	2.1
DATE	NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 28...	2.2	.08	50	377	366	.51	190	0	1.3	500	8.3	9
SEP. 01...	--	.07	130	--	479	.65	230	0	1.8	666	8.1	20

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT. 01...	29	760	7.9	14.5	25	9.1
06...	12	540	7.7	17.5	11	11.0
14...	15	460	7.3	11.5	20	10.8
21...	17	500	7.6	18.5	11	9.6
28...	19	510	--	11.5	20	11.5
NOV. 05...	22	570	8.4	14.5	10	11.8
10...	24	575	--	10.5	20	14.3
18...	21	505	8.1	12.5	15	14.9
25...	21	510	7.8	10.5	20	13.2
DEC. 02...	20	560	7.9	7.5	20	15.0
11...	20	530	7.8	4.0	10	13.4
17...	20	640	7.8	6.0	10	15.2
23...	20	660	8.2	4.0	10	13.3
30...	21	570	8.2	5.0	10	10.1
JAN. 25...	22	575	8.0	6.0	15	14.3
FEB. 16...	18	620	8.0	9.0	15	12.8
MAR. 16...	22	580	8.2	9.0	--	12.4
APR. 19...	18	550	7.5	14.0	20	8.6
MAY 21...	22	770	8.0	20.0	35	10.2
JUNE 14...	45	710	7.7	25.0	45	9.8
JULY 08...	35	645	8.1	22.0	60	9.5
13...	18	632	8.3	26.0	75	8.0
22...	3.0	535	8.2	18.5	35	8.6
28...	4.0	5650	8.5	27.0	40	9.1
AUG. 04...	3.0	660	8.2	28.0	35	9.2
11...	3.0	565	8.2	32.0	40	8.6
18...	2.9	505	8.2	30.0	40	8.2
25...	2.7	505	7.9	29.0	30	8.6
SEP. 01...	31	860	8.2	26.0	30	9.0
08...	29	845	8.3	17.0	30	10.1
15...	40	795	8.3	18.0	30	10.8
22...	36	735	8.2	14.0	25	10.8
29...	36	770	8.4	14.0	25	11.2

PLATTE RIVER BASIN

06686000 NORTH PLATTE RIVER AT LISCO, NEBR.

LOCATION.--Lat 41°29'18", long 102°37'25", in NW¹SE¹ sec.33, T.18 N., R.46 W., Garden County, at gaging station at highway bridge 0.5 mile south of Lisco.

DRAINAGE AREA.--30,700 sq mi, approximately.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED ALUM- INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN- GANESE (MN) (UG/L)	DIS-SOLVED CAL- CIUM (CA) (MG/L)	DIS-SOLVED MAG- NESIUM (MG)	SODIUM (NA) (MG/L)	PO-TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)
OCT. 28...	1960	42	--	--	--	83	20	100	12	317
NOV. 25...	1550	42	--	--	--	84	18	94	12	315
DEC. 17...	1430	42	--	140	55	80	20	98	13	317
JAN. 25...	1900	39	--	--	--	83	20	92	13	323
FEB. 16...	1350	41	--	--	--	84	18	92	12	308
MAR. 16...	950	42	--	--	--	85	19	92	11	319
APR. 19...	2920	22	--	--	--	77	21	78	8.3	257
MAY 21...	7480	13	--	--	--	64	18	62	7.0	220
JUNE 14...	9600	14	600	--	--	61	19	62	6.7	231
JULY 14...	3700	23	--	--	--	67	19	55	7.0	241
AUG. 18...	625	40	300	130	10	78	20	82	9.6	290
SEP. 22...	2150	36	--	--	--	73	19	79	8.6	276

DATE	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	DIS-SOLVED- PHOS- PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT. 28...	--	.00	1.9	.03	100	653	651	.89	3460
NOV. 25...	--	.03	3.0	.05	140	668	642	.91	2800
DEC. 17...	--	.02	2.5	.12	160	670	647	.91	2590
JAN. 25...	--	.01	2.4	--	190	665	650	.90	3410
FEB. 16...	--	.00	2.7	.08	160	645	639	.88	2350
MAR. 16...	--	.01	.2	.08	180	660	634	.90	1690
APR. 19...	--	.00	1.0	.01	120	590	567	.80	4650
MAY 21...	--	.00	.00	.01	100	482	458	.66	9730
JUNE 14...	.12	.16	.1	.05	90	--	462	.63	12000
JULY 14...	.75	.12	.7	.09	120	--	472	.64	4720
AUG. 18...	1.2	.07	1.2	.10	130	--	573	.78	967
SEP. 22...	1.6	.19	1.6	.10	190	--	558	.76	3240

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL- LIUM (BE) (UG/L)	DIS-SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)
AUG. 18...	10	100	0	1	1	0	0	8	28

PLATTE RIVER BASIN

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06686000 NORTH PLATTE RIVER AT LISCO, NEBR.--Continued

PERIOD OF RECORD.--Chemical analyses: March 1970 to September 1971.

Water temperatures: October 1970 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 1,100 micromhos Jan. 6; minimum daily, 578 micromhos Dec. 30.

Water temperatures: Minimum, freezing point on several days during December and January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CACO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	NITRITE (N) (MG/L)
OCT.									
28...	0	260	210	23	.7	--	--	--	.010
NOV.									
25...	0	258	200	21	.6	.74	--	--	.010
DEC.									
17...	0	260	200	22	.6	1.3	--	--	.010
JAN.									
25...	0	265	210	23	.5	1.2	--	--	.020
FEB.									
16...	0	253	210	22	.4	.68	--	--	.020
MAR.									
16...	0	261	200	23	.5	.70	--	--	.020
APR.									
19...	0	211	210	18	.5	1.3	--	--	.030
MAY									
21...	0	180	170	16	.5	.17	--	--	.010
JUNE									
14...	0	189	170	14	.5	.43	--	--	.000
JULY									
14...	0	198	160	18	.6	--	--	--	.000
AUG.									
18...	0	238	170	23	.3	.62	1.9	.69	.000
SEP.									
22...	0	226	180	19	.6	.35	2.1	.54	.000

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT.									
28...	290	30	2.6	920	8.3	8	1.4	--	.00
NOV.									
25...	280	23	2.4	944	8.1	7	1.4	--	.03
DEC.									
17...	280	23	2.5	937	8.1	2	2.0	--	.00
JAN.									
25...	290	23	2.4	903	8.3	3	4.9	--	.03
FEB.									
16...	280	29	2.4	934	8.2	--	1.2	--	.00
MAR.									
16...	290	27	2.4	904	7.8	1	1.2	--	.00
APR.									
19...	280	68	2.0	826	8.3	23	3.1	--	.18
MAY									
21...	230	52	1.8	698	8.2	25	1.3	--	.00
JUNE									
14...	230	41	1.8	676	8.0	30	1.9	--	.00
JULY									
14...	250	48	1.5	713	8.0	40	2.6	--	.00
AUG.									
18...	280	39	2.1	824	8.2	10	7.7	.00	.00
SEP.									
22...	260	34	2.1	847	8.0	--	2.3	--	.00

DATE	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED MOLY- BDENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
AUG.								
18...	1.0	0	6	0	0	860	7.5	50

06686000 NORTH PLATTE RIVER AT LISCO, NEBR.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT.						
01...	1950	900	7.8	12.0	30	8.2
06...	1780	985	7.6	14.5	15	8.9
14...	2210	1030	7.4	10.5	25	9.8
21...	2050	910	7.4	13.0	20	11.2
28...	1960	970	--	10.5	10	11.1
NOV.						
05...	1820	900	8.0	9.5	20	11.1
10...	1800	980	--	9.5	10	11.0
18...	1670	1000	7.8	11.5	15	13.1
25...	1550	1100	7.5	11.5	10	13.9
DEC.						
02...	1550	910	7.9	5.0	10	15.2
11...	1480	900	8.1	2.0	10	15.0
17...	1430	1100	8.1	6.0	30	13.7
23...	1600	1120	8.1	1.0	15	12.6
30...	1050	1040	7.9	2.0	10	14.7
JAN.						
25...	1900	1150	7.7	4.0	10	13.1
FEB.						
16...	1350	1230	7.7	7.0	15	11.9
MAR.						
16...	950	1100	8.2	7.0	--	12.3
APR.						
19...	2920	850	7.8	13.0	25	8.7
MAY						
21...	7480	820	7.4	16.0	25	8.2
JUNE						
14...	9600	810	7.6	23.0	25	9.1
JULY						
07...	4140	650	7.8	22.0	65	7.2
14...	3700	700	8.1	24.0	70	7.5
21...	1270	820	8.2	23.0	40	7.7
28...	1460	780	8.4	22.0	35	8.7
AUG.						
04...	1290	1020	8.1	25.0	35	8.3
11...	725	860	8.2	25.0	45	8.1
18...	625	830	8.1	25.0	25	8.6
25...	560	910	8.0	21.0	25	9.2
SEP.						
01...	937	1020	8.1	24.0	30	8.2
08...	1530	910	8.1	16.0	30	9.0
15...	1660	850	8.1	16.0	25	9.2
22...	2150	810	8.0	8.0	50	10.5
29...	2390	875	8.2	14.0	30	9.7

PLATTE RIVER BASIN

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06686000 NORTH PLATTE RIVER AT LISCO, NEBR.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	896	907	914	827	929	823	748	820	715	630	824	835
2	903	909	906	882	932	902	745	810	714	638	824	843
3	908	895	904	937	935	919	767	764	713	638	832	835
4	900	892	899	991	938	899	810	788	692	638	804	829
5	905	909	894	1040	941	885	794	714	661	638	828	835
6	925	897	899	1100	944	877	800	759	658	639	838	829
7	908	907	890	1030	946	869	834	750	652	639	824	835
8	908	916	611	1060	940	871	814	795	671	639	830	825
9	884	916	900	1030	943	871	812	789	655	640	830	827
10	908	907	900	1020	874	894	810	711	655	640	826	827
11	944	902	911	974	885	887	812	739	652	640	824	827
12	949	914	902	976	878	886	816	692	651	640	826	829
13	946	907	897	971	883	885	820	685	643	680	818	835
14	938	909	919	964	895	902	818	664	668	720	840	835
15	918	909	887	959	888	880	816	664	668	770	816	831
16	925	909	904	954	867	899	814	667	671	830	736	817
17	918	914	909	949	876	902	824	643	665	827	832	829
18	913	924	911	944	883	883	814	615	661	824	806	827
19	908	909	848	939	888	887	832	677	665	829	828	828
20	920	907	919	934	890	890	853	676	672	834	818	682
21	910	909	916	929	895	876	842	689	676	840	818	806
22	910	912	887	924	885	862	836	691	665	840	824	814
23	913	950	934	919	888	862	855	693	665	840	828	834
24	910	912	939	914	905	862	859	695	671	836	828	834
25	918	914	890	919	915	862	848	708	688	834	818	826
26	908	914	841	916	925	843	842	719	689	832	824	822
27	910	912	845	914	907	874	862	718	700	830	832	826
28	913	912	740	917	925	911	862	717	700	828	804	828
29	913	902	634	920	---	885	846	716	660	826	806	828
30	908	907	578	923	---	887	800	716	692	824	721	832
31	905	---	772	926	---	892	---	715	---	824	834	---
MONTH	914	910	861	955	907	853	820	716	674	746	817	817

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	5.0	4.0	0.0	1.0	1.0	9.0	15.0	18.0	22.0	---	24.0
2	13.0	6.0	4.0	0.0	1.0	4.0	7.0	15.0	18.0	18.0	22.0	22.0
3	14.0	6.0	4.0	0.0	1.0	1.0	9.0	15.0	18.0	---	21.0	20.0
4	12.0	5.0	4.0	0.0	1.0	4.0	7.0	12.0	20.0	---	20.0	20.0
5	14.0	5.0	5.0	0.0	1.0	4.0	8.0	10.0	18.0	---	25.0	15.0
6	13.0	5.0	4.0	0.0	1.0	4.0	7.0	9.0	17.0	---	25.0	18.0
7	10.0	6.0	4.0	1.0	1.0	5.0	12.0	11.0	22.0	---	25.0	21.0
8	7.0	6.0	4.0	1.0	1.0	5.0	10.0	12.0	20.0	---	24.0	17.0
9	8.0	7.0	3.0	1.0	1.0	5.0	9.0	13.0	20.0	---	25.0	15.0
10	9.0	6.0	3.0	1.0	1.0	5.0	11.0	13.0	20.0	---	25.0	24.0
11	9.0	7.0	2.0	1.0	3.0	5.0	10.0	13.0	20.0	---	25.0	24.0
12	10.0	7.0	1.0	1.0	10.0	5.0	10.0	15.0	22.0	---	27.0	24.0
13	11.0	7.0	1.0	1.0	8.0	5.0	11.0	20.0	21.0	---	27.0	18.0
14	11.0	6.0	1.0	1.0	7.0	5.0	11.0	20.0	22.0	---	26.0	15.0
15	10.0	5.0	2.0	1.0	7.0	5.0	16.0	18.0	24.0	---	26.0	15.0
16	9.0	5.0	3.0	1.0	7.0	5.0	15.0	15.0	27.0	---	26.0	13.0
17	10.0	6.0	2.0	1.0	5.0	4.0	12.0	16.0	25.0	---	25.0	13.0
18	12.0	6.0	2.0	1.0	4.0	4.0	12.0	15.0	25.0	---	28.0	14.0
19	13.0	5.0	1.0	1.0	4.0	5.0	12.0	15.0	26.0	---	23.0	13.0
20	14.0	5.0	1.0	1.0	3.0	7.0	11.0	17.0	26.0	---	27.0	13.0
21	14.0	5.0	0.0	1.0	3.0	7.0	11.0	19.0	26.0	---	28.0	13.0
22	13.0	2.0	0.0	1.0	3.0	7.0	11.0	16.0	27.0	---	28.0	14.0
23	13.0	1.0	0.0	1.0	3.0	8.0	10.0	14.0	28.0	---	27.0	14.0
24	12.0	3.0	0.0	3.0	2.0	9.0	10.0	12.0	24.0	---	26.0	15.0
25	11.0	4.0	0.0	4.0	2.0	10.0	8.0	14.0	24.0	---	26.0	15.0
26	9.0	4.0	0.0	1.0	1.0	12.0	6.0	17.0	25.0	---	26.0	15.0
27	5.0	4.0	0.0	1.0	1.0	13.0	6.0	17.0	25.0	---	20.0	15.0
28	7.0	4.0	0.0	1.0	1.0	12.0	6.0	17.0	25.0	---	24.0	15.0
29	5.0	4.0	0.0	1.0	---	7.0	15.0	17.0	25.0	---	25.0	15.0
30	5.0	4.0	0.0	1.0	---	10.0	15.0	18.0	26.0	---	25.0	16.0
31	4.0	---	0.0	1.0	---	11.0	---	18.0	---	---	26.0	---
MONTH	10.5	5.0	2.0	1.0	3.0	6.5	10.0	15.0	23.0	---	25.0	17.0

PLATTE RIVER BASIN

06764000 SOUTH PLATTE RIVER AT JULESBURG, COLO.
(Irrigation network station)

LOCATION.--Lat 40°58'46", long 102°15'15", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ and SE $\frac{1}{4}$ NE $\frac{1}{4}$ (two channels) sec.33, T.12 N., R.44 W., Sedgwick County, at gaging station at bridge on U.S. Highway 385, 0.9 mile southeast of Julesburg, 3 miles upstream from Colorado-Nebraska State line, and 8 miles downstream from Lodgepole Creek.

DRAINAGE AREA.--23,138 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1945 to September 1971.
Water temperatures: October 1945 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 3,270 micromhos Jan. 12; minimum daily, 976 micromhos May 22.
Water temperatures: Maximum, 21.0°C Aug. 22, 23; minimum, freezing point on many days during December to March.

Period of record:

Specific conductance: Maximum daily, 3,270 micromhos Jan. 12, 1971; minimum daily, 348 micromhos Aug. 15, 1968.
Water temperatures: Maximum (1946-49, 1950-71), 34°C July 28, Aug. 1, 1953, July 7, 18, 1963; minimum, freezing point on many days during winter period.

REMARKS.--Samples for specific conductance and temperature collected from channel no. 2 (sta 06763990). For monthly chemical analyses considered applicable to this site, see record for South Platte River near Julesburg, Colo. (sta 06764200).

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1720	2010	1880	1810	1770	1850	1840	1100	1280	1570	1730	1820
2	1800	2000	1860	1800	1760	1840	1830	1090	1220	1600	1750	1890
3	1820	2000	1860	1950	1770	1850	1810	1120	1110	1580	1750	1860
4	1840	2000	1880	2000	1800	1830	1810	1190	1070	1660	1760	1860
5	1860	1990	1900	2100	1790	1790	1810	1190	1140	1640	1770	1860
6	1870	1980	1880	2100	1820	1750	1820	1190	1230	1580	1760	1860
7	1900	1960	1910	2130	1860	1790	1820	1130	1320	1610	1780	1840
8	1900	1840	1880	2170	1660	1820	1840	1100	1410	1590	1800	1910
9	1920	1810	1900	2170	1800	1820	1890	1060	1360	1580	1810	1900
10	1920	1830	1880	2950	1800	1820	1890	1040	1440	1530	1800	1910
11	1950	1870	1920	2140	1770	1820	1890	1110	1490	1560	1800	1910
12	1960	1870	1910	3270	1780	1810	1890	1150	1510	1650	1800	1930
13	1980	1900	1880	2160	1780	1840	1890	1180	1530	1650	1810	1910
14	1960	1870	1690	2020	1770	1830	1890	1130	1480	1670	1810	1930
15	1960	1880	1810	2060	1770	1820	1890	1100	1490	1670	1830	1930
16	1950	1900	1810	1850	1770	1820	1900	1100	1530	1690	1780	1830
17	1960	1860	1780	1780	1770	1840	1890	1100	1530	1690	1840	1820
18	1970	1830	1800	1760	1780	1780	1910	1100	1490	1710	1840	1830
19	1970	1800	1600	1690	1750	1830	1770	1070	1460	1710	1840	1840
20	1970	1810	1880	1680	1800	1800	1890	1030	1440	1720	1830	1850
21	1980	1840	1650	1620	1780	1790	1900	985	1290	1720	1850	1830
22	1990	1840	1810	1630	1770	1810	1910	976	1040	1720	1830	1610
23	1980	1720	1630	1620	1790	1800	1840	997	1000	1720	1860	1580
24	1990	1870	1540	1670	1790	1740	2070	1030	1030	1740	1840	1680
25	1990	1870	1970	1670	1790	1740	1920	1100	1090	1740	1870	1720
26	1960	1790	1880	1650	1790	1800	1850	1120	1190	1730	1810	1750
27	1970	1900	1920	1680	1780	1840	1470	1100	1340	1740	1880	1750
28	1980	1880	1580	1730	1840	1830	1450	1120	1460	1740	1880	1790
29	2020	1790	1830	1760	---	1820	1440	1210	1440	1730	1880	1820
30	1990	1880	1810	1760	---	1810	1180	1240	1530	1760	1810	1820
31	1990	---	1840	1770	---	1830	---	1330	---	1770	1840	---
MONTH	1940	1880	1820	1940	1780	1810	1810	1110	1330	1670	1810	1830

06764000 SOUTH PLATTE RIVER AT JULESBURG, COLO.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	4.5	4.5	1.0	1.0	3.5	6.5	10.0	8.0	11.0	10.0	11.0
2	12.0	3.5	2.0	0.0	0.0	2.0	12.0	4.5	9.0	14.5	14.5	12.0
3	14.5	2.0	3.5	0.0	1.0	1.0	10.0	5.5	10.0	10.0	9.0	15.5
4	13.5	3.5	1.0	0.0	0.0	4.5	6.5	5.5	9.0	13.5	8.0	10.0
5	13.5	3.5	1.0	0.0	0.0	4.5	5.5	4.5	8.0	11.0	8.0	15.5
6	13.5	4.5	4.5	0.0	0.0	4.5	12.0	2.0	10.0	11.0	8.0	20.0
7	9.0	10.0	3.5	1.0	0.0	0.0	9.0	2.0	6.5	12.0	6.5	14.5
8	4.5	5.5	2.0	0.0	0.0	0.0	14.5	4.5	9.0	8.0	8.0	5.5
9	5.5	4.5	3.5	0.0	1.0	8.0	15.5	4.5	8.0	10.0	8.0	11.0
10	8.0	4.5	1.0	0.0	4.0	8.0	11.0	4.5	8.0	9.0	14.5	5.5
11	8.0	9.0	1.0	0.0	3.5	6.5	10.0	1.0	8.0	15.5	9.0	8.0
12	6.5	6.5	1.0	0.0	2.0	4.5	12.0	2.0	10.0	11.0	10.0	10.0
13	10.0	8.0	0.0	0.0	4.0	8.0	15.5	4.5	9.0	10.0	10.0	4.5
14	9.0	4.5	0.0	0.0	5.5	2.0	11.0	4.5	8.0	10.0	18.0	4.5
15	5.5	2.0	2.0	0.0	5.5	3.5	18.0	4.5	5.5	13.5	9.0	4.5
16	4.5	3.5	0.0	1.0	4.5	4.5	14.5	10.0	5.5	10.0	10.0	4.5
17	12.0	4.5	1.0	0.0	3.5	10.0	15.5	9.0	10.0	11.0	10.0	3.5
18	8.0	8.0	1.0	1.0	4.5	4.5	15.5	4.5	10.0	13.5	11.0	9.0
19	10.0	8.0	0.0	0.0	4.5	1.0	13.5	2.0	12.0	8.0	10.0	9.0
20	9.0	2.0	0.0	1.0	3.5	4.5	13.5	4.5	12.0	9.0	10.0	4.5
21	10.0	4.5	0.0	1.0	1.0	5.5	15.5	10.0	11.0	10.0	9.0	13.5
22	10.0	3.5	0.0	1.0	0.0	4.5	10.0	8.0	14.5	9.0	21.0	10.0
23	10.0	0.5	0.0	1.0	0.0	2.0	9.0	5.5	12.0	9.0	21.0	6.5
24	9.0	2.0	0.0	1.0	0.0	1.0	13.5	4.5	14.5	9.0	9.0	10.0
25	9.0	4.5	0.0	0.0	5.5	1.0	10.0	5.5	14.5	10.0	10.0	12.0
26	5.5	4.5	0.0	2.0	3.5	12.0	4.5	5.5	13.5	6.5	12.0	11.0
27	5.5	4.5	1.0	0.0	0.0	14.5	6.5	5.5	11.0	8.0	10.0	12.0
28	6.5	4.5	0.0	4.5	0.0	4.5	9.0	5.5	10.0	8.0	15.5	13.5
29	9.5	3.5	1.0	2.0	---	9.0	11.0	6.5	9.0	6.5	11.0	11.0
30	12.0	4.5	1.0	4.5	---	8.0	3.5	6.5	10.0	4.5	11.0	13.5
31	4.5	---	0.0	1.0	---	15.5	---	5.5	---	6.5	10.0	---
MONTH	9.0	4.5	1.0	1.0	2.0	5.0	11.0	5.5	10.0	10.0	11.0	10.0

06764200 SOUTH PLATTE RIVER NEAR JULESBURG, COLO.

LOCATION.--Lat 41°00'59", long 102°10'34", in SE1/4 sec.13, T.12 N., R.43 W., Deuel County, Nebr., at diversion to Western Canal about 1.7 miles downstream from Colorado-Nebraska State line, 4.7 miles downstream from gaging station at Julesburg, and about 6 miles northeast of Julesburg.

DRAINAGE AREA.--23,200 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 30...	390	27	140	77	200	63	203	18	323
NOV. 30...	606	--	--	--	190	54	--	15	--
DEC. 30...	622	--	--	--	180	60	--	--	--
JAN. 29...	1240	--	--	--	170	58	--	--	--
FEB. 26...	966	21	140	60	170	47	177	14	310
MAR. 31...	918	--	--	--	180	54	--	--	--
APR. 29...	1870	17	90	42	130	47	140	12	240
MAY 27...	2330	--	--	--	100	37	--	--	--
JUNE 29...	222	46	160	140	190	44	140	24	254
JULY 30...	35	--	--	--	120	51	--	--	--
AUG. 31...	20	27	10	600	180	52	160	16	195
SEP. 30...	580	--	--	--	130	33	--	--	--

PLATTE RIVER BASIN

06764200 SOUTH PLATTE RIVER NEAR JULESBURG, COLO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT. 30...	0	265	780	79	.9	--	.80	.02	.19
NOV. 30...	--	--	700	69	--	--	2.0	.15	.53
DEC. 30...	--	--	650	70	--	--	2.9	.24	.49
JAN. 29...	--	--	640	76	--	--	4.0	.29	1.3
FEB. 26...	0	255	650	76	.9	--	4.7	.10	.87
MAR. 31...	--	--	530	78	--	--	5.1	.05	.63
APR. 29...	0	197	510	60	.9	--	3.0	.02	1.3
MAY 27...	--	--	360	39	--	--	2.2	.06	.72
JUNE 29...	0	208	690	66	.7	4.7	--	.04	.05
JULY 30...	--	--	680	85	--	1.1	--	.38	.25
AUG. 31...	0	160	710	88	.9	.81	--	.27	.20
SEP. 30...	--	--	580	61	--	1.8	--	.17	.35

DATE	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)
OCT. 30...	250	1620	1540	2.20	760	490	3.2	1950	8.0
NOV. 30...	--	1470	--	2.00	700	--	--	1810	--
DEC. 30...	--	1370	--	1.86	700	--	--	1490	--
JAN. 29...	--	1370	--	1.86	660	--	--	1700	--
FEB. 26...	320	1400	1330	1.90	630	370	3.1	1860	8.1
MAR. 31...	--	1410	--	1.92	660	--	--	1770	--
APR. 29...	250	1100	1050	1.50	500	310	2.7	1380	8.0
MAY 27...	--	810	--	1.10	400	--	--	1070	--
JUNE 29...	240	--	1350	1.84	660	450	2.4	1850	8.0
JULY 30...	--	1370	--	1.86	510	--	--	1740	--
AUG. 31...	250	1370	--	1.86	660	500	2.7	1760	7.9
SEP. 30...	--	1230	--	1.67	540	--	--	1670	--

06765700 SUPPLY CANAL (TRI-COUNTY DIVERSION) NEAR MAXWELL, NEBR.
(Irrigation network station)

LOCATION.--Lat 41°03'50", long 100°38'50", in sec.28, T.13 N., R.29 W., Lincoln County, at gaging station at Parshall flume near Maxwell.

PERIOD OF RECORD.--Chemical analyses: March 1951 to September 1971.
Water temperatures: March 1951 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 1,320 micromhos Apr. 27, 29, May 1; minimum daily, 511 micromhos Aug. 23.

Water temperatures: Maximum, 26.5°C June 29; minimum, freezing point on many days during November to February.

Period of record:

Specific conductance: Maximum daily, 1,680 micromhos Jan. 23, 1962; minimum daily, 403 micromhos Jan. 9, 1957.
Water temperatures: Maximum, 29°C June 13, 15, 1952, July 27, 31, 1957; minimum, freezing point on many days during winter period.

REMARKS.--Sampling dates normally identical to those of Platte River at Brady, Nebr. (sta 06766000). Records of discharge given in reports of State engineer.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)
OCT.										
01... 1850		26	--	90	0	68	22	84	14	223
19... 1450		31	--	--	--	94	28	104	13	246
NOV.										
17... 1640		--	--	--	--	--	--	--	--	236
DEC.										
16... 1960		--	--	--	--	--	--	--	--	240
JAN.										
20... 1890		27	--	80	17	88	26	93	13	254
FEB.										
26... 1990		--	--	--	--	--	--	--	--	253
MAR.										
17... 1950		--	--	--	--	--	--	--	--	253
APR.										
15... 1400		14	--	30	13	91	35	112	13	178
JUNE										
18... 2030		17	500	280	70	75	26	92	12	224
JULY										
22... 2140		--	--	--	--	--	--	--	--	215
AUG.										
10... 2110		--	--	--	--	--	--	--	--	222
SEP.										
23... 1320		25	--	20	0	61	18	71	9.8	225

PLATTE RIVER BASIN

06765700 SUPPLY CANAL (TRI-COUNTY DIVERSION) NEAR MAXWELL, NEBR.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	NITRATE (N) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT. 01...	0	183	240	28	.6	--	.3	.02	130	624
19...	0	201	330	35	.8	--	.6	.14	--	766
NOV. 17...	0	193	--	--	--	--	.5	.10	--	--
DEC. 16...	0	196	--	--	--	--	.7	.06	--	--
JAN. 20...	0	209	280	30	.7	--	.6	.05	160	741
FEB. 26...	0	208	--	--	--	--	1.5	.18	--	--
MAR. 17...	0	207	--	--	--	--	1.3	.16	--	--
APR. 15...	0	146	390	44	.6	--	.3	.02	180	814
JUNE 18...	0	184	290	29	.7	.43	--	.06	110	--
JULY 22...	0	176	--	--	--	.22	--	.04	--	--
AUG. 10...	0	182	--	--	--	.11	--	.07	--	--
SEP. 23...	0	185	170	19	.7	.33	--	.07	160	--

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHQS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)
OCT. 01...	592	.85	3120	260	77	2.3	841	8.1	--
19...	756	1.04	3000	350	150	2.4	1110	8.2	--
NOV. 17...	--	--	--	--	--	--	936	8.3	--
DEC. 16...	--	--	--	--	--	--	966	8.1	--
JAN. 20...	690	1.01	3780	330	120	2.2	1060	8.2	--
FEB. 26...	--	--	--	--	--	--	1090	8.2	--
MAR. 17...	--	--	--	--	--	--	640	8.2	--
APR. 15...	788	1.11	3080	370	230	2.5	1110	8.2	--
JUNE 18...	655	.89	3590	290	110	2.3	974	8.0	10
JULY 22...	--	--	--	--	--	--	785	8.0	--
AUG. 10...	--	--	--	--	--	--	755	7.8	--
SEP. 23...	487	.66	1740	230	42	2.1	749	8.0	20

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 01...	4	2	0	0	0	0	.0	.6	11

PLATTE RIVER BASIN

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06765700 SUPPLY CANAL (TRI-COUNTY DIVERSION) NEAR MAXWELL, NEBR.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	908	736	1000	865	1060	1090	1120	1320	962	848	534	742
2	944	713	1000	977	1030	1100	1130	1150	942	848	531	742
3	1040	713	1000	994	1000	1000	1140	1150	970	821	528	745
4	963	704	977	971	1100	997	1180	1150	973	793	531	740
5	1020	743	980	979	1030	1010	1190	1150	940	774	534	738
6	938	727	1000	936	1110	1040	1190	1140	913	806	536	738
7	952	753	983	974	1030	1120	1190	1150	921	785	534	737
8	941	689	988	962	1080	1120	1190	1160	924	783	536	745
9	974	740	991	957	1040	1120	1210	1140	918	808	533	732
10	925	726	980	946	1030	1120	1250	1060	877	821	530	733
11	974	707	1040	1086	902	1000	1250	1040	898	823	526	735
12	900	712	1010	1080	997	965	1120	1040	934	819	526	733
13	1020	824	997	1090	1070	1090	1140	1060	918	814	531	737
14	1020	751	1000	1040	1090	1090	1120	1030	918	814	531	733
15	1000	912	1000	997	1010	1090	1140	1030	913	796	520	735
16	1010	890	1010	1100	1040	1100	1270	1030	921	798	519	691
17	1020	914	1010	985	1010	1100	1270	1030	942	802	515	732
18	946	907	1010	994	1090	1090	1290	1040	945	798	518	714
19	1020	937	1010	988	1050	1090	1200	1020	942	798	516	722
20	949	883	1020	991	1030	1100	1230	1030	950	796	515	716
21	946	929	1000	1000	1060	1120	1270	988	929	796	515	713
22	882	893	994	1100	1250	1100	1250	976	929	800	515	698
23	875	1070	994	1100	1200	1100	1230	950	937	802	511	793
24	842	1070	1050	1160	1200	1110	1250	953	847	798	516	725
25	728	1000	1040	1250	1110	1110	1170	958	884	798	512	740
26	748	977	1070	1210	1110	1120	1300	976	843	791	518	858
27	731	1010	972	1250	1060	1120	1320	985	886	800	514	832
28	743	1080	1030	1240	1060	1120	1290	985	845	795	515	773
29	725	1010	1050	1200	---	1120	1320	973	891	787	515	758
30	744	1010	966	1200	---	1150	1290	982	886	770	515	740
31	725	---	966	1200	---	1120	---	976	---	774	514	---
MONTH	908	858	1000	1060	1070	1090	1220	1050	917	802	523	742

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	11.0	4.0	1.0	2.0	3.5	4.0	12.0	18.5	25.5	24.0	22.0
2	16.0	9.0	1.0	2.0	0.5	1.0	8.0	14.5	15.5	23.5	21.5	25.0
3	13.5	5.0	3.5	0.0	1.5	3.0	5.0	10.5	17.0	25.5	23.5	22.0
4	15.0	4.0	1.5	0.0	0.0	1.5	6.5	14.0	17.0	22.0	21.0	20.5
5	14.0	5.5	3.0	0.0	0.0	3.0	3.5	11.0	20.0	24.0	23.5	18.0
6	15.5	4.0	1.0	0.0	0.0	1.0	8.0	13.5	19.0	22.0	21.0	21.0
7	10.5	7.0	3.5	0.0	0.0	2.0	6.5	11.0	21.0	24.5	23.5	20.0
8	5.5	6.0	1.5	0.5	0.0	0.5	10.5	14.0	19.0	20.0	21.0	18.5
9	4.0	6.5	3.0	0.0	0.5	5.0	7.0	13.0	20.5	24.0	24.5	16.5
10	9.5	5.0	1.0	1.0	0.0	3.0	11.0	12.0	18.0	21.5	23.0	21.0
11	8.0	5.0	1.0	0.0	2.0	4.5	7.0	10.0	21.5	25.5	24.0	18.0
12	11.0	3.5	1.0	0.0	1.0	3.0	11.5	13.5	20.0	26.0	21.0	19.5
13	8.5	4.5	1.0	0.0	3.0	3.5	9.0	13.0	21.5	21.5	24.5	18.0
14	10.0	3.0	0.5	1.5	2.0	2.0	12.0	15.0	20.5	25.0	22.0	18.5
15	5.5	4.0	3.5	0.5	3.5	4.0	10.0	12.0	23.0	23.5	24.0	16.0
16	9.5	3.5	0.5	2.0	3.0	2.0	12.0	15.5	21.0	26.0	21.5	17.0
17	6.0	4.5	2.0	1.0	4.0	5.0	10.0	13.5	24.5	23.0	24.0	15.0
18	9.0	5.5	1.0	2.0	3.5	2.0	13.5	13.0	21.5	25.0	22.0	15.0
19	8.0	5.5	1.0	0.5	1.5	3.5	11.0	11.5	25.0	22.0	24.5	13.0
20	12.0	3.0	0.0	3.5	0.0	1.0	12.0	15.0	23.0	25.5	23.0	15.5
21	10.0	4.0	0.5	1.0	0.0	5.0	11.0	13.0	25.0	22.0	25.0	14.0
22	11.5	1.0	0.5	1.5	0.0	2.0	13.5	14.5	23.5	25.0	23.0	11.0
23	11.0	0.5	0.5	0.5	1.0	1.5	11.0	13.5	25.0	23.0	25.5	10.0
24	11.0	0.0	0.0	3.0	0.5	0.5	12.0	14.0	23.0	25.5	22.0	13.0
25	9.5	1.5	1.5	0.5	3.5	1.5	10.0	13.0	25.5	23.5	24.5	11.0
26	10.0	1.5	0.0	3.5	2.0	0.5	12.0	15.0	23.5	24.0	22.0	15.0
27	8.5	1.0	1.5	2.0	3.5	3.5	10.5	13.5	26.0	21.0	24.5	14.0
28	9.5	0.5	0.5	4.0	1.0	2.0	13.0	15.5	23.5	23.5	21.5	16.0
29	8.0	3.0	2.0	2.0	---	5.5	10.5	14.0	26.5	20.5	24.0	14.0
30	10.5	0.5	0.5	3.5	---	3.5	14.0	16.0	24.0	24.5	21.5	18.0
31	9.0	---	3.0	1.5	---	10.5	---	14.5	---	21.0	24.5	---
MONTH	10.0	4.0	1.5	1.5	1.5	3.0	10.0	13.5	21.5	23.5	23.0	17.0

PLATTE RIVER BASIN

06766000 PLATTE RIVER AT BRADY, NEBR.
(Irrigation network and pesticide station)

LOCATION.--Lat 41°01'10", long 100°22'16" (chan. 1), lat 40°59'22", long 100°22'39" (chan. 4), in secs.11 and 23, T.12 N., R.27 W., Lincoln County, at gaging station at highway bridges 0.5 mile and 2.5 miles, respectively, south of Brady and 18 miles downstream from confluence of North Platte and South Platte Rivers.

DRAINAGE AREA.--60,200 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: November 1950 to September 1971.
Water temperatures: March 1951 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 1,030 micromhos May 9 (chan. 1); minimum daily, 426 micromhos Jan. 5 (chan. 4).

06765980 PLATTE RIVER AT BRADY, NEBR. (CHANNEL 1)

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MANG- ANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NES- IUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)
OCT. 19...	72	32	300	70	42	55	14	56	9.7	213	0
NOV. 17...	75	--	--	--	--	--	--	--	--	212	0
DEC. 16...	70	--	--	--	--	--	--	--	--	199	0
JAN. 20...	300	36	--	110	0	58	14	50	9.4	206	0
FEB. 26...	300	--	--	--	--	--	--	--	--	178	0
MAR. 17...	117	--	--	--	--	--	--	--	--	206	0
APR. 15...	187	34	--	60	17	55	13	42	9.4	193	0
JUNE 18...	9550	21	400	110	55	64	20	72	10	254	0
JULY 22...	1810	--	--	--	--	--	--	--	--	231	0
AUG. 10...	1160	--	--	--	--	--	--	--	--	240	0
SEP. 23...	521	32	--	10	0	52	14	55	8.9	209	0

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)
OCT. 19...	418	421	.57	81.3	200	21	1.7	602	8.1	4
NOV. 17...	--	--	--	--	--	--	--	577	8.3	--
DEC. 16...	--	--	--	--	--	--	--	526	8.2	--
JAN. 20...	405	404	.55	328	200	32	1.5	589	8.1	3
FEB. 26...	--	--	--	--	--	--	--	476	8.2	--
MAR. 17...	--	--	--	--	--	--	--	503	8.0	--
APR. 15...	429	372	.58	217	190	32	1.3	566	8.3	7
JUNE 18...	--	514	.70	13300	240	34	2.0	775	7.9	20
JULY 22...	--	--	--	--	--	--	--	693	7.9	--
AUG. 10...	--	--	--	--	--	--	--	683	7.8	--
SEP. 23...	--	412	.56	580	190	16	1.7	635	8.0	20

EXTREMES.--1970-71:--Continued

Period of record:

Water temperatures: Maximum, 32°C July 19, 20, 1951 (chan. 1); minimum, freezing point on many days during winter period.

06765980 PLATTE RIVER AT BRADY, NEBR. (CHANNEL 1)

DATE	ALKALINITY AS CACO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	NITRITE (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	DIS- SOLVED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT. 19...	174	130	17	.7	.73	.010	--	.36	.00	.08	--
NOV. 17...	174	--	--	--	--	--	--	--	.2	.04	--
DEC. 16...	163	--	--	--	--	--	--	--	.5	.08	--
JAN. 20...	169	120	13	.6	--	--	--	--	.6	.08	90
FEB. 26...	146	--	--	--	--	--	--	--	.6	.10	--
MAR. 17...	169	--	--	--	--	--	--	--	.6	.07	--
APR. 15...	158	110	13	.5	--	--	--	--	.1	.02	60
JUNE 18...	208	180	20	.5	--	--	.14	--	--	.10	170
JULY 22...	189	--	--	--	--	--	.19	--	--	.07	--
AUG. 10...	197	--	--	--	--	--	.30	--	--	.10	--
SEP. 23...	171	130	15	.6	--	--	.45	--	--	.10	130

[illegible][illegible]

PLATTE RIVER BASIN

06765990 PLATTE RIVER AT BRADY, NEBR. (CHANNEL 4)

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)
OCT. 19...	43	42	200	20	0	69	20	62	15	244	0
NOV. 17...	56	--	--	--	--	--	--	--	--	255	0
DEC. 16...	63	--	--	--	--	--	--	--	--	259	0
JAN. 20...	62	45	--	50	25	77	20	57	15	260	0
FEB. 26...	93	--	--	--	--	--	--	--	--	259	0
MAR. 17...	79	--	--	--	--	--	--	--	--	258	0
APR. 15...	64	40	--	50	43	77	21	58	15	252	0
JUNE 18...	120	38	400	40	60	78	23	70	13	272	0
JULY 22...	55	--	--	--	--	--	--	--	--	255	0
AUG. 10...	38	--	--	--	--	--	--	--	--	259	0
SEP. 23...	63	45	--	20	0	81	22	65	18	266	0

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHQS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)
OCT. 19...	536	526	.73	62.5	250	53	1.7	745	8.3	5
NOV. 17...	--	--	--	--	--	--	--	769	8.3	--
DEC. 16...	--	--	--	--	--	--	--	769	8.2	--
JAN. 20...	546	536	.74	91.4	270	59	1.5	759	8.2	3
FEB. 26...	--	--	--	--	--	--	--	762	8.2	--
MAR. 17...	--	--	--	--	--	--	--	757	8.0	--
APR. 15...	548	533	.75	95.3	280	69	1.5	771	8.3	8
JUNE 18...	--	585	.80	190	290	66	1.8	880	8.0	20
JULY 22...	--	--	--	--	--	--	--	782	8.0	--
AUG. 10...	--	--	--	--	--	--	--	755	8.0	--
SEP. 23...	--	586	.80	99.7	290	75	1.7	869	7.9	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

[illegible][illegible]

PLATTE RIVER BASIN

06765980 PLATTE RIVER AT BRADY, NEBR. (CHANNEL 1)

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	656	599	591	596	743	550	545	1010	812	707	691	706
2	622	599	547	600	644	561	544	1020	792	701	691	701
3	629	588	558	680	580	528	533	997	796	695	706	704
4	638	594	545	764	545	520	503	1020	792	682	697	706
5	646	589	532	846	562	474	504	1020	798	670	697	702
6	632	591	541	968	691	509	506	1000	788	658	700	688
7	624	588	528	898	680	544	508	1020	786	686	702	688
8	602	553	520	962	691	523	517	1020	781	694	704	688
9	612	574	540	863	774	499	540	1030	776	691	707	684
10	611	574	547	812	882	491	516	931	742	700	693	681
11	608	574	617	730	481	482	514	928	753	709	694	686
12	611	575	550	785	520	474	536	939	769	707	684	686
13	606	577	562	718	448	477	528	964	769	712	686	678
14	612	582	554	735	494	477	516	967	767	716	687	688
15	604	570	549	689	507	492	520	964	764	726	689	675
16	601	573	531	643	436	513	847	958	774	724	690	654
17	601	570	513	597	560	520	1010	936	780	721	694	634
18	601	570	544	578	564	520	1020	910	776	718	687	658
19	601	568	577	561	455	521	969	895	770	715	694	662
20	591	576	576	543	530	530	851	897	764	713	690	661
21	587	566	576	525	581	478	849	885	764	712	687	595
22	591	620	554	538	668	464	997	878	764	715	691	597
23	598	674	612	534	638	480	926	850	765	713	696	618
24	604	764	670	493	555	484	856	835	764	712	700	654
25	602	587	729	464	473	487	786	857	765	714	707	652
26	549	551	719	490	527	473	716	854	765	716	710	660
27	588	561	587	483	486	466	669	850	764	713	706	669
28	589	548	562	497	592	480	767	846	764	716	707	665
29	596	550	554	507	---	494	841	832	756	712	704	656
30	594	553	573	564	---	516	898	830	731	707	697	647
31	574	---	592	654	---	527	---	821	---	709	690	---
MONTH	606	585	573	655	582	502	694	928	772	706	696	668

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	7.0	9.5	1.5	1.5	1.5	9.5	17.0	21.5	26.5	27.0	28.0
2	---	3.5	3.5	0.5	0.5	3.0	13.5	14.0	19.5	26.5	25.5	28.0
3	---	6.0	6.0	0.0	1.0	5.5	13.5	17.0	19.5	26.5	26.0	27.0
4	---	6.0	5.5	0.0	0.5	10.0	12.0	18.5	21.5	27.0	25.5	20.5
5	21.0	9.5	5.5	0.0	1.0	5.5	12.0	16.0	23.5	27.0	25.5	19.0
6	20.5	13.5	4.5	0.0	1.0	4.0	15.5	13.0	22.0	28.0	25.5	18.0
7	10.0	10.0	7.0	0.0	1.0	2.0	19.5	16.0	24.0	26.0	26.5	25.0
8	4.5	4.0	8.0	0.0	1.0	6.5	16.0	17.0	23.0	23.5	28.0	21.0
9	12.0	11.0	4.0	0.5	4.0	11.0	19.5	14.0	21.5	27.0	28.5	24.0
10	14.5	9.5	0.5	1.5	3.0	10.5	19.0	14.0	23.0	28.0	25.5	25.0
11	11.5	8.5	1.5	0.0	2.0	10.0	10.0	14.0	24.0	28.5	28.0	28.0
12	20.5	5.5	1.5	0.0	3.5	9.0	21.5	16.0	25.5	30.0	26.5	23.5
13	15.5	8.0	0.5	0.0	2.0	15.5	19.5	19.0	24.0	26.5	26.5	25.0
14	10.0	5.5	1.5	0.0	2.0	6.5	19.0	20.5	25.0	29.0	26.0	18.5
15	15.0	8.0	1.0	0.0	3.0	10.0	19.5	20.0	25.5	29.0	26.0	18.5
16	14.5	10.0	1.5	0.0	3.5	11.0	19.0	19.5	26.0	29.0	26.0	14.0
17	14.0	9.0	2.0	0.0	3.0	10.0	17.0	20.0	27.0	28.5	26.5	15.0
18	13.5	9.0	0.0	0.0	3.5	5.5	15.5	14.0	27.0	28.0	28.0	15.0
19	13.5	10.0	0.0	0.5	1.5	1.5	14.0	14.5	27.0	28.0	29.0	19.5
20	18.0	5.5	0.0	1.0	1.5	9.0	14.0	16.5	26.5	28.5	28.5	20.0
21	20.5	4.5	0.0	1.5	0.5	10.0	15.5	18.5	26.5	26.0	30.0	10.0
22	15.0	2.0	0.5	2.0	1.0	8.0	10.5	16.0	25.0	28.5	24.0	11.5
23	16.5	0.5	0.5	3.0	0.0	1.0	10.5	15.0	26.5	26.5	29.5	18.0
24	13.5	0.0	0.5	2.0	1.0	1.0	10.0	13.5	29.0	28.5	25.5	16.0
25	11.0	3.5	1.0	1.5	1.5	1.5	9.5	18.0	27.0	26.5	27.0	21.5
26	6.0	0.5	1.0	1.5	1.0	9.5	9.0	18.5	26.5	25.5	26.5	23.0
27	11.0	0.5	1.0	3.5	3.0	14.5	11.5	18.5	26.5	26.5	23.0	24.0
28	7.0	1.0	1.5	3.5	0.5	14.5	12.0	15.5	26.5	25.5	26.5	20.0
29	6.0	5.0	2.0	4.5	---	14.5	14.0	16.5	27.0	25.5	24.5	18.0
30	8.0	9.0	2.0	3.0	---	17.0	16.0	17.0	26.5	25.0	24.5	15.5
31	8.0	---	2.0	2.0	---	12.0	---	19.5	---	26.0	24.5	---
MONTH	13.0	6.0	2.5	1.0	2.0	8.0	14.5	16.5	25.0	27.0	26.5	20.5

PLATTE RIVER BASIN

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06765990 PLATTE RIVER AT BRADY, NEBR. (CHANNEL 4)

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	742	764	769	768	768	776	800	798	873	789	780	780
2	741	760	759	774	768	774	776	798	832	812	780	757
3	741	766	763	776	768	772	771	790	843	785	776	777
4	736	766	766	779	768	768	767	790	868	794	784	773
5	730	759	769	426	763	751	774	802	866	803	784	780
6	722	756	773	849	753	759	781	826	868	812	771	778
7	746	752	769	836	785	767	787	818	877	821	773	757
8	760	736	776	824	779	770	785	812	869	808	775	769
9	762	762	774	767	785	768	787	822	861	804	776	764
10	794	778	761	754	722	770	787	814	936	802	776	769
11	781	794	761	765	743	772	787	833	793	800	776	775
12	742	785	758	768	749	772	780	835	873	800	773	762
13	757	776	764	772	758	776	783	816	885	804	776	762
14	746	780	764	728	763	781	778	814	870	798	779	768
15	750	774	766	739	756	781	773	816	868	808	782	777
16	749	767	766	750	758	779	773	818	866	806	786	757
17	514	764	769	761	763	776	774	814	863	804	802	794
18	740	766	774	763	714	768	792	816	859	802	816	792
19	742	767	763	764	794	760	787	837	853	800	800	780
20	738	769	764	764	810	774	874	824	847	800	902	777
21	719	766	766	765	792	770	872	818	841	800	798	741
22	736	771	766	770	760	776	850	831	836	793	804	822
23	736	776	759	776	767	783	839	820	836	766	789	843
24	752	771	780	776	770	770	828	859	830	802	789	811
25	747	767	775	765	772	758	818	885	832	804	784	813
26	731	772	771	772	776	779	808	890	830	806	775	802
27	757	774	774	770	779	788	810	885	829	796	782	790
28	774	771	764	770	779	790	823	890	828	796	773	792
29	776	774	761	768	---	792	808	862	821	790	780	789
30	771	778	762	776	---	781	792	859	793	785	787	786
31	759	---	763	772	---	794	---	866	---	783	795	---
MONTH	742	769	767	762	767	774	799	831	852	799	785	781

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	6.5	10.0	5.0	4.0	3.5	10.5	20.0	24.0	29.0	28.5	29.0
2	---	6.0	6.5	3.0	4.5	5.5	13.5	14.5	21.0	28.5	26.5	29.0
3	---	5.0	9.5	1.5	1.5	7.0	13.0	20.0	19.5	28.5	28.0	28.5
4	---	7.0	7.0	1.0	1.0	9.5	11.5	20.0	23.0	28.0	27.0	21.5
5	18.5	7.0	5.5	0.0	0.5	7.0	12.0	18.0	25.5	28.0	28.0	21.5
6	19.5	12.0	6.5	0.0	0.0	5.5	14.0	13.0	23.5	27.0	26.5	18.5
7	10.5	11.0	8.0	0.0	0.0	4.5	16.0	19.5	26.0	26.0	28.0	26.5
8	9.0	7.0	9.0	0.0	0.5	7.0	16.0	20.0	24.5	23.5	29.0	23.0
9	11.0	13.0	6.0	0.5	3.5	10.0	18.5	14.0	23.0	27.0	30.0	25.0
10	13.0	8.5	.0	2.0	3.0	10.0	18.5	14.5	24.5	28.0	27.0	26.5
11	13.0	4.5	3.0	0.0	4.5	10.0	11.5	17.0	25.5	28.5	29.5	25.5
12	15.5	9.0	3.5	0.0	6.5	9.5	19.5	20.0	27.0	30.5	29.0	24.0
13	14.0	6.5	1.5	0.0	7.0	14.0	18.5	22.0	25.0	27.0	29.0	28.0
14	13.0	6.5	4.0	0.0	6.5	9.0	18.5	24.0	26.5	29.5	28.5	20.5
15	13.5	9.0	3.5	1.0	9.5	10.5	19.5	23.5	28.0	30.0	28.0	16.5
16	15.0	9.5	5.0	3.0	10.0	11.0	19.5	21.0	28.0	29.5	28.0	13.5
17	13.0	10.5	6.0	5.0	9.0	9.0	18.0	22.0	29.5	29.0	28.5	12.0
18	13.0	10.0	0.0	1.0	6.0	7.0	14.5	13.5	29.0	28.5	28.0	13.0
19	13.0	10.5	0.0	2.0	3.5	6.0	14.0	17.0	28.0	28.5	29.5	19.0
20	15.5	9.0	0.5	3.5	4.0	10.5	14.0	20.5	27.0	29.5	29.5	19.5
21	15.5	6.5	1.0	5.0	2.0	12.0	17.0	20.0	28.5	26.5	29.5	13.0
22	14.0	4.0	4.0	5.5	3.0	8.0	10.0	15.0	25.5	29.0	22.0	11.5
23	15.0	1.0	0.5	6.0	6.0	3.5	10.0	15.5	29.0	25.5	30.0	17.0
24	15.0	1.0	0.5	6.0	8.0	5.0	9.5	13.0	30.0	29.0	27.0	16.0
25	12.0	7.0	1.0	6.5	9.5	6.5	9.0	21.0	29.5	28.0	29.0	20.0
26	8.5	4.0	2.0	6.5	5.5	10.0	8.5	21.0	29.5	27.0	28.0	21.0
27	10.0	4.0	3.0	8.0	6.0	14.5	14.0	20.0	29.5	28.0	24.0	22.0
28	8.5	3.5	6.0	8.5	3.0	14.5	14.0	16.0	29.5	26.5	28.5	21.0
29	8.0	6.0	7.0	8.5	---	14.0	14.5	19.0	29.0	25.5	26.0	19.5
30	9.0	9.5	7.0	4.5	---	16.5	17.0	18.5	29.0	25.0	25.5	18.5
31	9.0	---	7.0	4.5	---	12.0	---	21.0	---	28.0	25.0	---
MONTH	12.5	7.0	4.5	3.0	4.5	9.0	14.5	18.5	26.5	28.0	27.5	20.5

06768000 PLATTE RIVER NEAR OVERTON, NEBR.

LOCATION.--Lat 40°40'57", long 99°32'24" (north chan.), and lat 40°40'48", long 99°32'23" (south chan.), in sec.12, T.8 N., R.20 W., Dawson-Phelps County line, at gaging station at highway bridges 4 miles south of Overton and 4 miles downstream from Plum Creek.

DRAINAGE AREA.--61,700 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: December 1951 to September 1952, November 1958 to September 1971.
Water temperatures: November 1958 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 1,140 micromhos Feb. 14, 16 (south chan.); minimum daily, 539 micromhos Aug. 27 (north chan.).

06767998 PLATTE RIVER NEAR OVERTON, NEBR. (NORTH CHANNEL)

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SI02) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)
OCT.												
13...	1050	26	--	0	20	67	19	85	13	224	0	183
28...	1070	7.2	--	20	0	68	25	84	12	218	4	185
NOV.												
10...	824	--	--	--	--	74	20	82	--	222	6	192
23...	1160	31	--	40	--	78	16	75	13	244	2	204
DEC.												
15...	1290	--	--	--	--	79	22	75	--	254	0	209
28...	1540	34	--	0	--	81	22	76	14	263	0	215
JAN.												
13...	1650	--	--	--	--	84	23	77	--	266	0	218
27...	1670	34	0	0	39	74	21	68	13	240	0	196
FEB.												
09...	1210	--	--	--	--	79	24	77	--	262	0	215
25...	1540	35	--	0	--	76	21	64	15	249	0	204
MAR.												
10...	1650	--	--	--	--	79	19	66	--	247	0	203
22...	1570	33	--	0	58	73	20	65	12	236	0	194
APR.												
08...	1400	--	--	--	--	79	22	68	--	242	4	205
21...	2160	24	--	20	17	73	22	69	14	198	0	163
MAY												
06...	5800	--	--	--	--	86	26	95	--	239	0	196
18...	6560	15	--	50	--	85	25	86	10	246	0	202
JUNE												
09...	8260	--	--	--	--	65	20	78	--	256	0	210
22...	8380	23	290	40	40	64	20	76	11	268	0	220
JULY												
22...	322	29	--	10	85	70	22	77	12	257	0	211
AUG.												
10...	276	25	--	10	40	66	22	71	12	233	0	191
SEP.												
21...	640	25	--	20	90	63	20	74	11	234	0	192

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)
OCT.											
13...	554	.75	1570	250	63	2.4	799	8.2	16	2.1	--
28...	563	.82	1750	270	87	2.2	881	8.4	--	2.4	--
NOV.											
10...	--	.76	1240	270	76	2.2	802	8.4	--	2.9	--
23...	565	.78	1800	260	57	2.0	834	8.4	--	1.8	--
DEC.											
15...	--	--	--	290	79	1.9	873	8.1	--	2.9	--
28...	607	.84	2570	290	78	1.9	854	8.2	--	3.5	--
JAN.											
13...	--	--	--	300	84	1.9	888	8.1	--	--	--
27...	562	.78	2600	270	74	1.8	825	8.2	--	1.8	.00
FEB.											
09...	--	--	--	290	79	2.0	869	8.0	--	1.0	--
25...	572	.76	2330	280	73	1.7	801	8.1	--	2.2	--
MAR.											
10...	--	--	--	280	77	1.7	776	7.8	--	1.2	--
22...	542	.75	2340	260	69	1.7	766	8.3	--	2.7	--
APR.											
08...	--	--	--	290	80	1.8	780	8.4	--	2.4	--
21...	541	.75	3230	270	110	1.8	785	8.2	--	4.3	--
MAY											
06...	--	--	--	320	120	2.3	959	8.0	--	5.0	--
18...	619	.91	11800	320	110	2.1	881	8.2	--	1.9	--
JUNE											
09...	--	--	--	240	35	2.2	823	7.9	--	1.6	--
22...	520	.71	11800	240	22	2.1	813	8.0	20	2.9	--
JULY											
22...	551	.75	479	270	55	2.1	802	7.9	10	--	--
AUG.											
10...	533	.72	397	260	64	1.9	785	7.8	8	--	--
SEP.											
21...	523	.71	904	240	48	2.1	819	7.9	20	--	--

PLATTE RIVER BASIN

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06768000 PLATTE RIVER NEAR OVERTON, NEBR.--Continued

EXTREMES.--1970-71:--Continued

Water temperatures: Maximum, 33.5°C July 12 (north chan.); minimum, freezing point on many days during November to February.

Period of record:

Specific conductance (1958-71): Maximum daily, 1,480 micromhos May 15, 1966 (south chan.); minimum daily, 214 micromhos July 23, 1968 (south chan.).

Water temperatures: Maximum, 37°C June 13, 1959 (south chan.), July 9, 1960 (north chan.); minimum, freezing point on many days during winter period.

06767998 PLATTE RIVER NEAR OVERTON, NEBR. (NORTH CHANNEL)

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.											
13...	210	25	.6	.010	--	.06	.3	.12	.04	70	555
28...	230	26	.8	.010	--	.01	.3	.06	.03	160	604
NOV.											
10...	200	25	--	.010	--	.00	.5	.07	.04	--	558
23...	200	25	.5	.010	--	.04	.6	.23	.12	120	575
DEC.											
15...	210	25	--	.010	--	.09	.8	.12	.05	--	--
28...	220	27	.6	.020	--	.11	.8	.23	.06	90	619
JAN.											
13...	220	25	--	.010	--	.09	.9	.18	.09	--	--
27...	200	25	.6	.010	--	.10	1.0	.14	.10	130	577
FEB.											
09...	200	30	--	.060	--	.38	1.0	.17	.13	--	--
25...	190	39	.8	.020	--	.09	1.4	.19	.14	90	561
MAR.											
10...	190	24	--	.020	--	.01	.9	.11	.09	--	--
22...	190	24	.5	.020	--	.03	1.1	.08	.04	90	552
APR.											
08...	190	25	--	.010	--	.04	.7	.14	.04	--	--
21...	210	27	.6	.020	--	.00	.4	.28	.03	130	554
MAY											
06...	280	34	--	.020	--	.00	.2	.12	.06	--	--
18...	250	29	.8	.000	--	.00	.00	.11	.21	140	669
JUNE											
09...	180	21	--	.070	.15	.13	.1	.15	.10	--	--
22...	170	23	.4	.000	.00	.09	--	.15	.10	150	--
JULY											
22...	190	23	.7	--	.17	--	--	--	.06	130	--
AUG.											
10...	200	22	.6	--	.02	--	--	--	.07	120	--
SEP.											
21...	190	22	.6	--	.42	--	--	--	.08	150	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
JAN.								
27...	10	0	0	0	0	0	30	.0
FEB.								
09...	--	--	--	--	--	--	--	.2

DATE	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MOLY- BDENUM (MO) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
JAN.							
27...	--	6	4	2	770	4.8	10
FEB.							
09...	.2	--	--	--	--	--	--

PLATTE RIVER BASIN

06767999 PLATTE RIVER NEAR OVERTON, NEBR. (SOUTH CHANNEL)

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CACO ₃ (MG/L)
OCT.												
13...	895	23	--	0	15	64	21	87	12	221	0	181
28...	792	3.0	--	80	123	69	24	92	12	205	13	190
NOV.												
10...	714	--	--	--	--	70	20	77	--	222	2	186
23...	812	26	--	30	--	67	19	81	12	224	4	191
DEC.												
15...	818	--	--	--	--	79	26	91	--	233	0	191
28...	824	24	--	30	--	84	26	96	13	243	0	199
JAN.												
13...	831	--	--	--	--	86	28	100	--	252	0	207
27...	954	26	0	0	0	82	30	100	13	252	0	207
FEB.												
09...	701	--	--	--	--	98	31	108	--	256	0	210
25...	857	23	--	310	--	100	32	107	14	253	0	208
MAR.												
10...	844	--	--	--	--	97	28	102	--	248	0	203
22...	844	22	--	0	--	96	27	100	13	245	0	201
APR.												
08...	802	--	--	--	--	95	31	100	--	222	0	182
21...	688	14	--	30	--	81	32	108	13	205	0	168
MAY												
06...	2150	--	--	--	--	88	29	100	--	216	0	177
18...	2310	15	--	80	--	77	26	92	10	244	0	200
JUNE												
09...	2640	--	--	--	--	68	22	79	--	244	0	200
22...	2300	20	300	20	8	67	23	82	10	249	0	204
JULY												
22...	236	28	--	10	29	71	22	77	13	267	0	219
AUG.												
10...	205	24	--	20	20	68	23	81	12	235	0	193
SEP.												
21...	306	21	--	40	20	61	21	73	12	224	0	184

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHQS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)
OCT.											
13...	558	.75	1340	250	66	2.4	808	8.2	19	2.2	--
28...	598	.92	1440	270	80	2.4	846	8.4	--	2.0	--
NOV.											
10...	--	.76	1080	260	70	2.1	831	8.4	--	3.0	--
23...	562	.78	1260	250	56	2.2	828	8.5	--	1.9	--
DEC.											
15...	--	--	--	300	110	2.3	949	8.3	--	2.1	--
28...	693	.98	1600	320	120	2.4	991	8.3	--	1.9	--
JAN.											
13...	--	--	--	330	120	2.4	1030	8.2	--	--	--
27...	709	1.00	1890	330	120	2.4	1030	8.3	--	1.8	.00
FEB.											
09...	--	--	--	370	160	2.4	1100	8.3	--	1.6	--
25...	799	1.09	1850	380	180	2.4	1110	7.3	--	3.2	--
MAR.											
10...	--	--	--	360	150	2.4	1070	7.9	--	3.5	--
22...	747	1.03	1720	350	150	2.3	1090	8.3	--	4.5	--
APR.											
08...	--	--	--	360	180	2.3	1040	8.3	--	3.9	--
21...	737	1.09	1490	330	170	2.6	1060	8.3	--	4.3	--
MAY											
06...	--	--	--	340	160	2.4	1010	8.1	--	3.5	--
18...	623	.94	4300	300	99	2.3	871	7.9	--	1.6	--
JUNE											
09...	--	--	--	260	60	2.1	850	8.0	--	1.4	--
22...	572	.78	3550	260	58	2.2	877	7.8	20	2.4	--
JULY											
22...	557	.76	355	270	49	2.0	802	8.2	20	--	--
AUG.											
10...	558	.76	309	260	72	2.2	796	7.9	7	--	--
SEP.											
21...	523	.71	432	240	55	2.1	800	8.0	20	--	--

PLATTE RIVER BASIN

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06767999 PLATTE RIVER NEAR OVERTON, NEBR. (SOUTH CHANNEL)

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRITE (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.											
13...	220	25	.6	.020	--	.05	.2	.11	.04	100	553
28...	250	28	.6	.010	--	.00	.4	.13	.09	260	674
NOV.											
10...	200	26	--	.000	--	.01	.3	.05	.03	--	559
23...	210	25	.6	.000	--	.02	.3	.11	.04	140	575
DEC.											
15...	280	30	--	.020	--	.05	.5	.09	.01	--	--
28...	290	32	.7	.020	--	.00	.5	.06	.00	120	718
JAN.											
13...	300	32	--	.010	--	.02	.7	.08	.02	--	--
27...	300	33	.6	.010	--	.06	.7	.07	.05	170	734
FEB.											
09...	340	38	--	.030	--	1.0	.8	.14	.12	--	--
25...	360	26	.8	.020	--	.08	1.3	.18	.16	180	801
MAR.											
10...	330	40	--	.010	--	.01	1.0	.14	.14	--	--
22...	330	38	.6	.010	--	.06	1.0	.16	.05	140	754
APR.											
08...	330	39	--	.010	--	.04	.7	.12	.00	--	--
21...	340	41	.6	.020	--	.04	.6	.14	.03	170	800
MAY											
06...	310	36	--	.020	--	.00	.3	.21	.14	--	--
18...	250	29	.8	.030	--	.00	.1	.13	.03	160	690
JUNE											
09...	210	24	--	.000	.08	.16	.08	.15	.10	--	--
22...	220	26	.4	.000	.18	.03	--	.11	.08	150	--
JULY											
22...	190	22	.8	--	.31	--	--	--	.07	130	--
AUG.											
10...	210	23	.6	--	.11	--	--	--	.07	120	--
SEP.											
21...	200	21	.7	--	.59	--	--	--	.06	180	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
JAN.								
27...	10	0	0	0	0	0	40	.0
FEB.								
09...	--	--	--	--	--	--	--	.2

DATE	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MOLY- BDENUM (MO) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
JAN.							
27...	--	3	4	0	1100	6.7	20
FEB.							
09...	.2	--	--	--	--	--	--

PLATTE RIVER BASIN

06767998 PLATTE RIVER NEAR OVERTON, NEBR. (NORTH CHANNEL)

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT.								
13...	1050	880	8.2	11.0	20	10.5	920	200
28...	1070	882	8.2	9.0	10	11.0	2100	56
NOV.								
10...	824	840	8.2	8.5	--	11.3	1800	85
23...	1160	870	7.9	1.0	--	12.8	--	--
DEC.								
15...	1290	890	8.0	1.5	--	12.3	360	80
28...	1540	940	7.4	2.0	--	14.3	250	59
JAN.								
13...	1650	1200	7.8	.0	--	11.3	1300	120
27...	1670	833	7.9	.5	--	12.7	1500	100
FEB.								
09...	1210	950	7.9	.0	--	12.9	110	16
25...	1540	825	7.7	1.0	--	12.5	440	27
MAR.								
10...	1650	795	7.9	7.5	--	12.6	410	15
22...	1570	820	7.8	6.0	--	13.9	42	3
APR.								
08...	1400	835	7.7	11.0	--	12.8	130	60
21...	2160	820	7.6	16.0	--	11.8	3700	2000
MAY								
06...	5800	985	7.4	13.5	--	8.3	860	280
18...	6560	900	7.5	14.5	--	7.7	19000	2400
JUNE								
09...	8260	810	7.5	22.5	--	7.0	600	71
22...	8380	815	7.4	26.5	--	9.0	140	80

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	804	857	810	791	764	770	1090	813	862	764	784	806
2	802	851	802	786	798	779	779	829	833	756	810	778
3	808	849	823	823	787	803	778	922	829	751	822	779
4	798	842	812	829	842	799	792	958	806	751	830	781
5	788	853	812	948	855	784	804	958	808	751	782	779
6	780	832	800	906	824	784	814	964	812	753	841	768
7	780	826	839	891	747	778	806	973	814	751	845	767
8	793	855	835	932	832	782	794	976	788	765	839	779
9	800	808	846	953	838	780	818	958	790	798	834	768
10	800	788	833	945	818	790	808	961	792	816	814	772
11	795	805	906	913	789	782	820	936	788	790	820	772
12	804	799	858	913	735	779	795	925	760	774	773	772
13	812	793	856	862	730	770	763	909	769	780	839	785
14	824	838	854	841	680	770	739	909	784	798	824	790
15	830	840	839	841	690	756	854	930	788	792	810	787
16	836	806	858	825	693	756	741	933	790	794	818	781
17	846	803	841	795	660	790	720	947	788	790	809	779
18	840	799	837	752	656	799	824	912	798	780	803	772
19	842	834	915	788	676	790	862	902	798	780	797	765
20	846	793	903	758	713	786	853	894	794	788	765	785
21	850	792	898	762	842	788	804	882	794	810	805	794
22	855	803	880	753	848	784	792	879	778	816	822	778
23	848	834	920	797	846	758	820	865	800	816	826	774
24	850	846	908	814	846	790	912	868	788	812	830	768
25	852	844	997	806	798	754	869	858	798	801	803	733
26	857	810	862	816	732	792	820	856	796	805	826	760
27	922	805	862	804	710	766	790	863	796	801	539	776
28	852	824	876	1020	757	746	768	863	800	800	559	751
29	855	812	837	752	---	690	744	858	800	786	832	758
30	852	818	806	700	---	686	774	827	767	782	858	746
31	842	---	844	747	---	753	---	827	---	780	851	---
MONTH	828	822	857	834	768	772	812	902	797	785	800	773

PLATTE RIVER BASIN

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06767999 PLATTE RIVER NEAR OVERTON, NEBR. (SOUTH CHANNEL)

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT.								
13...	895	885	8.3	11.5	20	10.1	110	63
28...	792	905	8.2	10.0	10	12.8	400	10
NOV.								
10...	714	860	8.3	8.5	--	11.1	150	2
23...	812	860	8.2	1.0	--	14.7	--	--
DEC.								
15...	818	995	8.3	2.0	--	13.4	13	69
28...	824	1020	8.3	2.5	--	15.2	10	1
JAN.								
13...	831	1160	8.2	1.0	--	14.2	27	5
27...	954	1050	8.2	2.5	--	13.1	4	3
FEB.								
09...	701	1140	8.2	2.0	--	13.8	8	1
25...	857	1140	8.3	5.5	--	12.7	4	6
MAR.								
10...	844	1120	8.4	6.0	--	13.0	10	3
22...	844	1120	7.9	6.0	--	12.4	3	1
APR.								
08...	802	1150	7.8	10.0	--	12.6	33	24
21...	688	1090	7.8	16.0	--	11.4	950	1000
MAY								
06...	2150	1030	7.6	14.0	--	8.2	1300	410
18...	2310	970	7.6	12.0	--	7.5	11000	2500
JUNE								
09...	2640	840	7.6	22.0	--	7.1	920	75
22...	2300	865	7.5	26.5	--	7.3	170	110

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	810	905	878	1000	1050	1120	1100	1040	814	775	795	811
2	808	866	887	1000	1040	1110	1120	1060	870	775	804	786
3	805	884	894	1010	1050	1110	1080	1000	865	732	821	788
4	797	860	894	1010	1050	1110	903	1030	862	766	833	795
5	765	858	958	1000	1080	1100	1070	997	820	764	785	788
6	783	847	908	1000	1090	1110	1070	1020	877	763	844	782
7	788	839	935	1000	1020	1110	1080	1000	831	763	844	780
8	786	817	943	1000	1100	1100	1090	1040	818	781	831	776
9	801	823	933	997	1090	1100	1090	1040	808	822	835	780
10	810	821	933	1000	1090	1100	1070	1020	808	839	---	780
11	806	833	940	1010	1100	1100	1060	1010	780	808	823	784
12	812	817	948	1000	1080	1090	1080	948	766	796	729	784
13	826	811	964	1000	1130	1070	1020	970	812	800	823	795
14	832	843	945	977	1140	1080	1040	936	800	785	819	797
15	844	841	958	1020	1130	1080	1020	988	831	806	808	799
16	851	835	964	1020	1140	1070	1020	1010	800	808	804	782
17	826	831	964	1060	1130	804	1040	956	806	808	796	791
18	853	829	961	1020	1110	798	1060	956	827	798	800	784
19	859	804	966	1020	1100	795	952	964	816	794	793	778
20	866	833	977	1020	1120	793	997	979	849	804	766	791
21	872	831	969	1020	1120	795	1020	959	806	826	795	803
22	877	823	972	1020	1120	1070	1010	959	820	830	823	789
23	877	823	983	1030	1120	1080	1040	985	808	830	810	780
24	886	829	1000	1010	1120	1070	1010	928	802	826	812	782
25	886	847	876	1030	1120	1080	1060	928	808	816	800	757
26	893	841	997	1020	1120	1070	1020	923	806	810	814	776
27	898	856	991	1010	1120	1070	1040	903	810	814	802	788
28	888	864	991	1040	1110	1080	1020	923	812	812	825	767
29	888	869	997	1020	---	1070	1000	886	810	798	842	775
30	891	880	994	1030	---	1080	1020	921	764	796	844	767
31	888	---	1000	1040	---	754	---	921	---	796	838	---
MONTH	841	842	952	1010	1100	1030	1040	974	817	798	812	785

PLATTE RIVER BASIN

06767998 PLATTE RIVER NEAR OVERTON, NEBR. (NORTH CHANNEL)

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	6.5	4.5	2.0	0.5	1.5	4.5	11.0	18.5	24.0	28.0	21.5
2	14.0	5.5	1.5	1.5	0.5	1.0	11.5	18.0	19.5	22.0	21.0	22.0
3	14.0	4.5	3.0	0.0	1.0	1.5	13.0	14.0	18.5	22.0	20.0	22.0
4	18.5	4.5	3.0	0.0	0.5	3.0	10.0	18.0	19.5	28.0	20.5	20.5
5	15.5	6.0	1.0	0.0	0.5	2.0	6.0	17.0	19.5	26.5	18.5	20.0
6	15.5	6.5	1.5	0.0	0.5	2.0	8.0	15.5	25.0	27.0	20.0	26.0
7	13.0	8.5	3.0	0.0	1.0	1.5	6.5	13.0	21.0	26.0	21.0	22.0
8	8.5	7.0	2.0	0.0	0.5	4.0	9.0	15.0	21.0	20.0	23.0	18.5
9	8.0	6.5	3.0	0.5	0.5	3.0	10.0	20.5	21.5	25.5	21.0	16.5
10	9.0	7.0	1.0	1.0	1.5	5.0	10.0	20.0	21.0	28.0	23.5	20.0
11	10.0	6.0	0.5	0.0	1.0	3.5	9.0	15.5	21.0	23.0	22.0	19.5
12	11.0	4.5	0.5	0.0	1.5	5.5	10.0	13.0	23.5	33.5	20.5	24.0
13	11.0	5.0	0.5	0.0	0.5	5.0	12.0	14.5	24.0	23.5	21.0	18.0
14	10.0	3.5	0.5	0.0	1.0	3.5	10.0	16.5	23.0	23.0	21.0	16.5
15	8.5	3.5	1.5	0.0	0.5	15.0	13.0	18.5	24.0	24.5	29.0	16.0
16	9.0	3.0	1.0	0.5	5.0	14.0	12.0	22.0	23.5	24.0	22.0	15.0
17	9.5	4.5	1.0	1.0	1.0	14.0	13.5	19.0	23.5	25.5	23.5	19.5
18	15.0	5.0	0.5	1.0	1.0	3.5	17.0	15.5	24.5	24.5	23.5	13.5
19	10.0	5.5	0.5	0.5	2.0	4.0	12.0	13.5	24.0	23.0	23.5	12.0
20	9.5	4.5	2.0	1.5	0.5	4.5	13.0	15.5	29.5	23.5	23.5	13.5
21	9.5	5.5	1.0	1.0	0.5	5.0	13.0	15.5	24.0	21.5	24.0	14.0
22	10.0	2.0	1.0	1.0	0.5	6.5	10.5	15.5	24.5	24.0	23.5	12.0
23	9.0	1.0	0.0	0.5	2.0	0.5	13.0	15.5	24.0	23.0	24.0	12.0
24	10.0	0.5	0.5	1.0	3.5	5.0	14.0	15.0	25.5	23.5	21.0	7.0
25	13.0	2.0	1.0	1.5	3.5	4.5	13.5	14.5	25.0	25.0	22.0	14.5
26	8.5	2.0	1.5	0.5	1.5	4.5	9.0	15.5	24.5	21.0	21.0	19.5
27	10.5	1.0	3.0	1.0	4.0	13.5	8.0	15.5	28.5	22.0	20.0	20.5
28	8.0	0.5	1.0	1.5	3.0	13.5	10.5	15.5	23.5	21.0	19.5	21.0
29	6.0	4.5	0.5	1.5	---	15.5	10.0	15.5	24.5	20.0	27.0	9.5
30	7.0	3.0	0.5	1.0	---	15.0	11.0	15.5	23.0	19.5	21.0	12.0
31	6.5	---	0.5	0.5	---	3.5	---	20.5	---	21.0	21.0	---
MONTH	10.5	4.5	1.5	0.5	1.5	6.0	10.5	16.0	23.0	24.0	22.0	17.5

PLATTE RIVER BASIN

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06767999 PLATTE RIVER NEAR OVERTON, NEBR. (SOUTH CHANNEL)

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(RECORDER WITH TEMPERATURE ATTACHMENT, CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	8.0	3.0	4.0	2.0	3.0	0.0	3.5	1.0	4.0	1.5
2	20.0	---	5.5	3.5	4.0	1.0	0.0	0.0	3.0	0.5	4.5	1.0
3	19.0	13.5	6.0	3.5	5.0	2.0	0.0	0.0	1.5	1.0	5.0	3.0
4	19.0	14.0	9.5	3.5	4.0	1.5	0.0	0.0	3.0	1.0	5.5	3.5
5	19.5	15.5	9.5	5.5	4.0	2.0	0.0	0.0	3.5	0.5	4.5	4.0
6	19.5	16.0	9.5	5.0	4.5	1.0	0.0	0.0	3.5	0.0	4.5	3.5
7	16.0	11.5	8.0	5.0	4.5	1.5	0.0	0.0	5.5	2.0	---	---
8	11.5	10.0	5.0	3.0	4.5	1.5	0.0	0.0	5.0	2.0	4.5	---
9	13.0	9.0	6.5	2.0	4.0	2.0	0.0	0.0	4.5	1.5	5.5	1.5
10	13.5	10.5	---	---	2.0	0.5	0.0	0.0	5.5	1.0	5.0	1.5
11	12.0	10.0	---	---	3.0	0.5	0.0	0.0	5.5	4.0	6.0	1.5
12	14.5	10.0	7.0	---	3.0	0.5	0.0	0.0	4.5	1.0	6.5	1.5
13	---	---	7.0	4.5	3.5	0.5	1.5	0.0	3.0	0.5	8.0	3.0
14	---	---	6.5	3.0	3.0	0.5	2.0	0.0	5.0	1.0	5.5	3.5
15	13.0	---	7.0	2.0	---	---	1.5	0.0	3.0	0.5	6.0	1.5
16	14.5	10.0	7.0	3.0	---	---	2.0	0.0	2.0	0.5	6.5	3.5
17	14.0	13.0	8.0	4.0	---	---	3.0	1.0	4.0	0.0	6.0	3.0
18	13.5	9.5	7.0	4.0	1.5	---	1.5	0.5	4.5	3.5	4.0	0.5
19	10.5	9.5	6.5	4.0	2.0	0.5	0.5	0.0	3.5	1.0	---	---
20	12.0	9.5	6.5	4.0	2.0	0.5	3.0	0.0	2.0	0.5	---	---
21	12.0	9.5	6.5	1.5	2.0	1.0	3.0	0.0	1.0	0.5	---	---
22	12.0	9.5	3.0	0.0	3.0	1.0	---	---	---	---	6.0	---
23	---	---	---	---	5.5	1.0	---	---	---	---	---	---
24	13.0	9.5	---	---	5.5	1.5	---	---	5.5	---	---	---
25	12.0	9.0	3.5	---	5.5	1.0	4.0	---	6.5	1.5	---	---
26	12.0	9.5	3.0	1.0	3.0	1.0	3.5	1.0	5.5	1.5	---	---
27	---	---	2.0	1.0	3.0	0.5	3.5	1.0	4.5	1.0	---	---
28	---	---	1.5	0.5	3.0	0.5	5.5	1.5	3.5	1.0	4.5	3.5
29	---	---	3.5	0.5	---	---	5.5	4.5	---	---	4.0	1.5
30	8.5	---	4.5	1.5	---	---	5.5	2.0	---	---	4.5	1.0
31	8.0	4.0	---	---	3.5	1.0	5.0	0.5	---	---	4.5	2.0
MONTH	---	---	9.5	0.0	5.5	0.5	5.5	0.0	6.5	0.0	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	2.0	---	---	20.5	18.0	25.5	21.5	28.0	19.5	28.0	21.0
2	8.5	3.5	---	---	19.5	18.5	29.0	20.5	26.5	20.5	29.0	23.0
3	8.5	3.0	---	---	19.5	18.0	25.5	21.0	26.5	19.5	29.0	23.5
4	9.5	---	---	---	21.0	---	26.5	21.5	26.5	16.5	25.5	19.0
5	---	---	---	---	---	---	27.0	21.0	25.5	16.5	23.5	18.0
6	9.5	---	---	---	---	---	27.0	22.0	26.5	19.5	26.5	18.5
7	10.5	4.0	---	---	---	---	29.0	22.0	26.5	18.5	28.0	19.5
8	10.0	6.0	---	---	---	---	22.0	20.0	28.0	18.5	20.5	16.0
9	11.0	5.0	---	---	---	---	25.5	19.0	29.5	19.5	23.5	19.0
10	11.5	5.5	---	---	24.0	---	25.5	21.0	28.5	20.5	23.5	18.5
11	11.5	6.5	---	---	24.5	20.5	26.5	22.0	28.0	20.0	23.0	18.5
12	---	---	---	---	25.5	22.0	29.5	23.0	28.0	19.5	22.0	19.0
13	---	---	---	---	25.5	23.0	26.0	22.0	29.5	20.0	23.0	17.0
14	---	---	---	---	25.0	21.5	28.0	21.0	28.0	21.5	21.5	16.5
15	---	---	---	---	26.5	23.0	29.5	22.0	28.5	21.5	22.0	15.5
16	---	---	---	---	26.0	23.0	29.0	21.5	28.5	21.5	17.0	14.5
17	---	---	---	---	26.5	23.0	30.0	23.0	29.0	21.5	16.5	14.0
18	---	---	---	---	26.0	23.5	28.0	22.0	29.5	21.5	16.5	13.5
19	---	---	15.0	---	26.0	23.5	27.0	20.5	30.0	21.5	19.5	11.5
20	---	---	17.0	13.0	26.0	24.0	26.0	20.5	27.0	21.5	20.0	13.5
21	---	---	17.0	15.5	26.5	23.5	26.0	18.5	30.5	21.5	15.5	14.0
22	---	---	15.5	15.0	26.5	24.0	29.5	20.0	27.0	23.0	15.5	13.0
23	---	---	18.5	15.0	26.0	22.0	28.0	21.0	27.0	22.0	18.5	11.0
24	---	---	17.0	14.5	29.0	24.5	28.5	20.0	24.5	22.0	15.5	12.0
25	---	---	18.5	14.0	28.0	25.0	24.5	19.5	27.0	21.5	18.0	14.0
26	---	---	18.5	15.5	26.5	24.0	26.5	18.5	26.5	23.0	19.0	14.5
27	---	---	18.0	15.0	26.0	23.5	26.5	19.0	24.5	21.5	19.5	14.5
28	---	---	16.0	15.0	26.5	23.5	25.5	19.0	26.0	20.5	19.0	15.5
29	---	---	17.0	14.5	27.0	24.0	25.0	20.0	26.5	21.0	18.5	14.5
30	---	---	18.0	15.5	26.0	23.0	26.0	18.0	25.5	21.5	19.5	16.5
31	---	---	20.0	15.5	---	---	26.5	19.0	25.0	22.0	---	---
MONTH	---	---	---	---	29.0	---	30.0	18.0	30.5	16.5	29.0	11.0

PLATTE RIVER BASIN

06767998 PLATTE RIVER NEAR OVERTON, NEBR. (NORTH CHANNEL)

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
MAY											
19...	1055	13.5	6960	728	13700	5	6	10	24	79	96
27...	1130	15.5	8440	496	11300	--	--	--	--	--	--
JUNE											
24...	1130	25.0	6860	226	6040	14	15	21	45	88	100

DATE	TIME	TEMP- ERATURE (DEG C)	NUMBER OF SAM- PLING POINTS	DIS- CHARGE (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
MAY							
19...	1055	13.5	9	6960	--	0	2
27...	1130	15.5	9	8440	--	0	6
JUNE							
24...	1130	25.0	7	6860	0	1	14

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	BED MAT. FALL DIAM. % FINER THAN 4.00 MM	BED MAT. FALL DIAM. % FINER THAN 8.00 MM	BED MAT. FALL DIAM. % FINER THAN 16.0 MM
MAY						
19...	21	53	71	87	97	100
27...	37	61	75	87	96	100
JUNE						
24...	27	51	69	87	98	100

06770190 NORTH DRY CREEK NEAR KEARNEY, NEBR.

LOCATION.--Lat 40°36'00", long 99°08'30", in SE 1/4 sec.5, T.7 N., R.16 W., Kearney County, at gaging station about 1,000 ft north of east-west county road, 5.3 miles upstream from mouth, 8 miles southwest of Kearney, and 8.2 miles north of Axtell.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO2) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
OCT.												
13...	8.0	31	--	0	406	140	32	62	23	339	19	310
28...	8.9	9.3	--	60	--	140	31	54	19	340	10	296
NOV.												
10...	8.0	--	--	--	--	150	29	50	--	342	0	281
24...	5.5	33	100	0	570	130	25	42	18	348	0	285
DEC.												
16...	14	--	--	--	--	150	26	40	--	344	0	282
29...	8.0	34	--	0	--	130	24	39	17	330	0	270
JAN.												
13...	6.3	--	--	--	--	140	25	39	--	337	0	277
27...	12	33	0	60	1100	120	22	36	20	295	0	242
FEB.												
09...	6.9	--	--	--	--	130	23	59	--	318	0	261
25...	11	29	--	0	--	130	26	43	22	314	0	257
MAR.												
11...	10	28	--	30	--	130	24	41	17	321	0	263
23...	14	26	--	80	1200	110	23	42	17	286	0	234
APR.												
08...	8.3	--	--	--	--	120	23	37	--	318	0	260
22...	8.3	28	--	10	1500	130	30	50	22	329	0	270
MAY												
06...	8.6	--	--	--	--	110	22	34	--	302	0	248
19...	11	30	--	10	--	120	26	43	14	318	0	260
JUNE												
10...	8.6	--	--	--	--	110	23	44	--	308	0	253
23...	9.2	32	200	30	600	91	24	56	15	297	0	235
JULY												
13...	16	28	--	--	--	110	31	65	17	291	0	239
AUG.												
24...	14	28	--	--	--	110	25	78	18	311	0	255
SEP.												
21...	5.9	32	--	--	--	150	30	57	19	384	0	315

06767999 PLATTE RIVER NEAR OVERTON, NEBR. (SOUTH CHANNEL)

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

						SUS- PENDE SEDI- MENT	SUS- PENDE SEDI- MENT	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.
		TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM	% FINER THAN 1.00 MM		
DATE	TIME											
MAY												
19...	1040	13.5	2450	961	6360	--	--	--	--	--		
27...	1055	15.5	3200	1140	9850	40	47	70	98	100		
JUNE												
24...	1135	25.0	2070	205	1150	31	37	52	82	100		
				BED MAT. FALL DIAM.	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.
		NUMBER OF SAM- PLING POINTS	DIS- CHARGE (CFS)	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM	% FINER THAN 1.00 MM	% FINER THAN 2.00 MM	% FINER THAN 4.00 MM	% FINER THAN 8.00 MM	% FINER THAN 16.0 MM	
DATE	TIME	TEMP- ERATURE (DEG C)										
MAY												
19...	1040	13.5	3	2450	0	2	15	40	60	81	95	100
27...	1055	15.5	4	3200	0	2	16	50	70	89	98	100
JUNE												
24...	1135	25.0	4	2070	0	1	8	42	62	83	96	100

06770190 NORTH DRY CREEK NEAR KEARNEY, NEBR.--Continued

PERIOD OF RECORD.--Chemical analyses: February 1969 to September 1971 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRITE (N) (MG/L)	NITRATE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.											
13...	260	29	.3	.040	--	.06	4.4	.83	.67	30	803
28...	260	25	.5	.030	--	.02	4.2	.64	.54	380	779
NOV.											
10...	260	26	--	.040	--	.03	4.0	.62	.52	--	759
24...	220	20	.5	.030	--	.02	4.4	.52	.45	60	737
DEC.											
16...	230	19	--	.030	--	.03	4.8	.54	.46	--	--
29...	220	18	.4	.040	--	.04	8.2	.45	.42	30	691
JAN.											
13...	230	17	--	.060	--	.18	5.1	.85	.08	--	694
27...	210	19	.5	.050	--	.11	5.6	1.1	.46	80	634
FEB.											
09...	250	16	--	.030	--	.10	5.3	.68	.42	--	--
25...	230	22	.5	.060	--	.38	6.3	.57	.49	50	699
MAR.											
11...	210	18	.3	.020	--	.13	2.0	.58	.53	80	657
23...	220	21	.4	.030	--	.17	4.6	.50	.45	40	632
APR.											
08...	190	15	--	.040	--	.00	3.9	.55	.28	--	--
22...	250	24	.4	.030	--	.00	3.1	3.4	.29	60	757
MAY											
06...	180	16	--	.12	--	.08	3.3	.76	.47	--	--
19...	230	17	.5	.21	--	.13	5.0	.79	.63	70	688
JUNE											
10...	200	18	--	.060	3.3	.24	3.2	.85	.50	--	--
23...	230	23	.3	.090	4.0	.38	--	.90	.44	120	--
JULY											
13...	300	32	.6	--	2.3	--	--	--	.50	150	--
AUG.											
24...	260	31	.6	--	1.5	--	--	--	.40	200	--
SEP.											
21...	300	27	.6	--	3.9	--	--	--	.64	180	--

PLATTE RIVER BASIN

06770190 NORTH DRY CREEK NEAR KEARNEY, NEBR.--Continued

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)
OCT.											
13...	788	1.09	17.3	490	180	1.2	1080	8.4	22	3.1	--
28...	737	1.06	18.7	470	180	1.1	1040	8.4	--	1.8	--
NOV.											
10...	--	1.03	16.4	480	200	1.0	1000	8.2	--	.8	--
24...	683	1.00	10.9	430	150	.9	977	8.2	--	1.8	--
DEC.											
16...	--	--	--	480	200	.8	968	8.1	--	1.4	--
29...	681	.94	14.9	430	160	.8	944	8.0	--	2.3	--
JAN.											
13...	--	.94	11.8	440	160	.8	977	8.0	--	1.2	--
27...	635	.86	20.5	390	150	.8	894	8.2	--	2.2	.00
FEB.											
09...	--	--	--	410	150	1.3	891	8.0	--	.5	--
25...	681	.95	20.8	430	170	.9	957	7.7	--	1.7	--
MAR.											
11...	627	.89	17.7	410	150	.9	899	7.8	--	1.8	--
23...	624	.86	23.9	380	140	.9	880	8.0	--	3.7	--
APR.											
08...	--	--	--	390	130	.8	845	8.3	--	2.5	--
22...	712	1.03	17.0	460	190	1.0	1000	8.1	--	4.1	--
MAY											
06...	--	--	--	370	120	.8	810	8.0	--	3.6	--
19...	655	.94	20.4	410	150	.9	960	8.0	--	3.1	--
JUNE											
10...	--	--	--	370	120	1.0	925	7.8	--	7.0	--
23...	632	.86	15.7	330	91	1.4	954	7.6	10	5.3	--
JULY											
13...	737	1.00	31.8	400	160	1.4	1050	7.6	20	--	--
AUG.											
24...	710	.97	27.2	380	120	1.7	988	7.4	30	--	--
SEP.											
21...	822	1.12	13.2	500	180	1.1	1200	8.0	10	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
JAN.								
27...	10	0	0	0	0	0	30	.0
FEB.								
09...	--	--	--	--	--	--	--	.1

06770190 NORTH DRY CREEK NEAR KEARNEY, NEBR.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MOLY- BDENUM (MD) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
JAN. 27...	--	3	8	0	510	5.7	10
FEB. 09...	.2	--	--	--	--	--	--

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 13...	8.0	1130	8.1	12.0	20	11.8	1600	390
28...	8.9	1110	8.4	8.0	10	16.2	420	260
NOV. 10...	8.0	1050	8.3	10.5	7	16.4	140	61
24...	5.5	1010	7.9	.5	--	15.1	100	35
DEC. 16...	14	1040	7.8	.5	--	13.1	65	9
29...	8.0	1030	7.5	.5	--	9.5	28	14
JAN. 13...	6.3	970	7.6	1.0	--	12.3	180	5
27...	12	910	7.9	4.0	--	9.4	58	25
FEB. 09...	6.9	930	7.8	.5	--	15.7	8	2
25...	11	990	7.8	11.5	--	10.6	40	13
MAR. 11...	10	965	7.7	4.0	--	10.4	68	16
23...	14	935	7.5	.5	--	12.3	40	28
APR. 08...	8.3	905	7.8	14.0	--	9.6	17	11
22...	8.3	1030	7.5	11.0	--	8.7	580	230
MAY 06...	8.6	840	7.8	12.5	--	9.2	480	330
19...	11	955	7.4	8.5	--	9.8	4900	1400
JUNE 10...	8.6	925	7.2	17.0	--	6.4	1800	1000
23...	9.2	920	7.5	20.0	--	5.8	1500	1300

PLATTE RIVER BASIN

06772500 WOOD RIVER NEAR CHAPMAN, NEBR.

LOCATION.--Lat 40°57'56", long 98°12'22", in NE1SE1 sec.34, T.12 N., R.8 W., Merrick County, at county road bridge 2.5 miles west and 4.0 miles south of center of Chapman.

DRAINAGE AREA.--700 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO2) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT.											
05...	13	30	100	10	140	71	13	48	14	220	0
NOV.											
18...	15	28	--	110	--	78	15	116	15	281	0
DEC.											
02...	14	28	--	20	--	74	15	106	14	253	0
15...	12	28	--	60	--	82	15	102	15	262	0
JAN.											
11...	16	31	--	220	98	71	14	48	12	226	0
25...	12	26	--	290	--	67	14	65	13	221	0
FEB.											
09...	16	27	--	40	--	68	15	78	15	205	0
24...	23	30	--	50	--	73	13	66	15	252	0
MAR.											
24...	26	25	--	30	--	71	14	93	12	232	0
APR.											
19...	23	25	--	80	--	79	15	71	12	233	0
MAY											
24...	27	26	200	190	420	75	15	47	10	232	0
JUNE											
16...	26	28	400	130	--	83	16	70	12	228	0
JULY											
15...	42	29	--	20	40	71	15	44	16	213	0
AUG.											
11...	17	26	--	10	50	83	18	84	14	235	0
SEP.											
07...	12	28	--	20	20	79	15	67	11	219	0

DATE	ALKA- LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)
OCT.											
05...	180	110	36	.3	--	4.1	--	1.6	180	445	447
NOV.											
18...	230	160	100	.8	--	.8	--	4.6	190	657	659
DEC.											
02...	208	160	95	.7	--	.8	--	2.1	170	630	618
15...	215	170	85	.8	--	1.9	--	3.0	170	631	630
JAN.											
11...	185	99	35	1.5	--	3.6	3.9	1.3	180	447	439
25...	182	110	52	.6	--	1.9	--	2.2	140	492	468
FEB.											
09...	168	140	66	.6	--	2.2	--	2.8	1800	519	525
24...	207	95	64	1.1	--	3.8	2.5	2.1	160	502	500
MAR.											
24...	190	140	77	.5	--	2.7	--	1.6	170	579	563
APR.											
19...	191	170	42	.5	--	.7	--	1.2	170	551	535
MAY											
24...	190	100	33	.6	--	6.6	1.2	.97	110	457	455
JUNE											
16...	187	160	42	.6	6.2	--	--	1.5	110	--	552
JULY											
15...	175	110	37	.6	4.7	--	--	1.6	120	--	448
AUG.											
11...	193	160	64	.6	3.5	--	--	2.7	120	--	581
SEP.											
07...	180	160	39	.8	3.4	--	--	1.4	310	--	523

06772500 WOOD RIVER NEAR CHAPMAN, NEBR.--Continued

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT. 05...	.61	15.6	230	50	1.4	651	8.0	--	--	.02	.30
NOV. 18...	.89	26.6	260	25	3.2	1020	7.6	--	--	--	--
DEC. 02...	.86	23.8	250	38	2.9	1010	7.8	--	--	--	--
15...	.86	20.4	260	50	2.7	989	7.9	--	--	--	.06
JAN. 11...	.61	19.3	230	47	1.4	706	7.7	--	--	--	.11
25...	.67	15.9	220	41	1.9	785	8.0	--	--	--	--
FEB. 09...	.71	22.4	230	61	2.2	861	7.9	--	--	--	--
24...	.68	31.2	240	30	1.9	785	7.5	--	--	--	.00
MAR. 24...	.79	40.6	240	46	2.6	915	7.8	--	--	--	--
APR. 19...	.75	34.2	260	68	1.9	821	7.6	--	--	--	--
MAY 24...	.62	33.3	250	60	1.3	723	7.6	--	--	.01	.04
JUNE 16...	.75	38.8	270	86	1.8	832	7.1	10	--	--	--
JULY 15...	.61	51.4	240	64	1.2	694	7.0	50	8.4	--	--
AUG. 11...	.79	26.7	280	89	2.2	908	7.2	9	7.8	--	--
SEP. 07...	.71	16.9	260	79	1.8	816	7.0	10	7.6	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)
OCT. 05...	0	0	0	0	0	0	0	0	0	30
MAY 24...	10	0	0	0	0	--	0	65	0	20

DATE	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MOLY- BDENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 05...	.0	.1	1	0	12	1	490	4.8	5
MAY 24...	.0	--	0	0	0	1	520	4.0	20

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT. 05...	13	675	7.9	24.0	6.4
NOV. 18...	15	1100	7.8	11.0	6.2
DEC. 02...	14	--	7.8	10.5	6.8
15...	12	--	7.9	9.0	8.1
JAN. 11...	16	--	7.8	2.0	9.5
25...	12	--	7.7	11.0	7.9
FEB. 09...	16	--	7.9	2.0	9.5
24...	23	--	7.7	11.0	6.3
MAR. 24...	26	--	7.5	1.0	8.4
APR. 19...	23	--	8.0	22.0	7.5
MAY 24...	27	--	7.7	18.0	6.3
JUNE 16...	26	--	7.8	28.0	6.5
JULY 15...	42	--	7.6	25.0	4.4
AUG. 11...	17	--	7.9	24.5	6.0
SEP. 07...	12	--	7.8	24.0	6.4

PLATTE RIVER BASIN

06774000 PLATTE RIVER NEAR DUNCAN, NEBR.

LOCATION.--Lat 41°22'04", long 97°29'40", in SE 1/4 sec.12, T.16 N., R.2 W., Platte County, at gaging station at highway bridge 1.5 miles south of Duncan and 12 miles upstream from Loup River.

DRAINAGE AREA.--64,900 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: December 1964 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CaCO ₃ (MG/L)
OCT.												
14...	1700	23	--	50	61	68	21	84	12	221	0	181
29...	1840	18	--	10	0	69	24	85	11	222	2	185
NOV.												
11...	1480	--	--	--	--	70	20	78	--	228	0	187
24...	800	25	--	0	160	74	21	83	12	245	0	201
DEC.												
16...	1500	--	--	--	--	84	25	90	--	259	0	213
29...	966	26	--	30	--	89	27	93	14	244	0	200
JAN.												
14...	1130	--	--	--	--	95	28	103	--	276	0	226
28...	1940	28	0	0	35	86	24	90	13	249	0	204
FEB.												
10...	1120	--	--	--	--	92	28	99	--	275	0	226
26...	2220	22	--	50	--	82	25	82	14	237	0	194
MAR.												
11...	3010	--	--	--	--	69	18	67	--	196	0	161
25...	2800	22	--	20	51	80	23	76	11	225	0	184
APR.												
09...	2220	--	--	--	--	88	24	79	--	239	0	196
20...	1260	11	--	70	85	72	26	81	14	203	0	166
MAY												
07...	4840	--	--	--	--	71	20	64	--	218	0	179
21...	8450	19	--	30	63	77	23	80	9.1	240	0	197
JUNE												
11...	9600	--	--	--	--	71	22	77	--	272	0	223
24...	8500	26	400	30	55	70	21	81	11	284	0	233
JULY												
09...	2820	24	--	--	--	59	20	58	12	--	0	--
SEP.												
08...	77	25	--	10	0	68	22	91	12	230	0	189

DATE	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.											
14...	210	27	.6	.010	--	.04	.4	.25	.15	110	571
29...	240	29	.7	.010	--	.01	.2	.23	.10	330	600
NOV.											
11...	210	27	--	.010	--	.01	.6	.18	.09	--	567
24...	230	28	.5	.010	--	.05	.7	.13	.14	120	618
DEC.											
16...	260	27	--	.030	--	.03	.6	.13	.07	--	--
29...	290	33	.7	.010	--	.09	.7	.16	.16	110	728
JAN.											
14...	300	33	--	.010	--	.06	.5	.12	.09	--	--
28...	270	32	.6	.020	--	.04	.6	.12	.11	160	674
FEB.											
10...	300	35	--	.020	--	.08	.7	.13	.09	--	--
26...	260	30	1.1	.020	--	.06	.9	.30	.10	110	647
MAR.											
11...	200	26	--	.020	--	.04	.9	.31	.21	--	--
25...	240	29	.6	.010	--	.07	1.3	.18	.37	130	610
APR.											
09...	250	32	--	.010	--	.02	.7	.21	.08	--	--
20...	270	32	.6	.020	--	.00	.00	.24	.03	150	637
MAY											
07...	200	25	--	.020	--	.00	.3	.33	.13	--	--
21...	240	29	.8	.010	--	.00	.2	.18	.18	140	618
JUNE											
11...	190	23	--	.000	.09	.12	.09	.30	.18	--	--
24...	180	25	.5	.000	.00	.00	--	.20	.13	160	--
JULY											
09...	190	22	.8	--	.26	--	--	.40	--	150	--
SEP.											
08...	230	35	.6	--	.00	--	--	--	.15	140	--

06774000 PLATTE RIVER NEAR DUNCAN, NEBR.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)
OCT.											
14...	562	.78	2620	260	76	2.3	824	8.2	7	3.2	--
29...	569	.82	2980	270	85	2.2	857	8.4	--	3.0	--
NOV.											
11...	--	.77	2270	260	69	2.1	815	8.3	--	1.2	--
24...	597	.84	1340	270	70	2.2	928	8.2	--	1.4	--
DEC.											
16...	--	--	--	310	98	2.2	958	8.2	--	1.7	--
29...	495	.99	1900	330	130	2.2	1020	8.1	--	1.7	--
JAN.											
14...	--	--	--	350	130	2.4	1070	8.1	--	1.0	--
28...	672	.92	3530	310	110	2.2	975	8.1	--	1.7	.00
FEB.											
10...	--	--	--	350	120	2.3	1070	8.0	--	.9	.00
26...	641	.88	3880	310	110	2.0	923	8.0	--	1.0	--
MAR.											
11...	--	--	--	250	86	1.9	767	7.8	--	3.5	--
25...	599	.83	4610	290	110	1.9	871	8.2	--	2.3	--
APR.											
09...	--	--	--	320	120	1.9	902	8.3	--	3.3	--
20...	603	.87	2170	290	120	2.1	921	8.3	--	6.4	--
MAY											
07...	--	--	--	260	82	1.7	770	8.0	--	4.2	--
21...	595	.84	14100	290	89	2.1	900	7.7	--	1.9	--
JUNE											
11...	--	--	--	270	45	2.0	857	8.0	--	1.4	--
24...	555	.75	12700	260	28	2.2	867	8.1	20	2.1	--
JULY											
09...	393	.53	2990	230	230	1.7	759	7.7	--	--	--
SEP.											
08...	597	.81	124	260	72	2.5	916	7.2	10	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
JAN.								
28...	10	0	0	0	0	0	30	.0
FEB.								
10...	--	--	--	--	--	--	--	.2

DATE	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MOLY- BDENUM (MO) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
JAN.							
28...	--	6	12	0	910	2.2	20
FEB.							
10...	.2	--	--	--	--	--	--

FIELD DETERMINATIONS

DATE	DIS- CHARGE (GFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT.								
14...	1700	895	8.1	8.0	40	14.0	2200	810
29...	1840	910	8.1	6.0	25	12.4	4300	190
NOV.								
11...	1480	850	8.1	5.5	--	12.1	740	93
24...	800	880	7.9	.5	--	10.8	160	3
DEC.								
16...	1500	1020	8.0	.5	--	13.2	12	6
29...	966	1050	7.7	.5	--	14.2	97	1
JAN.								
14...	1130	1560	7.7	.5	--	6.7	1800	150
28...	1940	1030	7.6	.0	--	5.8	3400	120
FEB.								
10...	1120	1100	7.7	.0	--	11.3	950	120
26...	2220	970	7.9	.5	--	12.5	200	5
MAR.								
11...	3010	1020	7.7	2.0	--	13.3	160	21
25...	2800	1050	7.9	.5	--	13.7	6900	120
APR.								
09...	2220	930	7.2	10.0	--	11.9	240	11
20...	1260	970	7.5	15.5	--	10.1	110	55
MAY								
07...	4840	780	7.4	11.5	--	8.6	13000	5500
21...	8450	930	7.5	15.5	--	8.3	7300	93
JUNE								
11...	9600	840	7.5	22.5	--	6.7	640	200
24...	8500	845	7.6	30.0	--	7.8	250	64

06775500 MIDDLE LOUP RIVER AT DUNNING, NEBR.

LOCATION.--Lat 41°49'50", long 100°06'00", in NW¼SE¼ sec.33, T.22 N., R.24 W., Blaine County, temperature recorder at gaging station at bridge on State Highway 2 at northeast corner of Dunning, 1 mile upstream from Dismal River.

DRAINAGE AREA.--1,760 sq mi, approximately, of which about 80 sq mi contributes directly to surface runoff.

PERIOD OF RECORD.--Water temperatures: October 1949 to September 1956, October 1965 to September 1971.

Sediment records: March 1950 to September 1952, October 1953 to September 1954.

EXTREMES.--1970-71:

Water temperatures: Maximum, 30.0°C June 17, July 12, 16; minimum, 0.5°C on many days during December to March.

Period of record:

Water temperatures: Maximum, 34°C June 21, 1956; minimum, freezing point on many days during winter period.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(RECORDER WITH TEMPERATURE ATTACHMENT, CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	14.5	4.0	2.0	6.5	4.5	2.0	0.5	0.5	0.5	3.0	0.5
2	18.0	12.0	3.5	2.0	5.0	3.0	1.5	0.5	0.5	0.5	4.0	1.0
3	16.5	11.0	3.5	2.0	4.5	3.0	0.5	0.5	0.5	0.5	4.0	0.5
4	18.5	11.5	5.5	2.0	5.5	1.0	0.5	0.5	0.5	0.5	6.5	2.0
5	19.0	13.5	6.5	2.0	4.5	1.5	0.5	0.5	0.5	0.5	6.0	3.5
6	18.5	13.5	9.0	4.5	3.5	1.0	0.5	0.5	0.5	0.5	3.5	1.0
7	14.0	5.5	8.0	6.5	5.5	2.0	0.5	0.5	0.5	0.5	4.0	0.5
8	5.5	4.0	8.0	3.0	7.0	3.5	0.5	0.5	0.5	0.5	4.0	0.5
9	9.0	3.5	9.0	3.5	5.0	3.0	0.5	0.5	0.5	0.5	9.0	2.0
10	9.0	6.5	8.0	5.5	3.0	1.0	0.5	0.5	0.5	0.5	9.0	3.5
11	12.0	8.0	7.0	3.5	1.0	1.0	0.5	0.5	0.5	0.5	8.5	4.5
12	14.0	8.0	5.5	3.0	1.0	1.0	0.5	0.5	0.5	0.5	9.5	4.0
13	13.5	10.0	5.0	4.0	1.0	1.0	0.5	0.5	0.5	0.5	12.0	5.5
14	10.0	9.0	4.0	1.5	1.0	1.0	0.5	0.5	1.5	0.5	10.0	5.0
15	11.5	5.5	5.0	1.0	1.0	1.0	0.5	0.5	6.0	1.5	6.5	3.0
16	11.5	6.5	6.0	3.0	1.0	1.0	0.5	0.5	8.0	4.0	8.5	3.0
17	12.0	8.0	8.5	4.5	2.0	1.0	0.5	0.5	6.0	3.5	7.0	3.5
18	12.0	8.0	5.5	5.5	1.5	1.0	0.5	0.5	5.0	1.5	4.5	1.0
19	11.0	9.0	6.5	5.0	1.0	1.0	0.5	0.5	1.5	0.5	1.0	1.0
20	14.0	9.0	6.5	3.5	1.0	1.0	0.5	0.5	0.5	0.5	5.0	1.0
21	14.0	10.0	6.0	3.0	1.0	1.0	0.5	0.5	0.5	0.5	4.5	2.0
22	13.5	9.5	3.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	5.5	1.5
23	15.0	11.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	4.0	1.0
24	13.0	9.0	1.0	1.0	1.0	1.0	0.5	0.5	1.0	0.5	1.0	0.5
25	12.0	9.5	4.5	1.0	1.0	1.0	0.5	0.5	6.5	1.0	5.0	0.5
26	9.5	5.5	4.5	2.0	1.0	1.0	0.5	0.5	5.5	0.5	8.0	3.0
27	9.5	5.5	3.5	1.5	1.0	0.5	0.5	0.5	2.0	0.5	12.0	5.5
28	8.0	5.5	3.5	1.0	0.5	0.5	0.5	0.5	2.0	0.5	10.0	8.0
29	5.5	4.5	5.5	1.5	0.5	0.5	3.5	0.5	---	---	12.0	5.0
30	5.5	4.5	8.0	4.0	0.5	0.5	3.5	0.5	---	---	14.5	6.5
31	5.5	2.0	---	---	0.5	0.5	0.5	0.5	---	---	14.5	6.0
MONTH	19.0	2.0	9.0	1.0	7.0	0.5	3.5	0.5	8.0	0.5	14.5	0.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	1.5	16.5	10.5	22.0	16.5	28.5	19.0	27.0	19.5	26.5	19.0
2	10.0	1.5	16.5	10.0	21.5	15.5	25.5	21.0	25.5	20.0	26.5	21.0
3	10.5	4.5	18.0	11.0	21.5	18.0	27.0	19.0	25.5	19.0	25.0	19.5
4	8.0	4.5	20.0	12.0	24.0	19.0	28.5	20.0	25.5	19.0	22.0	16.0
5	11.0	4.0	17.0	11.0	25.0	16.5	28.0	19.5	25.5	19.0	19.0	14.5
6	12.0	4.5	11.5	10.0	25.0	19.0	27.0	21.5	24.5	19.0	23.5	14.5
7	14.5	5.5	17.0	9.0	25.5	17.0	25.0	20.0	24.5	19.0	25.5	17.0
8	13.5	9.0	18.5	11.5	25.5	18.5	23.5	18.0	25.0	19.0	20.0	15.5
9	14.5	6.5	15.5	13.0	23.0	18.5	26.0	18.5	28.0	19.0	21.0	13.5
10	14.5	6.5	13.5	13.0	25.5	16.5	29.0	20.5	26.0	20.0	22.0	16.0
11	14.0	8.0	15.5	10.5	25.5	19.0	28.0	22.0	25.0	19.5	23.0	16.0
12	16.0	8.0	19.0	9.5	24.5	21.0	30.0	22.0	27.0	19.5	21.0	16.5
13	14.5	8.0	21.5	13.0	23.5	19.5	27.0	21.0	26.5	20.0	21.0	14.5
14	14.5	8.0	21.5	15.0	27.0	19.0	28.5	20.0	26.0	21.0	19.0	13.5
15	16.5	9.0	21.5	15.0	27.0	20.0	29.5	21.0	27.0	21.0	15.5	13.5
16	18.0	12.0	21.5	15.0	27.0	20.5	30.0	21.0	25.5	20.0	14.0	13.0
17	16.0	11.5	19.5	15.5	30.0	20.5	27.0	22.0	27.0	20.0	13.0	11.0
18	15.0	12.0	17.0	11.5	28.5	21.0	26.0	21.0	29.0	21.0	13.5	10.0
19	13.5	12.0	14.5	9.5	29.5	20.5	26.5	18.5	29.0	21.0	15.5	9.0
20	12.0	10.5	19.0	10.0	27.0	20.5	28.0	19.5	27.0	21.0	17.0	10.5
21	13.5	10.0	19.0	14.0	29.0	20.5	26.5	20.5	29.0	20.5	15.0	10.0
22	12.0	10.0	16.5	14.5	26.0	21.5	28.0	21.0	29.0	21.0	11.0	9.0
23	16.0	8.5	18.0	12.0	27.0	19.0	28.0	20.5	28.0	21.0	15.5	8.5
24	14.5	11.0	15.5	9.5	29.5	21.5	28.0	20.5	25.5	19.5	14.5	10.5
25	12.0	10.0	20.0	11.0	28.5	21.5	24.0	21.0	26.5	19.0	18.0	13.5
26	10.0	4.5	19.0	14.0	29.0	21.5	24.5	18.0	26.0	19.5	19.5	14.0
27	10.0	3.5	19.5	13.0	28.0	21.5	24.5	18.5	22.0	18.5	18.0	14.5
28	14.5	5.5	16.5	13.5	25.0	19.5	23.5	16.5	25.0	18.0	18.0	14.5
29	13.5	8.5	19.5	14.0	26.5	19.5	20.0	16.5	24.5	19.5	16.5	11.5
30	16.5	9.0	19.5	16.0	28.5	20.5	24.0	14.5	27.0	20.5	19.5	16.5
31	---	---	23.0	14.0	---	---	25.5	19.5	24.5	21.0	---	---
MONTH	18.0	1.5	23.0	9.0	30.0	15.5	30.0	14.5	29.0	18.0	26.5	8.5

LOCATION.--Lat 41°46'45", long 100°31'30", in SE¹/₄ NW¹/₄ sec.23, T.21 N., R.28 W., Thomas County, at gaging station at bridge on State Highway 83, 2 miles upstream from boundary of Nebraska National Forest (Bessey Division) and 14 miles south of Thedford.

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO2) (MG/L)	DIS-SOLVED ALUM- INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN- GANESE (MN) (UG/L)	DIS-SOLVED CAL- CIUM (CA) (MG/L)	DIS-SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO-TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT. 01...	190	57	--	0	--	23	3.5	6.9	5.6	100	0
NOV. 16...	192	57	--	30	11	22	3.3	7.1	5.8	98	0
JAN. 20...	193	57	--	80	47	21	3.5	6.9	6.3	99	0
MAR. 23...	203	53	--	100	42	22	3.6	6.8	5.2	98	0
MAY 19...	206	55	100	30	42	25	4.2	8.5	5.9	106	0
JULY 21...	189	59	--	10	14	23	3.7	7.1	4.5	101	0
SEP. 21...	177	57	--	10	110	24	3.3	7.0	4.9	105	0

DATE	ALKALINITY AS CACO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	NITRATE (N) (MG/L)	DIS- SOLVED- PHOSPHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT.										
01...	82	9.4	.6	.2	--	.3	.14	--	168	157
NOV.										
16...	81	1.2	1.4	.3	--	.7	.11	20	158	150
JAN.										
20...	82	7.3	1.2	.4	--	.6	.19	10	155	155
MAR.										
23...	80	6.7	2.0	.2	--	.6	.16	10	150	151
MAY										
19...	87	8.6	1.8	.4	--	.5	.16	10	163	164
JULY										
21...	83	4.8	1.2	.5	.31	--	.20	20	--	155
SEP.										
21...	86	5.8	1.2	.3	.44	--	.19	30	--	157

DATE	DIS- SOLVED SOLIDS (TONS AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)
OCT. 01...	.23	86.2	72	0	.4	188	8.0	--	--	--
NOV. 16...	.21	81.9	68	0	.4	180	8.0	--	1.1	.00
JAN. 20...	.21	80.8	67	0	.4	183	8.0	2	.8	--
MAR. 23...	.20	82.2	70	0	.4	180	8.2	--	4.0	--
MAY 19...	.22	90.7	80	0	.4	194	8.2	1	1.3	.00
JULY 21...	.21	79.1	73	0	.4	176	8.0	20	1.5	--
SEP. 21...	.21	75.0	73	0	.4	178	7.7	10	.6	--

[illegible]

PLATTE RIVER BASIN

06775900 DISMAL RIVER NEAR THEDFORD, NEBR.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	ENDRIN	ENDRIN IN BOTTOM DE- POSITS	HEPTA- CHLOR	HEPTA- CHLOR IN BOTTOM DE- POSITS	HEPTA- CHLOR EPOXIDE	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS	LINDANE	LINDANE IN BOTTOM DE- POSITS	2,4-D	2,4,5-T	SILVEX	PARA- THION
DATE	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
OCT. 01...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 16...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 19...	--	--	--	--	--	--	--	--	--	--	--	--
	PARA- THION IN BOTTOM DE- POSITS	METHYL PARA- THION	METHYL PARA- THION IN BOT- TOM DE- POSITS	MALA- THION	MALA- THION IN BOTTOM DE- POSITS	DI- AZINON	DI- AZINON IN BOTTOM DE- POSITS	DIS- SOLVED ARSENIC (AS)	DIS- SOLVED BARIUM (BA)	DIS- SOLVED BERYL- LIUM (BE)	DIS- SOLVED CAD- MIUM (CD)	
DATE	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	
OCT. 01...	--	--	--	--	--	--	--	3	--	--	0	
NOV. 16...	.00	.00	.00	.00	.00	.00	.00	0	0	--	0	
MAY 19...	--	--	--	--	--	--	--	10	0	0	0	
	DIS- SOLVED CHRO- MIUM (CR)	HEXA- VALENT CHRO- MIUM (CR6)	DIS- SOLVED COBALT (CO)	DIS- SOLVED COPPER (CU)	DIS- SOLVED LEAD (PB)	DIS- SOLVED LITHIUM (LI)	DIS- SOLVED MERCURY (HG)	TOTAL MERCURY (HG)	DIS- SOLVED MOLY- BDENUM (MO)	DIS- SOLVED NICKEL (NI)	DIS- SOLVED SELE- NIUM (SE)	
DATE	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	
OCT. 01...	0	0	0	--	0	--	.1	.2	--	--	--	
NOV. 16...	0	--	--	0	0	--	.0	--	1	2	0	
MAY 19...	0	--	0	33	0	4	.0	--	19	1	0	
	DIS- SOLVED SILVER (AG)	DIS- SOLVED STRON- TIUM (SR)	DIS- SOLVED VANA- DIUM (V)	DIS- SOLVED ZINC (ZN)	DIS- SOLVED GROSS ALPHA AS U-NAT.	SUS- PENDE GROSS ALPHA AS U-NAT.	DIS- SOLVED GROSS BETA AS SR90 /Y90	SUS- PENDE GROSS BETA AS SR90 /Y90	DIS- SOLVED RA-226 (RADON METHOD)	TOTAL FILT- RABLE RESIDUE	TOTAL NON- FILT- RABLE RESIDUE	
DATE	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(PC/L)	(PC/L)	(PC/L)	(MG/L)	(MG/L)	
OCT. 01...	--	--	--	0	--	--	--	--	--	--	--	
NOV. 16...	0	--	8.3	--	<1.6	4.6	5.1	3.8	.06	140	120	
MAY 19...	1	400	4.0	10	--	--	--	--	--	--	--	

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
NOV. 16...	192	179	7.7	9.0	10	10.9	20
JAN. 20...	193	179	7.8	4.5	--	10.6	8
MAR. 23...	203	168	7.7	4.5	20	10.8	5
MAY 19...	206	179	8.0	11.5	--	9.0	440
JULY 21...	189	197	7.9	22.0	--	8.0	48
SEP. 21...	177	177	8.0	10.5	10	9.1	190

06777000 MIDDLE LOUP RIVER NEAR MILBURN, NEBR.

LOCATION.--Lat 41°49'02", long 99°58'15", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.21 N., R.23 W., Blaine County, at Laughran bridge 9 miles upstream from Rifle Creek and 15 miles northwest of Milburn.

DRAINAGE AREA.--3,690 sq mi, approximately, of which 135 sq mi contributes directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: February 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO ₃) (MG/L)	CAR-BONATE (CO ₃) (MG/L)	ALKA-LINITY AS CaCO ₃ (MG/L)
OCT. 09...	787	60	60	25	3.4	6.7	5.5	98	0	81
DATE	SULFATE (SO ₄) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT. 09...	8.6	.9	.3	.19	.010	.01	.5	.20	.16	0
DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 09...	160	161	.22	340	76	0	.3	182	7.9	17

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT. 09...	787	172	7.9	4.0	10	12.1
16...	760	176	7.9	6.5	10	10.8
28...	801	171	8.2	6.5	15	11.5
NOV. 03...	782	171	7.8	3.0	15	12.7
17...	832	218	8.0	5.0	15	11.4
24...	763	179	7.7	.5	15	12.4
DEC. 03...	893	167	8.1	4.0	35	11.1
08...	766	178	7.9	3.0	20	--
17...	818	172	7.8	.5	15	12.2
29...	788	178	7.8	.0	10	12.3
JAN. 19...	738	189	7.2	.5	10	12.0
FEB. 08...	692	168	7.2	.5	10	13.3
MAR. 22...	943	168	7.9	3.0	21	13.2
APR. 12...	817	180	8.0	13.0	15	11.1
MAY 18...	885	188	8.1	12.5	20	9.9
JUNE 07...	814	176	8.1	19.5	20	8.5
JULY 08...	707	173	8.0	19.5	30	8.3
14...	752	162	8.6	25.5	20	7.5
22...	693	179	8.1	24.0	25	7.2
29...	734	173	8.2	19.0	20	8.1
AUG. 04...	686	177	8.0	21.5	20	7.8
11...	716	173	8.2	24.0	20	7.3
18...	686	172	8.1	24.5	20	7.2
26...	663	168	8.0	22.5	15	7.9
SEP. 01...	725	172	8.1	20.5	25	2.5
09...	769	162	8.1	21.0	15	8.1
14...	751	174	8.2	14.0	15	9.0
20...	720	177	8.1	17.0	15	9.7
30...	699	157	8.0	18.0	10	8.0

06778500 MIDDLE LOUP RIVER NEAR COMSTOCK, NEBR.

LOCATION.--Lat 41°28'49", long 99°12'43", in NE1/4NE1/4 sec.1, T.17 N., R.17 W., Custer County, at bridge on Custer-Valley County line 0.3 mile downstream from diversions for canals 3 and 4, 1.3 miles south of Burlington Northern Inc. crossing, and 5.5 miles southeast of Comstock.

DRAINAGE AREA.--4,650 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE- SIUM (MG)	SODIUM (NA) (MG/L)	PO-TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CaCO3 (MG/L)
OCT. 09...	1020	57	10	30	3.8	6.7	5.5	110	0	90
DATE	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT. 09...	8.8	1.0	.3	.35	.020	.04	.5	.30	.15	0
DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC CONO- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)
OCT. 09...	169	170	.23	465	90	0	.3	190	8.0	20

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	SPECI- FIC CONO- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT. 09...	1020	188	8.2	2.0	20	13.1
14...	993	193	7.8	7.0	110	10.3
27...	1290	172	8.0	4.5	35	11.2
NOV. 02...	961	189	7.9	2.5	20	11.8
18...	989	187	7.8	5.5	20	11.3
DEC. 03...	998	186	8.1	6.0	30	11.4
08...	932	200	8.3	4.5	30	--
17...	680	181	7.8	.5	25	12.2
30...	500	206	7.7	.5	9	12.0
JAN. 20...	876	191	7.7	.0	15	11.4
FEB. 10...	982	213	7.6	.0	9	11.3
MAR. 25...	832	--	7.8	.0	30	12.7
APR. 14...	451	200	8.1	16.5	15	9.6
MAY 20...	637	217	8.2	18.0	--	9.8
JUNE 07...	721	210	8.4	26.0	20	8.4
JULY 08...	175	190	8.3	24.5	20	8.6
13...	82	202	8.2	25.0	15	8.0
20...	76	208	8.3	24.5	15	7.7
30...	69	212	8.3	19.5	10	8.8
AUG. 04...	64	213	8.3	21.5	10	8.2
10...	68	207	8.4	24.5	10	7.8
18...	67	17	8.5	30.5	10	7.6
24...	73	217	8.2	24.0	10	8.1
31...	260	202	8.0	24.0	15	7.7
SEP. 07...	87	200	8.4	29.0	15	9.3
14...	82	199	8.5	20.0	10	8.9
21...	84	199	8.4	13.0	10	9.9
30...	195	184	8.3	21.5	15	7.9

06785000 MIDDLE LOUP RIVER AT ST. PAUL, NEBR.

LOCATION.--Lat 41°11'55", long 98°26'50", in NE 1/4 sec.10, T.14 N., R.10 W., Howard County, at gaging station 450 ft upstream from bridge on U.S. Highway 281 and 6 miles upstream from confluence with North Loup River.

DRAINAGE AREA.--7,720 sq mi, approximately, of which about 3,200 sq mi contributes directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NESIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CACO ₃ (MG/L)
OCT. 05...	886	58	50	39	32	5.3	8.8	8.0	144	0	118

DATE	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT. 05...	7.6	2.2	.4	.36	.020	.01	.00	.31	.09	20

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)
OCT. 05...	191	193	.26	457	100	0	.4	283	7.9	5

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 05...	4	1	0	0	0	0	.0	7

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT. 05...	886	249	8.5	22.0	20	8.4
15...	1030	254	8.2	12.5	35	10.6
22...	971	271	8.3	13.5	30	9.8
28...	1190	245	8.2	6.0	40	11.2
NOV. 02...	1070	249	7.6	3.0	40	12.0
17...	1080	264	8.1	8.5	40	11.0
25...	327	340	8.2	.5	20	12.1
DEC. 01...	2090	224	8.1	7.5	90	11.2
08...	1180	252	7.9	6.0	40	12.0
16...	842	299	7.9	.0	25	13.0
29...	700	312	8.0	1.0	10	12.3
JAN. 14...	954	305	7.6	.0	10	10.5
FEB. 16...	1450	209	7.6	2.0	15	11.0
MAR. 25...	1270	270	7.8	.0	50	12.4
APR. 14...	710	297	8.3	20.0	30	9.4
MAY 27...	568	300	8.4	22.5	--	9.0
JUNE 07...	1110	299	8.4	22.5	150	8.1
JULY 06...	648	273	7.2	29.0	200	7.7
13...	331	347	8.8	28.0	60	8.5
21...	239	323	8.1	26.5	50	7.7
29...	237	313	8.4	20.0	45	8.3
AUG. 03...	240	324	8.5	26.0	40	8.4
12...	168	337	8.3	22.5	35	8.0
17...	192	319	8.3	27.0	30	7.5
25...	174	313	8.3	25.0	40	8.4
SEP. 02...	445	279	8.5	29.0	65	7.6
09...	158	323	8.5	24.0	25	8.5
16...	189	313	8.3	14.5	30	9.5
23...	264	321	8.3	11.0	30	10.5
28...	432	312	8.3	22.0	30	9.0

PLATTE RIVER BASIN

06799500 LOGAN CREEK NEAR UEHLING, NEBR.

LOCATION.--Lat 41°42'50", long 96°31'15", in SE¹SE¹ sec.9, T.20 N., R.8 E., Dodge County, at gaging station at bridge on county road 2 miles southwest of Uehling and 8 miles upstream from mouth.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)
OCT.										
19...	66	19	700	1000	590	100	27	27	8.4	376
NOV.										
30...	106	19	--	90	--	70	24	50	6.2	353
DEC.										
21...	45	26	--	180	--	120	30	33	6.9	449
JAN.										
12...	55	25	--	20	500	100	27	27	6.2	364
FEB.										
02...	45	23	--	0	--	110	26	28	7.0	383
24...	972	5.2	--	50	--	36	7.4	5.2	13	117
MAR.										
22...	207	16	--	160	--	91	22	23	9.1	338
APR.										
28...	125	5.9	--	30	--	89	27	28	7.5	356
MAY										
24...	128	13	--	0	--	93	27	36	8.4	370
JUNE										
16...	284	15	1400	30	30	74	16	14	10	259
JULY										
20...	137	16	--	30	0	64	24	23	7.2	258
AUG.										
10...	98	13	--	20	50	75	26	26	6.3	306
SEP.										
21...	68	13	200	20	0	81	25	25	5.7	325

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS PER AC-FT)	DIS- SOLVED SOLIDS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)
OCT.									
19...	478	.66	86.6	360	50	.6	743	7.9	2
NOV.									
30...	447	.62	131	270	0	1.3	700	7.9	1
DEC.									
21...	570	.77	69.1	430	62	.7	849	8.2	1
JAN.									
12...	487	.66	72.3	360	63	.6	734	8.1	6
FEB.									
02...	506	.69	62.1	380	66	.6	748	7.9	--
24...	178	.24	467	120	24	.2	276	8.0	--
MAR.									
22...	435	.59	242	320	41	.6	669	8.0	--
APR.									
28...	442	.61	151	330	39	.7	699	8.0	--
MAY									
24...	488	.75	192	340	38	.8	705	8.0	--
JUNE									
16...	347	.47	266	250	38	.4	567	7.8	20
JULY									
20...	367	.50	136	260	47	.6	581	7.8	20
AUG.									
10...	396	.54	105	290	43	.7	614	7.8	10
SEP.									
21...	416	.57	76.4	310	39	.6	690	8.0	8

PLATTE RIVER BASIN

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06799500 LOGAN CREEK NEAR UEHLING, NEBR.--Continued

DRAINAGE AREA.--1,030 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CaCO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	NITRATE (N) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT. 19...	0	309	96	9.4	.1	--	1.0	.27	80	486
NOV. 30...	0	290	95	8.8	.3	--	.00	--	90	457
DEC. 21...	0	368	110	10	.4	--	1.3	--	110	569
JAN. 12...	0	298	110	12	.4	--	1.0	.09	70	487
FEB. 02...	0	314	100	8.8	.2	--	2.8	.40	40	510
24...	0	96	22	6.1	.3	--	5.7	.17	30	178
MAR. 22...	0	277	86	11	.2	--	2.2	.37	580	433
APR. 28...	0	292	100	8.8	.2	--	.00	.13	60	447
MAY 24...	0	304	110	11	.3	--	.7	.14	90	555
JUNE 16...	0	212	76	4.7	.5	1.8	--	.12	60	--
JULY 20...	0	212	100	5.3	.5	.00	--	.06	90	--
AUG. 10...	0	251	93	5.7	.3	.00	--	.14	100	--
SEP. 21...	0	267	97	7.9	.8	.07	--	.16	120	--

DATE	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 19...	32	8.5	--	1.8	460
JAN. 12...	30	.8	--	3.3	60
SEP. 21...	27	--	.1	1.9	20

PLATTE RIVER BASIN

06800500 ELKHORN RIVER AT WATERLOO, NEBR.

LOCATION.--Lat 41°17'25", long 96°17'05", in SW $\frac{1}{4}$ sec.3, T.15 N., R.10 E., Douglas County, at gaging station at bridge at north edge of Waterloo, 3.5 miles downstream from Rawhide Creek.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)
OCT.										
13...	817	19	200	100	42	58	13	21	18	212
14...	764	25	1300	90	35	70	17	28	10	280
NOV.										
12...	665	26	--	100	--	66	15	23	8.2	257
DEC.										
16...	489	33	--	200	--	86	19	28	8.2	325
JAN.										
25...	403	33	--	0	--	76	16	26	7.5	288
FEB.										
12...	390	35	--	220	--	82	17	28	8.5	295
24...	7760	6.5	--	10	--	31	5.8	4.7	13	101
APR.										
16...	1140	26	--	480	--	69	15	20	8.8	273
MAY										
25...	1110	21	--	20	--	69	16	22	8.5	295
JUNE										
25...	1430	27	900	30	0	54	13	17	8.0	253
JULY										
15...	1720	20	--	50	9	46	11	13	9.7	195
AUG.										
19...	464	24	--	10	0	72	15	26	7.7	291
SEP.										
14...	311	25	100	10	240	75	17	28	7.5	288

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)
OCT.									
13...	319	.44	710	200	26	.6	503	7.8	21
14...	374	.51	774	240	15	.8	585	7.8	8
NOV.									
12...	327	.45	596	230	16	.7	516	8.1	2
DEC.									
16...	414	.56	545	290	24	.7	639	8.1	2
JAN.									
25...	382	.53	422	250	18	.7	568	7.9	--
FEB.									
12...	404	.55	425	270	31	.7	602	7.9	--
24...	161	.22	3370	100	19	.2	251	8.1	--
APR.									
16...	324	.45	1020	230	8	.6	503	7.9	--
MAY									
25...	336	.48	1050	240	0	.6	537	7.8	--
JUNE									
25...	--	--	--	190	0	.5	486	7.3	40
JULY									
15...	247	.34	1150	160	0	.4	396	7.2	50
AUG.									
19...	357	.49	447	240	3	.7	591	7.5	20
SEP.									
14...	373	.51	313	260	21	.8	605	7.7	20

DATE	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT.					
13...	25	2.5	--	.4	50
SEP.					
14...	14	--	.6	5.6	40

PLATTE RIVER BASIN

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06800500 ELKHORN RIVER AT WATERLOO, NEBR.--Continued

DRAINAGE AREA.--6,900 sq mi, approximately, of which about 5,900 sq mi contributes directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	NITRATE (N) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	
OCT.											
13...	0	174	40	19	.0	--	5.6	1.1	60	322	
14...	0	230	65	17	.4	--	.6	.43	90	375	
NOV.											
12...	0	211	44	11	.3	--	1.7	--	80	332	
DEC.											
16...	0	267	58	16	.3	--	1.5	--	110	413	
JAN.											
25...	0	236	50	18	.0	--	2.8	.39	50	388	
FEB.											
12...	0	242	54	19	.2	--	3.5	.54	50	404	
24...	0	83	14	6.3	.2	--	6.6	.04	30	161	
APR.											
16...	0	224	41	9.6	.3	--	.1	.45	20	332	
MAY											
25...	0	242	44	11	.3	--	.00	.35	40	350	
JUNE											
25...	0	--	--	7.7	.3	.12	--	.40	70	--	
JULY											
15...	0	160	30	7.2	.7	3.0	--	.40	60	--	
AUG.											
19...	0	239	55	13	.6	.09	--	.45	100	--	
SEP.											
14...	0	236	59	18	.4	.21	--	.44	70	--	
DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM				
FEB.											
21...	1110	1.0	37200	6020	605000	24	25				
24...	1325	.0	7780	1660	34900	32	34				
JUNE											
11...	1300	24.5	15700	15400	653000	39	48				
DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM	
FEB.											
21...	28	34	40	87	99	100	--				
24...	41	65	77	93	97	97	100				
JUNE											
11...	62	92	96	99	100	--	--				
DATE	TIME	TEMP- ERATURE (DEG C)	NUMBER OF SAM- PLING POINTS	DIS- CHARGE (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	BED MAT. FALL DIAM. % FINER THAN 4.00 MM
FEB.											
21...	1110	1.0	6	37200	2	8	38	84	96	99	100
JUNE											
11...	1300	24.5	5	15700	0	1	6	66	98	100	--

06803080 SALT CREEK ABOVE BEAL SLOUGH, AT LINCOLN, NEBR.

LOCATION.--Lat 40°46'13", long 96°43'05", in SW¹SW¹ sec.2, T.9 N., R.6 E., Lancaster County, at county road bridge 0.9 mile west of U.S. Highway 77 and of northeast corner of State Penitentiary at Lincoln.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)
MAR.											
16...	90	9.3	--	10	310	48	13	39	11	199	0
31...	30	12	--	80	380	78	20	88	8.7	305	0
APR.											
13...	86	4.8	--	--	270	57	13	46	12	227	0
27...	14	14	--	20	470	94	23	162	7.0	316	0
MAY											
12...	226	8.5	--	70	380	33	8.0	20	8.7	130	0
JUNE											
15...	22	20	300	20	220	70	17	89	7.7	284	0
JULY											
01...	14	18	100	20	370	94	21	160	9.0	252	0
27...	16	--	--	--	--	59	14	70	7.8	211	0
AUG.											
12...	5.6	16	100	10	260	92	24	150	7.4	300	0
26...	3.8	--	--	--	--	86	19	180	8.0	292	0
SEP.											
10...	5.1	11	200	5	740	100	24	210	7.8	317	0
22...	6.1	--	--	--	--	120	29	320	8.3	293	0

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL RESIDUE (MG/L)	LOSS ON IGNITION (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)
MAR.										
16...	.52	.14	50	317	306	.43	77.0	490	130	--
31...	.55	.36	100	552	544	.75	45.0	620	136	--
APR.										
13...	.38	.02	90	354	345	.48	82.2	582	94	--
27...	.41	.21	110	818	800	1.11	30.9	904	118	--
MAY										
12...	2.0	.07	60	216	207	.29	132	2820	304	--
JUNE										
15...	.60	.40	80	584	531	.79	35.3	520	174	592
JULY										
01...	.35	.28	--	778	778	1.06	30.0	834	102	814
27...	.55	.25	--	444	--	.60	19.5	586	130	456
AUG.										
12...	.39	.26	--	794	778	1.08	12.0	888	174	808
26...	.22	.15	--	824	--	1.12	8.50	844	134	844
SEP.										
10...	.29	.20	--	974	961	1.32	13.4	1030	134	980
22...	.19	.20	--	1420	--	1.93	23.4	1500	250	1520

DATE	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL FILTRABLE RESIDUE (MG/L)
MAR.									
16...	--	0	--	--	--	--	--	--	--
31...	--	0	--	--	--	--	--	--	--
APR.									
13...	--	0	--	--	--	--	--	--	--
27...	--	0	--	--	--	--	--	--	--
MAY									
12...	--	0	--	--	--	--	--	--	--
JUNE									
15...	--	0	0	--	--	--	--	--	592
JULY									
01...	0	--	0	20	4	.4	4	30	814
27...	--	--	0	--	--	--	--	--	456
AUG.									
12...	1	--	0	8	1	.3	0	0	808
26...	--	--	0	--	--	--	--	--	844
SEP.									
10...	0	--	0	1	0	.0	0	10	980
22...	--	--	0	--	--	--	--	--	1520

DRAINAGE AREA.--221 sq mi.

PERIOD OF RECORD.--Chemical analyses: March to September 1971.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	ALKALINITY AS CaCO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	NITRITE (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	NITRATE (N) (MG/L)
MAR.											
16...	163	50	33	.4	.00	--	--	.020	--	.18	.9
31...	250	94	91	.3	.52	--	--	.020	--	.08	.1
APR.											
13...	186	57	41	.3	1.3	--	--	.040	--	.00	.2
27...	259	130	220	.4	.62	--	--	.020	--	.00	.1
MAY											
12...	107	32	15	.5	7.0	--	--	.12	--	.51	2.1
JUNE											
15...	233	70	110	.5	.67	--	--	.030	1.3	.23	1.3
JULY											
01...	207	130	220	.5	.38	--	--	.000	.29	.11	.3
27...	173	76	87	.6	.13	--	--	--	.72	.29	--
AUG.											
12...	246	140	200	.5	.38	.62	.55	--	.07	.17	--
26...	240	150	240	.4	.49	.70	.66	--	.04	.17	--
SEP.											
10...	260	170	280	.9	.37	.58	.57	--	.01	.20	--
22...	240	250	470	.6	.24	.34	.33	--	.01	.09	--

DATE	VOL. NON-SETTLABLE RESIDUE (MG/L)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
MAR.										
16...	57	170	9	1.3	569	7.8	30	3.9	.00	.00
31...	112	280	28	2.3	885	8.2	18	4.3	.00	--
APR.										
13...	37	190	9	1.4	584	8.0	25	6.3	.00	--
27...	53	330	70	3.9	1470	8.2	13	3.8	.00	--
MAY										
12...	67	120	8	.8	347	8.0	120	9.2	.01	--
JUNE										
15...	252	240	12	2.5	817	7.5	20	9.3	.00	--
JULY										
01...	134	320	110	3.9	1370	7.6	20	16	.00	.00
27...	100	200	32	2.1	732	7.5	50	4.2	--	--
AUG.										
12...	136	330	82	3.6	1250	7.2	9	2.0	.00	.00
26...	122	290	53	4.6	1410	7.4	20	6.7	--	--
SEP.										
10...	148	350	88	4.9	1690	7.7	20	2.8	.00	.00
22...	230	420	180	6.8	2380	7.7	10	1.9	--	--

[illegible]

PLATTE RIVER BASIN

06803080 SALT CREEK ABOVE BEAL SLOUGH, AT LINCOLN, NEBR.--Continued

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	MALA- THION (UG/L)	DI- AZINON (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)
MAR.									
16...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
APR.									
13...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
MAY									
12...	--	--	--	--	--	--	--	--	--
JUNE									
15...	.34	.11	.00	.00	.00	.00	.00	--	--
JULY									
01...	--	--	--	--	--	--	--	9	0
27...	.06	.02	.00	--	--	--	--	--	--
AUG.									
12...	.34	1.0	.00	--	--	--	--	0	300
26...	--	--	--	--	--	--	--	--	--
SEP.									
10...	.00	.00	.00	--	--	--	--	0	300
22...	--	--	--	--	--	--	--	--	--

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
MAR.								
16...	90	7.4	5.0	65	12.0	2200	300	--
31...	30	7.8	15.0	25	11.5	80	13	--
APR.								
13...	86	7.3	12.0	65	9.4	320	300	--
27...	14	7.9	14.5	25	11.0	2300	700	--
MAY								
12...	226	7.0	12.5	900	7.0	--	--	--
JUNE								
15...	22	7.4	24.5	110	7.0	2000	1700	--
JULY								
01...	14	7.5	25.5	30	7.9	7800	3400	1500
27...	16	7.5	19.5	85	6.9	6000	1800	1500
AUG.								
12...	5.6	7.6	21.0	30	6.2	3300	540	420
26...	3.8	7.2	20.0	20	6.3	2900	490	960
SEP.								
10...	5.0	6.9	17.0	20	6.6	24000	650	2300
22...	6.1	6.6	14.0	10	8.1	2800	420	500

06803180 MIDDLE CREEK AT LINCOLN, NEBR.

LOCATION.--Lat 40°48'17", long 96°45'00", in NE 1/4 sec.28, T.10 N., R.6 E., Lancaster County, at bridge on Coddington Street 0.7 mile south of U.S. Highway 34 on west edge of Lincoln.

DRAINAGE AREA.--98.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: July to September 1971.

WATER QUALITY DATA, JULY TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)
JULY												
29...	2.2	80	1300	76	21	350	7.3	410	0	336	97	450
AUG.												
24...	1.8	20	740	76	19	350	8.8	406	0	333	76	460
SEP.												
22...	1.9	20	530	77	18	330	7.3	407	0	334	99	390

PLATTE RIVER BASIN

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06803180 MIDDLE CREEK AT LINCOLN, NEBR.--Continued

WATER QUALITY DATA, JULY TO SEPTEMBER 1971

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL RESIDUE (MG/L)
JULY 29...	.6	.00	--	--	.29	1.2	.55	.40	1220	1.66	7.38	1240
AUG. 24...	.6	.23	2.5	1.4	1.1	1.2	.80	.62	1180	1.60	5.83	1220
SEP. 22...	.6	.03	1.5	.80	.70	.77	.40	.37	1140	1.55	5.97	1290

DATE	LOSS ON IGNITION (MG/L)	TOTAL FILTERABLE RESIDUE (MG/L)	VOL. NON-SETTLABLE RESIDUE (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)
JULY 29...	144	1240	76	280	0	9.2	2060	7.5	10	3.0	0
AUG. 24...	156	1190	136	270	0	9.3	2060	7.7	20	7.0	0
SEP. 22...	420	1210	120	270	0	8.8	2090	7.4	20	4.4	0

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
JULY 29...	2.2	7.5	18.5	10	7.0	50000	12000	1400
AUG. 24...	1.8	7.4	27.0	25	7.2	110000	550	680
SEP. 22...	1.9	6.6	14.0	5	6.0	58000	7300	2400

06803190 SALT CREEK AT 14TH STREET, AT LINCOLN, NEBR.

LOCATION.--Lat 40°50'03", long 96°42'03", in NE 1/4 sec.14, T.10 N., R.6 E., Lancaster County, at bridge at 14th Street at Lincoln, 0.3 mile upstream from confluence with Oak Creek and 2.1 miles downstream from Middle Creek.

DRAINAGE AREA.--411 sq mi.

PERIOD OF RECORD.--Chemical analyses: March to September 1971.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)
MAR. 15...	247	8.8	--	--	--	--	209	12	200	0	164
APR. 13...	216	--	--	--	--	--	--	--	222	0	182
MAY 12...	399	--	--	--	--	--	--	--	169	0	138
JULY 28...	37	--	50	220	73	33	1600	10	306	0	251
AUG. 24...	21	--	20	440	100	42	2300	15	353	0	290
SEP. 23...	17	--	20	120	140	51	2800	14	396	0	325

PLATTE RIVER BASIN

06803190 SALT CREEK AT 14TH STREET, AT LINCOLN, NEBR.--Continued

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJEL- DAHL NITROGEN (N) (MG/L)	NITRITE (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	NITRATE (N) (MG/L)
MAR. 15...	75	290	.4	3.1	--	--	.020	--	.29	1.0
APR. 13...	84	360	--	1.4	--	--	.070	--	.48	.1
MAY 12...	65	140	--	5.2	--	--	.17	--	.39	1.9
JULY 28...	320	2200	.7	.20	1.6	.80	--	.76	.60	--
AUG. 24...	490	3300	.9	.52	1.7	1.2	--	.47	.68	--
SEP. 23...	620	4100	.7	.12	1.5	1.1	--	.35	.98	--

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)	TOTAL FILTY- RABLE RESIDUE (MG/L)
MAR. 15...	.44	.15	130	759	697	1.03	506	1120	138	--
APR. 13...	.36	.02	--	920	--	1.25	537	1258	176	--
MAY 12...	1.6	.05	--	501	--	.68	540	2590	286	--
JULY 28...	.40	.35	--	4430	--	6.02	445	4490	172	4460
AUG. 24...	.40	.35	--	6240	--	8.49	362	6120	140	6320
SEP. 23...	.37	.30	--	7820	--	10.6	374	8040	420	8200

DATE	VOL. NON- SETTLE- ABLE RESIDUE (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	HEXA- VALENT CHROMIUM (CR6) (UG/L)
MAR. 15...	33	190	28	6.6	1330	7.7	20	3.8	.00	--
APR. 13...	89	200	18	--	1580	7.8	30	4.6	--	--
MAY 12...	98	170	33	--	825	7.7	50	9.6	--	--
JULY 28...	186	320	67	39	7520	7.3	20	1.8	--	0
AUG. 24...	120	420	130	49	--	7.8	10	2.5	--	0
SEP. 23...	780	560	230	52	13600	7.7	9	3.4	--	1

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
MAR. 15...	247	7.6	7.0	75	11.2	900	360	--
APR. 13...	216	7.6	12.5	75	10.3	720	160	--
MAY 12...	399	7.4	14.5	480	8.2	--	--	--
JULY 28...	37	7.2	18.5	25	9.2	19000	1100	1300
AUG. 24...	21	7.4	22.5	5	9.4	22000	1000	1000
SEP. 23...	17	6.9	10.0	4	11.0	5000	500	100

PLATTE RIVER BASIN

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06803300 ANTELOPE CREEK AT 27TH STREET, AT LINCOLN, NEBR.

LOCATION.--Lat 40°48'10", long 96°40'56", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.25, T.10 N., R.6 E., Lancaster County, at bridge at 27th and Alpha Streets at Lincoln.

DRAINAGE AREA.--10.6 sq mi.

PERIOD OF RECORD.--Chemical analyses: July to September 1971.

WATER QUALITY DATA, JULY TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CaCO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
JULY 29...	.05	40	100	71	16	79	11	219	0	180	120	87
AUG. 24...	.13	50	190	80	17	82	13	222	0	182	110	140
SEP. 22...	.01	40	70	72	15	53	12	236	0	194	120	37

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL RESIDUE (MG/L)
JULY 29...	1.1	.35	--	--	.69	.32	.45	.32	544	.74	.08	648
AUG. 24...	1.2	.54	1.2	.79	.37	.25	.40	.35	584	.79	.20	610
SEP. 22...	1.2	.40	.85	.59	.26	.19	.46	.44	462	.63	.01	478

DATE	LOSS ON IGNITION (MG/L)	TOTAL FILTERABLE RESIDUE (MG/L)	VOL. NON-SETTLABLE RESIDUE (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)
JULY 29...	116	562	134	240	63	2.2	823	7.8	20	4.5	1	0
AUG. 24...	120	604	92	270	88	2.2	946	7.5	20	5.7	0	0
SEP. 22...	144	478	112	240	48	1.5	707	7.5	30	1.6	0	0

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREP-TOCOCCI (COLONIES PER 100 ML)
JULY 29...	.05	7.6	17.5	6	6.9	17000	3200	3500
AUG. 24...	.13	7.3	22.5	5	5.0	2900	830	2000
SEP. 22...	.01	6.1	13.0	5	5.7	250	33	200

06803405 ANTELOPE CREEK AT COURT STREET, AT LINCOLN, NEBR.

LOCATION.--Lat 40°49'44", long 96°41'58", in SW¹/₄SW¹/₄ sec.13, T.10 N., R.6 E., Lancaster County, at bridge on Court Street at Lincoln, 0.1 mile upstream from confluence with Salt Creek.

DRAINAGE AREA.--12.4 sq mi.

PERIOD OF RECORD.--Chemical analyses: March to September 1971.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN- GANESE (MN) (UG/L)	DIS-SOLVED CAL- CIUM (CA) (MG/L)	DIS-SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO-TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CACO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)
MAR. 16...	1.8	32	40	--	--	--	1150	13	276	0	226	260
APR. 14...	1.5	--	--	--	--	--	--	--	285	0	234	360
MAY 12...	2.3	--	--	--	--	--	--	--	269	0	221	270
JULY 29...	2.4	--	40	640	160	28	800	11	249	0	204	350
AUG. 24...	3.2	--	20	70	110	27	690	14	230	0	189	300
SEP. 23...	1.8	--	20	100	130	36	1400	11	284	0	233	500

DATE	CHLO- RIDE (CL) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	NITRITE (N) (MG/L)	NITRATE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS-SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
MAR. 16...	1700	.7	.24	--	--	.060	--	.14	3.3	.51	.63	230
APR. 14...	2300	--	.32	--	--	.090	--	.07	3.9	.71	.72	--
MAY 12...	1500	--	.35	--	--	.030	--	.14	3.3	1.2	.58	--
JULY 29...	1200	1.2	.00	--	--	--	1.9	.64	--	.90	.85	--
AUG. 24...	1000	1.2	.09	2.6	.50	--	2.1	.41	--	.30	.25	--
SEP. 23...	2100	.8	.01	3.6	.34	--	3.3	.33	--	.42	.40	--

DATE	DIS-SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	VOL. NON- SETTLE- ABLE RESIDUE (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON-CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO
MAR. 16...	3370	3320	4.58	16.7	3360	172	--	136	420	200	24
APR. 14...	4450	--	6.05	18.0	4404	216	--	70	490	260	--
MAY 12...	3130	--	4.26	20.2	3100	144	--	148	400	180	--
JULY 29...	2620	--	3.56	17.0	2640	350	2690	210	510	310	15
AUG. 24...	2220	--	3.02	19.3	2190	260	2240	130	390	200	15
SEP. 23...	4600	--	6.26	22.7	4580	400	5040	1400	470	240	28

DATE	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE GROSS BETA AS SR90 /Y90 (PC/L)
MAR. 16...	5610	7.7	15	2.4	.49	410	410	--	--	--	--
APR. 14...	7180	8.0	2	3.8	--	6	3	--	--	--	--
MAY 12...	5150	8.0	10	5.6	--	0	0	--	--	--	--
JULY 29...	4520	7.9	10	2.3	--	0	2	--	--	--	--
AUG. 24...	3730	8.3	10	1.6	--	0	0	23	<.4	16	2.0
SEP. 23...	7460	8.0	9	1.5	--	2	0	<45	<.4	<11	1.1

06803405 ANTELOPE CREEK AT COURT STREET, AT LINCOLN, NEBR.--Continued

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
MAR. 16...	1.8	7.2	9.0	10	13.3	17000	670	--
APR. 14...	1.5	7.3	10.0	7	15.6	1300	500	--
MAY 12...	2.3	7.6	20.5	25	9.9	830	480	--
JULY 29...	2.4	7.6	26.0	3	16.8	1900	90	680
AUG. 24...	3.2	7.7	23.0	6	13.6	1400	42	820
SEP. 23...	1.8	7.2	12.5	3	9.0	2400	180	480

06803480 OAK CREEK ABOVE AIR BASE, NEAR LINCOLN, NEBR.

LOCATION.--Lat 40°52'47", long 96°46'35", in SW1/4NW1/4 sec.32, T.11 N., R.6 E., Lancaster County, at bridge on U.S. Highway 34, 4 miles northwest of corporate boundary of Lincoln.

DRAINAGE AREA.--208 sq mi.

PERIOD OF RECORD.--Chemical analyses: July to September 1971.

WATER QUALITY DATA, JULY TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)
JULY 29...	7.5	40	1200	89	29	780	11	363	0	298	250	1100
AUG. 24...	4.7	30	1100	97	27	900	14	380	0	312	260	1400
SEP. 22...	4.2	40	670	100	30	1100	11	381	0	313	310	1500

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL RESI- DUE (MG/L)
JULY 29...	.6	.00	.38	--	.02	.36	.20	.10	2420	3.29	49.1	2510
AUG. 24...	.6	.42	.82	.75	.07	.33	.25	.20	2820	3.84	35.8	2760
SEP. 22...	.7	.19	.32	.30	.02	.11	.15	.13	3380	4.60	38.3	3420

DATE	LOSS ON IGNI- TION (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	VOL. NON- SETTLE- ABLE RESIDUE (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT DEMAND (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)
JULY 29...	80	2440	270	340	44	18	4120	7.9	10	1.8	0
AUG. 24...	270	2740	270	350	42	21	4680	8.1	10	2.4	0
SEP. 22...	840	3540	300	370	61	25	5820	7.9	10	1.8	0

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
JULY 29...	7.5	7.2	17.5	8	7.9	1600	530	280
AUG. 24...	4.7	7.6	24.0	4	12.1	750	370	240
SEP. 22...	4.2	6.6	14.0	4	11.0	1400	380	1000

PLATTE RIVER BASIN

06803493 OAK CREEK AT 14TH STREET, AT LINCOLN, NEBR.

LOCATION.--Lat 40°50'10", long 96°42'03", in SE 1/4 sec.14, T.10 N., R.6 E., Lancaster County, at bridge at 14th Street at Lincoln, 0.2 mile upstream from confluence with Salt Creek.

DRAINAGE AREA.--258 sq mi.

PERIOD OF RECORD.--Chemical analyses: March to September 1971.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	ALKALINITY AS CaCO ₃ (MG/L)
MAR. 15...	15	9.1	--	--	--	--	218	12	157	0	129
APR. 13...	17	--	--	--	--	--	--	--	395	11	343
MAY 12...	148	--	--	--	--	--	--	--	148	0	121
JULY 28...	7.5	--	10	1500	120	40	2400	14	444	0	364
AUG. 24...	7.6	--	20	1300	90	36	2200	17	421	0	345
SEP. 23...	6.5	--	20	710	140	45	3000	16	518	0	425

DATE	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	NITRITE (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	NITRATE (N) (MG/L)
MAR. 15...	53	320	.4	4.6	--	--	.030	--	1.1	1.0
APR. 13...	250	1800	--	.84	--	--	.010	--	.08	.00
MAY 12...	36	160	--	10	--	--	.10	--	.47	1.2
JULY 28...	430	3700	.7	.00	--	--	--	.06	.71	--
AUG. 24...	450	3100	.7	.30	.93	.85	--	.08	.55	--
SEP. 23...	550	4500	.7	.15	.67	.60	--	.07	.45	--

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL RESIDUE (MG/L)	LOSS ON IGNITION (MG/L)	TOTAL FILTERABLE RESIDUE (MG/L)
MAR. 15...	.04	.04	110	744	700	1.01	30.5	3530	444	--
APR. 13...	.42	.33	--	3660	--	4.98	173	3772	24	--
MAY 12...	3.5	.03	--	468	--	.64	187	7000	812	--
JULY 28...	.30	.15	--	6850	--	9.32	139	7400	950	6950
AUG. 24...	.40	.20	--	6060	--	8.24	125	5880	160	6080
SEP. 23...	.33	.25	--	8380	--	11.4	149	8780	220	8760

DATE	VOL. NON-SETTLABLE RESIDUE (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)
MAR. 15...	68	160	31	7.5	1340	7.6	30	7.9	.00	--
APR. 13...	56	390	45	--	6060	8.4	3	4.1	--	--
MAY 12...	38	140	19	--	823	7.3	50	8.0	--	--
JULY 28...	250	460	100	48	12800	7.9	20	2.4	--	3
AUG. 24...	240	370	28	50	10100	7.7	20	4.2	--	0
SEP. 23...	980	530	110	56	14200	7.8	10	1.9	--	0

06803493 OAK CREEK AT 14TH STREET, AT LINCOLN, NEBR.--Continued

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
MAR. 15...	15	7.3	6.0	850	9.6	2400	540	--
APR. 13...	17	7.7	16.0	10	18.7	1300	240	--
MAY 12...	148	7.2	11.0	1400	9.0	--	--	--
JULY 28...	7.5	7.6	20.5	25	3.6	6400	630	380
AUG. 24...	7.6	7.1	24.0	25	1.9	13000	470	400
SEP. 23...	6.5	6.9	10.5	7	7.0	6400	360	170

06803500 SALT CREEK AT LINCOLN, NEBR.

LOCATION.--Lat 40°50'49", long 96°40'54", in NW1/4 sec.7, T.10 N., R.7 E., Lancaster County, at gaging station at bridge on North 27th Street at north edge of Lincoln, 1 mile downstream from Oak Creek.

DRAINAGE AREA.--684 sq mi, approximately (revised).

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1971.

Water temperatures: May to September 1951, October 1968 to September 1971.

Sediment records: March to September 1951, March 1952 to September 1954.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 10,300 micromhos Aug. 29; minimum daily, 422 micromhos Mar. 12.

Water temperatures: Maximum, 35.5°C July 12; minimum, freezing point on several days during January and February.

Period of record:

Specific conductance: Maximum daily, 11,200 micromhos July 2, 30, 1970; minimum daily, 326 micromhos Mar. 18, 1969.

Water temperatures (1968-71): Maximum, 36°C July 12, 1969; minimum, freezing point on several days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO2) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT. 12...	200	14	--	30	238	50	13	400	14	180	0
NOV. 04...	69	24	--	60	590	100	33	1660	16	361	0
DEC. 09...	65	24	--	90	700	100	32	1455	16	401	0
JAN. 21...	64	30	--	90	730	110	32	1430	25	390	0
FEB. 03...	85	26	--	80	920	110	32	1380	19	373	0
MAR. 03...	104	21	--	80	780	91	25	870	17	332	0
15...	350	8.6	--	0	130	42	10	184	11	161	0
APR. 14...	143	13	--	60	270	79	22	570	15	292	0
MAY 13...	360	20	--	40	240	72	19	290	13	295	0
JUNE 30...	140	14	--	--	--	64	19	800	12	211	0
JULY 30...	65	--	--	140	350	120	32	1400	14	378	0
AUG. 26...	74	--	--	40	190	97	35	1800	17	327	0
SEP. 23...	63	25	200	50	300	120	35	1600	16	413	0

06803500 SALT CREEK AT LINCOLN, NEBR.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	ALKALINITY AS CACO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)
OCT. 12...	148	100	570	.1	.78	2.6	--	.040	--	.38	1.4
NOV. 04...	296	330	2400	.9	2.8	6.7	--	.050	--	3.4	.7
DEC. 09...	329	340	2100	.9	2.4	9.5	--	.67	--	6.0	.4
JAN. 21...	319	360	2000	1.0	3.6	9.9	--	.040	--	5.9	.4
FEB. 03...	306	330	2000	.8	.98	3.6	--	.37	--	1.2	1.0
MAR. 03...	272	220	1200	.6	.57	3.6	--	.080	--	2.8	1.0
APR. 15...	132	59	240	.3	2.9	3.8	--	.020	--	.77	1.1
MAY 14...	239	170	810	.7	1.6	5.1	--	1.3	--	1.8	.4
JUNE 13...	242	130	400	.8	6.1	13	--	.13	--	6.4	.3
JULY 30...	173	230	1200	.5	1.0	3.0	--	.040	.75	1.2	--
AUG. 30...	310	--	2400	1.3	.00	6.8	--	--	.85	5.9	--
SEP. 26...	268	450	2600	1.4	.40	6.4	5.7	--	.72	5.3	--
SEP. 23...	339	440	2500	1.0	.90	8.6	7.2	.020	1.4	6.3	1.4

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
OCT. 12...	.64	.47	190	1230	1260	1.67	664	--	--	--
NOV. 04...	3.2	2.8	40	4750	4740	6.46	890	--	--	--
DEC. 09...	3.8	3.1	600	4390	4260	5.97	779	--	--	--
JAN. 21...	4.0	3.3	620	4240	4230	5.77	733	--	--	--
FEB. 03...	1.8	1.4	510	4040	4060	5.49	934	--	--	--
MAR. 03...	1.8	1.5	390	2650	2650	3.60	744	--	--	--
APR. 15...	2.2	.07	90	654	641	.89	618	2860	392	--
MAY 14...	1.8	1.1	380	1840	1830	2.50	710	1990	158	--
JUNE 13...	4.1	2.7	230	1100	1090	1.50	1070	1400	182	--
JULY 30...	1.0	.80	360	2510	2450	3.41	949	2510	134	2530
AUG. 30...	4.8	4.5	100	4040	--	5.49	709	4520	340	4140
SEP. 26...	4.1	3.5	--	4980	--	6.77	1000	5400	340	5060
SEP. 23...	--	2.5	680	--	4960	6.75	849	--	--	--

DATE	VOL. NON- SETTLE- ABLE RESIDUE (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT DEMAND (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT. 12...	--	180	29	13	2170	7.8	70	7.8	--	.00
NOV. 04...	--	390	90	37	7690	7.7	17	15	--	.30
DEC. 09...	--	390	56	32	7090	7.8	15	22	--	.70
JAN. 21...	--	400	78	31	6940	7.8	18	35	.00	.78
FEB. 03...	--	390	88	30	6670	7.7	8	19	--	.72
MAR. 03...	--	330	59	21	4520	7.8	15	6.4	--	.18
APR. 15...	70	150	16	6.6	1160	7.8	40	6.8	--	.02
MAY 14...	110	290	47	15	3080	7.7	10	10	.00	.11
JUNE 13...	156	260	14	7.9	1850	7.5	20	19	.01	.00
JULY 30...	138	240	65	23	--	7.2	40	13	--	--
AUG. 30...	420	430	120	29	7520	7.3	20	10	--	--
SEP. 26...	280	390	120	40	8720	7.4	30	9.1	--	--
SEP. 23...	--	440	110	33	8630	7.2	40	27	.01	.03

PLATTE RIVER BASIN

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06803500 SALT CREEK AT LINCOLN, NEBR.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 12...	14	--	--	0	0	0	0	--	0	--	--	.4
JAN. 21...	10	0	--	0	3	--	0	13	0	120	.0	--
JUNE 30...	--	--	--	--	--	--	--	--	--	--	--	--
JULY 30...	--	--	--	--	--	0	--	--	--	--	--	--
AUG. 26...	--	--	--	--	--	0	--	--	--	--	--	--
SEP. 23...	0	200	0	0	--	0	1	37	9	160	.3	--

DATE	DIS- SOLVED MOLY- BDENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FIL- TRABLE RESIDUE (MG/L)
OCT. 12...	--	--	--	--	--	--	13	--	--	--	--	--
JAN. 21...	5	0	16	1	1500	8.8	30	--	--	--	--	--
JUNE 30...	--	--	--	--	--	--	--	--	--	--	--	2530
JULY 30...	--	--	--	--	--	--	--	--	--	--	--	4140
AUG. 26...	--	--	--	--	--	--	--	<39	.5	<12	2.0	5060
SEP. 23...	19	6	5	0	1400	20	20	<57	<1.6	17	2.5	--

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT. 12...	200	7.6	7.0	120	9.1	36000	20000	--
NOV. 04...	69	7.8	6.5	25	8.6	2600000	240000	--
DEC. 09...	65	7.8	7.5	15	8.2	1200000	1300000	--
JAN. 21...	64	7.6	5.5	25	7.5	6000000	790000	--
FEB. 03...	85	7.4	3.0	15	9.9	940000	12000	--
MAR. 03...	104	7.6	10.0	20	11.6	30000	970000	--
15...	350	7.2	5.0	600	10.5	27000	13000	--
APR. 14...	143	7.0	14.0	40	9.4	380000	100000	--
MAY 13...	360	7.4	19.5	95	5.8	490000	370000	--
JUNE 30...	140	7.5	23.5	--	4.4	5400000	340000	--
JULY 30...	65	7.3	18.5	20	8.1	1000000	130000	52000
AUG. 26...	74	8.2	26.0	5	17.0	6600000	560000	95000
SEP. 23...	63	6.8	17.0	15	9.1	2700000	340000	86000

PLATTE RIVER BASIN

06803500 SALT CREEK AT LINCOLN, NEBR.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6980	6960	6620	7700	6440	3760	4230	6080	2280	6860	6610	9310
2	6980	7100	7170	7520	6700	3850	4180	5540	3570	8480	7360	9110
3	7280	6090	6740	7520	6840	4080	4980	6080	4070	7370	4130	9180
4	7770	6820	7480	7520	6840	4190	5060	5960	4410	7680	6350	5540
5	8340	6820	6880	7520	6840	3940	5300	6200	4660	7040	7080	9590
6	7120	6560	7170	7520	6980	3350	5220	3810	4060	7640	7110	9640
7	5900	6560	7320	7520	6840	3020	5390	1370	4480	7880	7160	9880
8	2850	6690	7320	7880	7130	2840	5660	1880	5050	7620	7900	8810
9	1390	879	6880	7200	7280	3130	5480	4790	2570	2880	7140	9530
10	1570	3220	6620	7040	7440	1710	4910	1500	4410	3080	7430	9290
11	1730	3750	7640	6490	6090	523	2460	509	4160	3080	7480	9560
12	2670	5500	7480	7040	6570	422	2060	1020	5430	2160	7590	9640
13	3840	6090	7480	7360	6700	479	2400	1740	5600	5230	7780	9210
14	4880	6310	7170	7200	6440	583	5060	1850	5570	6190	5050	9160
15	6000	6430	6880	6900	3490	1420	6420	2920	3790	6640	8980	9390
16	6700	6690	6880	7040	1070	2110	6550	3360	5520	6180	8130	9210
17	6980	6560	7020	7360	952	2740	3480	3850	6240	6510	8240	9450
18	7430	6430	6740	7520	518	3680	4770	1650	7530	1840	8260	9010
19	7280	6820	8390	7700	928	3680	5860	981	7120	1510	7770	10100
20	7770	6430	7480	7700	2180	3760	4910	1780	7380	3720	7920	9530
21	7600	6690	7480	7700	2200	3350	5760	1890	7000	4540	8110	9640
22	7770	6960	7480	7360	2980	3450	5570	984	7910	2360	8980	9210
23	6450	9220	7820	7040	3560	3900	5760	1700	7710	4680	9880	9620
24	1940	8120	7820	6900	3990	4190	5960	2260	8400	4880	8110	9340
25	4280	7410	8000	7040	3990	4720	6070	2720	7970	6540	9110	8790
26	3600	7580	7820	6760	3130	4290	6180	3190	8170	6500	8960	9260
27	3680	6960	7820	6900	3350	4040	6180	3550	8830	5450	9560	9450
28	4380	7260	7820	6900	3560	3990	6960	4100	8830	5520	9910	9530
29	5610	6960	7640	7040	---	3900	5660	4450	8910	5680	10300	8470
30	6110	7100	7640	7360	---	4240	5760	4510	5730	5950	9320	8340
31	6700	---	8000	6240	---	4530	---	1260	---	6740	9110	---
MONTH	5470	6430	7380	7240	4680	3160	5140	3020	5910	5430	7960	9190

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.5	11.0	12.0	6.5	1.0	2.0	10.0	19.0	24.5	31.0	30.0	29.0
2	23.5	10.0	11.0	6.5	2.0	2.0	12.0	20.0	23.5	31.0	26.5	29.0
3	21.0	9.0	10.0	6.0	3.5	3.5	14.5	21.0	28.0	29.0	24.5	28.0
4	21.0	11.0	10.0	5.5	0.0	4.5	12.0	23.5	28.0	30.0	26.5	24.5
5	23.5	13.5	9.0	5.0	1.0	3.5	12.0	23.5	26.5	32.0	25.5	23.5
6	24.5	15.5	8.0	4.5	1.0	3.5	15.5	14.5	28.0	32.0	26.5	26.5
7	15.5	11.0	9.0	4.5	1.0	4.5	16.5	12.0	29.0	32.0	26.5	29.0
8	8.0	10.0	10.0	4.5	0.0	4.5	16.5	20.0	25.5	26.5	28.0	24.5
9	5.5	8.0	9.0	4.5	2.0	6.5	19.0	16.5	25.5	18.5	30.0	26.5
10	9.0	10.0	3.5	4.5	4.5	4.5	16.5	19.0	26.5	30.0	30.0	26.5
11	9.0	5.0	4.5	3.5	3.5	4.5	19.0	15.5	30.0	30.0	26.5	28.0
12	14.5	8.0	6.5	2.0	2.0	4.5	18.0	18.0	26.5	35.5	25.5	26.5
13	12.0	6.5	8.0	3.5	3.5	8.0	15.5	22.0	28.0	26.5	30.0	26.5
14	12.0	8.0	8.0	3.5	6.5	6.5	16.5	23.5	26.5	26.5	28.0	22.0
15	15.5	9.0	9.0	4.5	2.0	6.5	20.0	24.5	30.0	31.5	26.5	22.0
16	15.5	11.0	8.0	4.5	1.0	9.0	18.0	25.5	30.0	35.0	30.0	19.0
17	16.5	8.0	9.0	2.0	1.0	8.0	19.0	23.5	31.0	31.0	31.0	19.0
18	15.5	12.0	4.5	2.0	1.0	2.0	20.0	15.5	32.0	30.0	30.0	16.5
19	16.5	10.0	5.5	2.0	0.0	4.5	22.0	15.5	29.0	26.5	32.0	20.0
20	19.0	11.0	5.5	4.5	0.0	9.0	15.5	21.0	28.0	31.0	24.5	21.0
21	19.0	11.0	4.5	3.5	0.0	6.5	21.0	15.5	32.0	33.5	28.0	21.0
22	21.0	10.0	6.5	3.5	0.0	8.0	15.5	15.5	32.0	24.5	32.0	16.5
23	19.0	2.0	3.5	5.5	1.0	5.5	20.0	21.0	31.0	28.0	30.0	21.0
24	15.5	4.5	6.5	4.5	1.0	3.5	21.0	14.5	33.5	28.0	26.5	20.0
25	15.5	9.0	4.5	4.5	1.0	4.5	15.5	21.0	26.5	23.5	30.0	20.0
26	10.0	4.5	6.5	2.0	2.0	6.5	15.5	16.5	29.0	26.5	28.0	22.0
27	10.0	5.5	5.5	2.0	3.5	15.5	19.0	21.0	25.5	26.5	24.5	26.5
28	10.0	6.5	5.5	2.0	3.5	12.0	20.0	23.5	31.0	24.0	26.5	25.5
29	12.0	10.0	8.0	6.5	---	14.5	20.0	22.0	29.0	23.5	26.5	25.5
30	11.0	13.5	6.5	1.0	---	18.0	20.0	21.0	28.0	23.5	26.5	22.0
31	11.0	---	6.5	0.0	---	19.0	---	21.0	---	31.0	29.0	---
MONTH	15.5	9.0	7.0	4.0	2.0	7.0	17.0	19.5	28.5	28.5	28.0	23.5

PLATTE RIVER BASIN

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06803503 DEAD MANS RUN AT HIGHWAY 6, AT LINCOLN, NEBR.

LOCATION.--Lat 40°50'33", long 96°40'40", in SW¹/₄SW¹/₄ sec.7, T.10 N., R.7 E., Lancaster County, at bridge on Cornhusker Highway (U.S. Highway 6), 0.23 mile east of 27th Street at Lincoln.

DRAINAGE AREA.--9.46 sq mi.

PERIOD OF RECORD.--Chemical analyses: July to September 1971.

WATER QUALITY DATA, JULY TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN- GANESE (MN) (UG/L)	DIS-SOLVED CAL- CIUM (CA) (MG/L)	DIS-SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
JULY 30...	1.1	20	880	85	17	70	8.5	255	0	209
AUG. 26...	.97	20	270	82	18	73	11	313	0	257
SEP. 24...	.99	20	410	86	19	69	9.1	305	0	250

DATE	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS-SOL- VED US PHOS- PHORUS (P) (MG/L)
JULY 30...	120	55	.8	.77	4.4	--	1.6	2.0	.65	.25
AUG. 26...	120	50	.8	.07	2.0	.91	1.1	.84	.32	.30
SEP. 24...	120	60	.6	.51	2.6	.92	1.7	.41	.38	.37

DATE	DIS-SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	VOL. NON- SETTLE- ABLE RESIDUE (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON-CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO
JULY 30...	488	.66	1.49	496	122	504	118	280	73	1.8
AUG. 26...	534	.73	1.40	552	152	548	166	280	22	1.9
SEP. 24...	560	.76	1.50	644	236	644	280	290	43	1.8

DATE	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)
JULY 30...	757	6.9	20	4.9	0	--	--	--	--
AUG. 26...	854	7.6	10	3.8	0	27	.6	15	2.7
SEP. 24...	860	7.3	20	3.2	45	20	.6	11	.9

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
JULY 30...	1.1	6.8	14.0	110	7.6	19000	6500	9900
AUG. 26...	.97	7.5	20.0	6	13.1	18000	2300	6400
SEP. 24...	.99	6.5	9.0	5	8.1	3300	5200	4500

06803510 LITTLE SALT CREEK NEAR LINCOLN, NEBR.

LOCATION.--Lat 40°53'36", long 96°40'52", in NW¼SW¼ sec.30, T.11 N., R.7 E., Lancaster County, at gaging station at county road bridge 1.6 miles north of intersection of Interstate Highway 80 and north 14th Street north of Lincoln.

DRAINAGE AREA.--43.6 sq mi.

PERIOD OF RECORD.--Chemical analyses: July to September 1971.

WATER QUALITY DATA, JULY TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
JULY 30...	1.8	40	60	94	64	4800	20	313	0	257	1600	6700
AUG. 26...	1.4	30	50	110	59	5100	30	344	21	317	1300	7100
SEP. 24...	.94	40	260	210	80	6500	35	578	0	474	1600	9200

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KjELDAHL NITROGEN (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL RESIDUE (MG/L)
JULY 30...	1.0	.04	.70	.64	.06	.60	.20	.07	12900	17.5	63.0	13000
AUG. 26...	1.3	.45	.90	.85	.05	.40	.26	.20	13600	18.5	51.4	13800
SEP. 24...	1.1	.40	2.3	2.0	.25	1.6	.21	.15	18200	24.8	46.2	19100

DATE	LOSS ON IGNITION (MG/L)	TOTAL FILTERABLE RESIDUE (MG/L)	VOL. NON-SETTLABLE RESIDUE (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)
JULY 30...	350	13000	250	500	240	94	23800	8.2	20	6.3	0
AUG. 26...	320	13800	360	520	200	98	22000	8.6	20	5.1	0
SEP. 24...	680	18600	2600	850	380	97	28800	7.9	9	7.6	0

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM PER 100 ML	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
JULY 30...	1.8	8.1	28.5	6	19.5	1600	40	520
AUG. 26...	1.4	8.1	30.0	4	19.4	1900	71	1700
SEP. 24...	.94	7.2	17.5	5	21.6	200	84	420

06803523 STEVENS CREEK AT HIGHWAY 6, NEAR LINCOLN, NEBR.

LOCATION.--Lat 40°52'35", long 96°36'16", in NW¼SW¼ sec.35, T.11 N., R.7 E., Lancaster County, at bridge on U.S. Highway 6 about 1.1 miles northeast of Lincoln, upstream from drainage of sewage lagoon, and about 1.2 miles upstream from confluence with Salt Creek.

PERIOD OF RECORD.--Chemical analyses: March to September 1971.

REMARKS.--Records of discharge are given for Stevens Creek near Lincoln (sta 06803520).

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)
MAR. 18...	12	--	--	--	--	34	--	292	0	239
APR. 15...	3.3	--	--	--	--	--	--	349	0	286
MAY 14...	7.0	--	--	--	--	--	--	326	0	268
JULY 30...	.98	20	670	69	18	45	6.6	328	0	269
AUG. 27...	.60	10	560	72	19	47	8.2	367	0	301
SEP. 21...	.46	10	280	70	21	47	6.9	363	0	298

06803523 STEVENS CREEK AT HIGHWAY 6, NEAR LINCOLN, NEBR.--Continued

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	NITRITE (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)
MAR. 18...	74	19	--	1.3	3.5	--	.030	--	.33
APR. 15...	75	26	--	.75	.85	--	.020	--	.08
MAY 14...	73	13	--	.96	2.8	--	.030	--	.22
JULY 30...	56	25	.4	.28	1.6	--	--	.33	.69
AUG. 27...	55	19	.7	.45	.91	.85	--	.06	.40
SEP. 21...	61	18	.6	.36	.71	.65	--	.06	.29

DATE	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
MAR. 18...	1.8	.37	.25	407	.55	13.2	462	126	--
APR. 15...	.00	.26	.15	401	.55	3.62	510	110	--
MAY 14...	1.6	.38	.30	444	.60	8.39	--	480	--
JULY 30...	--	.45	.35	412	.56	1.09	398	146	424
AUG. 27...	--	.58	.38	450	.61	.73	434	132	462
SEP. 21...	--	.33	.31	432	.59	.54	472	158	450

DATE	VOL. NON- SETTLE- ABLE RESIDUE (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	HEXA- VALENT CHROMIUM (CR6) (UG/L)
MAR. 18...	131	250	13	.9	633	8.1	25	2.5	--
APR. 15...	1	270	0	--	773	8.1	7	5.1	--
MAY 14...	129	270	6	--	661	8.0	15	2.7	--
JULY 30...	140	250	0	1.2	623	6.6	20	1.5	0
AUG. 27...	42	260	0	1.3	659	7.8	20	5.0	0
SEP. 21...	134	260	0	1.3	701	7.6	20	2.1	0

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
MAR. 18...	12	7.2	5.0	40	12.1	7700	750	--
APR. 15...	3.3	7.2	17.5	25	10.1	5500	2800	--
MAY 14...	7.0	7.7	19.5	30	8.7	33000	6100	--
JULY 30...	.98	7.6	19.0	20	3.8	3200	670	220
AUG. 27...	.60	7.3	21.0	7	8.0	1500	420	640
SEP. 21...	.46	5.8	13.5	9	7.8	1400	550	180

220

north of Interstate Highway 80 and 3 miles southwest of Waverly.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO2) (MG/L)	DIS-SOLVED ALUM- INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN- GANESE (MN) (UG/L)	DIS-SOLVED CAL- CIUM (CA) (MG/L)	DIS-SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
MAR.											
18...	240	17	--	0	390	76	19	580	13	292	0
31...	130	20	--	80	510	93	28	885	16	368	0
APR.											
15...	101	19	--	200	530	91	29	1180	22	359	0
27...	107	21	--	90	720	98	29	1250	20	384	0
MAY											
13...	395	12	--	30	120	65	16	277	11	218	0
JUNE											
15...	145	25	300	30	160	96	28	1100	16	353	0
JULY											
01...	96	23	100	80	1100	90	26	1100	6.1	300	0
28...	78	--	--	--	--	96	31	1500	15	340	0
AUG.											
11...	68	23	200	30	500	96	32	1400	16	368	0
25...	60	--	--	--	--	--	--	1400	--	--	--
SEP.											
09...	58	26	200	40	280	110	32	1600	18	394	0
21...	54	--	--	--	--	100	33	1600	18	420	0

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
MAR.										
18...	1.3	1.1	260	1810	1830	2.46	1170	1940	76	---
31...	3.0	2.8	470	2710	2730	3.69	951	3000	118	---
APR.										
15...	2.4	1.9	600	3430	3450	4.66	935	3432	228	---
27...	4.8	4.6	660	3710	3700	5.05	1070	3810	440	---
MAY										
13...	1.4	.56	180	1020	983	1.39	1090	1790	350	---
JUNE										
15...	5.5	4.8	440	3160	3190	4.30	1240	3200	152	3180
JULY										
01...	2.8	2.7	--	3280	3300	4.46	853	3340	154	3310
28...	3.5	3.3	--	4200	--	5.71	885	4380	340	4200
AUG.										
11...	8.4	5.3	--	4300	4230	5.85	789	4280	280	4300
25...	2.8	6.5	--	--	--	--	--	3340	660	3980
SEP.										
09...	5.2	5.0	--	4720	4690	6.42	739	4680	200	4720
21...	10	10	--	4880	--	6.64	722	5040	1060	5000

[illegible]

DRAINAGE AREA.--815 sq mi.

PERIOD OF RECORD.--Chemical analyses: March to September 1971.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	ALKALINITY AS CaCO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	NITRITE (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	NITRATE (N) (MG/L)
MAR.											
18...	239	170	810	.2	1.9	4.5	--	.040	--	1.8	.8
31...	302	280	1200	.7	1.5	6.9	--	.010	--	4.9	.5
APR.											
15...	295	340	1600	.8	2.0	5.6	--	.070	--	3.2	.3
27...	315	330	1800	1.3	1.6	6.5	--	.10	--	4.2	.6
MAY											
13...	178	110	370	.5	1.1	4.2	--	.21	--	.88	2.0
JUNE											
15...	290	230	1500	.9	.46	8.4	--	.13	4.2	3.7	4.1
JULY											
01...	246	300	1600	.6	1.1	5.2	--	.040	.96	3.1	1.0
28...	279	400	2100	1.1	.00	--	--	--	.97	4.2	--
AUG.											
11...	302	370	2100	.3	.00	6.0	5.6	--	.40	5.8	--
25...	--	360	--	--	.00	7.0	6.7	.040	.29	6.7	1.0
SEP.											
09...	323	400	2300	1.0	.30	7.6	7.0	--	.57	6.7	--
21...	344	470	2300	1.8	1.0	11	11	--	.30	10	--

DATE	VOL. NON-SETTLABLE RESIDUE (MG/L)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
MAR. 18...	52	270	27	15	3100	8.0	20	7.5	.00	--
31...	50	350	43	21	4640	8.0	13	7.9	.00	--
APR. 15...	144	350	53	28	5650	7.7	7	8.0	.00	--
27...	156	360	49	29	6400	7.8	29	9.9	.00	--
MAY 13...	67	230	50	8.0	1730	7.7	25	7.3	.01	--
JUNE 15...	172	350	65	25	5540	7.3	20	4.3	.00	--
JULY 01...	166	330	86	26	5750	7.3	30	7.9	.01	.00
28...	260	370	91	34	6900	7.5	20	3.8	--	--
AUG. 11...	200	370	70	32	6940	7.3	20	8.5	.00	.03
25...	166	--	--	--	--	--	--	2.7	--	.00
SEP. 09...	600	410	83	35	7760	7.1	20	7.9	.01	.02
21...	920	390	41	35	7920	7.1	50	10	--	--

[illegible]

PLATTE RIVER BASIN

06803525 SALT CREEK BELOW STEVENS CREEK NEAR WAVERLY, NEBR.--Continued

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE- NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE D GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE D GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
MAR.										
18...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
APR.										
15...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
13...	--	--	--	--	--	--	--	--	--	--
JUNE										
15...	--	--	--	--	--	--	--	--	--	3180
JULY										
01...	40	1	.4	4	20	--	--	--	--	3310
28...	--	--	--	--	--	--	--	--	--	4200
AUG.										
11...	4	0	3.8	0	10	--	--	--	--	4300
25...	--	--	.4	4	20	<44	1.8	12	2.0	3980
SEP.										
09...	4	0	12	3	20	--	--	--	--	4720
21...	--	--	--	--	--	<48	1.2	30	2.2	5000

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
MAR.								
18...	240	7.4	7.0	45	10.2	160000	59000	--
31...	130	7.6	14.0	20	7.8	490000	53000	--
APR.								
15...	101	7.5	16.0	25	7.7	84000	19000	--
27...	107	7.6	13.0	15	8.0	910000	200000	--
MAY								
13...	395	7.4	16.5	190	7.0	110000	67000	--
JUNE								
15...	145	7.4	24.0	100	5.2	1600000	95000	--
JULY								
01...	96	7.1	23.5	65	3.8	3200000	560000	36000
28...	78	7.5	24.5	15	8.2	1100000	3300	1600
AUG.								
11...	68	7.5	23.0	15	6.8	14000000	260000	16000
25...	60	7.1	19.5	5	5.3	3800000	800000	44000
SEP.								
09...	57	7.2	21.0	5	8.7	3600000	270000	14000
21...	54	6.5	14.0	9	2.7	280000	230000	68000

06803530 ROCK CREEK NEAR CERESCO, NEBR.

LOCATION.--Lat 41°00'56", long 96°32'39", in NE 1/4 sec. 17, T. 12 N., R. 8 E., Lancaster County, at gaging station at county road bridge 5.7 miles southeast of Ceresco.

DRAINAGE AREA.--119 sq mi (revised).

PERIOD OF RECORD.--Chemical analyses: April 1970 to September 1971.
Water temperatures: April 1970 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 2,230 micromhos Mar. 27; minimum daily, 239 micromhos Mar. 11.
Water temperatures: Maximum, 32.0°C June 8, July 1, Aug. 16, Sept. 13; minimum, freezing point on many days during November to April.

Period of record:

Specific conductance: Maximum daily, 5,160 micromhos July 5, 1970; minimum daily, 239 micromhos Mar. 11, 1971.
Water temperatures: Maximum, 39.5°C July 17, 1970; minimum, freezing point on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)
OCT.											
07...	4.4	28	100	0	270	74	16	168	9.5	303	0
NOV.											
17...	7.3	32	--	--	--	83	18	180	8.8	331	0
DEC.											
09...	6.1	26	--	--	--	79	19	185	6.9	307	13
31...	5.7	33	--	80	1100	90	19	173	7.1	360	0
JAN.											
21...	7.4	35	--	--	--	82	20	185	8.1	357	0
FEB.											
10...	6.0	34	--	--	--	78	21	193	8.6	350	0
MAR.											
05...	13	26	--	--	--	71	17	179	12	300	0
16...	16	16	--	--	--	60	16	159	13	235	0
APR.											
14...	7.0	17	0	30	660	71	17	195	8.5	310	14
MAY											
14...	12	21	--	--	--	70	21	180	11	306	0
JUNE											
28...	2.1	24	--	--	--	74	20	170	8.3	333	0
JULY											
30...	4.6	--	--	20	160	74	19	190	6.9	326	0
AUG.											
27...	2.4	--	--	10	360	63	17	180	7.7	324	0
SEP.											
24...	4.5	--	--	10	120	73	17	170	6.6	319	0

DATE	ALKA- LINITY AS CaCO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	NITRITE (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)
OCT.										
07...	248	120	190	.3	.71	--	--	.010	--	.04
NOV.										
17...	271	130	190	.5	--	--	--	--	--	.10
DEC.										
09...	273	120	210	.4	--	--	--	--	--	.03
31...	295	120	190	.6	--	--	--	--	--	.01
JAN.										
21...	293	120	190	.1	--	--	--	--	--	.40
FEB.										
10...	287	130	210	.7	--	--	--	--	--	.59
MAR.										
05...	246	120	210	.3	--	--	--	--	--	.60
16...	193	110	190	.2	1.1	2.6	--	.040	--	.40
APR.										
14...	277	120	200	.5	.40	.43	--	.010	--	.02
MAY										
14...	251	120	180	.5	1.1	3.1	--	.17	--	.19
JUNE										
28...	273	--	190	.4	.59	1.1	--	.000	.30	.18
JULY										
30...	267	120	200	.6	.48	1.0	--	--	.02	.24
AUG.										
27...	266	78	200	.8	.28	.63	.53	--	.10	.25
SEP.										
24...	262	120	180	.4	.20	.53	.36	--	.17	.16

06803530 ROCK CREEK NEAR CERESCO, NEBR.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

			DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)
DATE	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)								
OCT. 07...	.1	--	.41	270	754	755	1.03	9.10	--	--
NOV. 17...	.6	--	.44	150	879	815	1.20	17.5	--	--
DEC. 09...	.2	--	.24	240	825	810	1.12	13.8	--	--
31...	.7	--	.24	240	811	809	1.10	12.5	--	--
JAN. 21...	.7	--	.32	220	826	822	1.12	16.5	--	--
FEB. 10...	.8	--	.41	240	871	850	1.18	14.2	--	--
MAR. 05...	1.1	--	.29	230	780	781	1.06	28.6	--	--
16...	1.1	.54	.21	--	696	693	.95	30.1	956	15
APR. 14...	.00	.22	.18	260	802	804	1.09	15.2	812	138
MAY 14...	1.6	.50	.26	210	779	767	1.06	25.2	932	98
JUNE 28...	--	.53	.35	280	760	--	1.03	4.31	774	154
JULY 30...	--	.35	.30	--	776	--	1.06	9.64	796	138
AUG. 27...	--	.45	.33	--	760	--	1.03	4.92	774	120
SEP. 24...	--	.34	.29	--	720	--	.98	8.75	796	112

DATE	TOTAL FILT- RABLE RESIDUE (MG/L)	VOL. NON- SETTLE- ABLE RESIDUE (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	
OCT. 07...	--	--	250	3	4.6	--	8.0	12	--	.00	
NOV. 17...	--	--	280	10	4.7	1400	8.2	23	--	--	
DEC. 09...	--	--	270	1	4.9	1320	8.4	10	--	--	
31...	--	--	300	9	4.3	1270	7.9	3	--	.00	
JAN. 21...	--	--	290	0	4.8	1310	7.8	6	--	--	
FEB. 10...	--	--	280	0	5.0	1420	7.6	6	--	--	
MAR. 05...	--	--	250	0	5.0	1340	7.7	7	--	--	
16...	--	51	210	21	4.7	1160	7.8	40	3.0	--	
APR. 14...	--	53	250	0	5.4	1290	8.5	5	3.0	--	
MAY 14...	--	110	260	9	4.9	1230	8.0	22	2.5	--	
JUNE 28...	772	244	270	0	4.5	1320	8.3	20	--	--	
JULY 30...	790	124	260	0	5.1	1330	8.4	20	2.5	--	
AUG. 27...	768	36	230	0	5.2	1220	8.0	30	1.9	--	
SEP. 24...	804	284	250	0	4.7	1250	8.1	10	1.7	--	

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED MOLY- BDENUM (MO) (UG/L)
OCT. 07...	12	0	0	0	0	--	0	0	0	43	.0	6
APR. 14...	--	--	--	--	--	--	--	--	--	50	--	--
JUNE 28...	--	--	--	--	--	--	--	--	--	--	--	--
JULY 30...	--	--	--	--	--	0	--	--	--	--	--	--
AUG. 27...	--	--	--	--	--	0	--	--	--	--	--	--
SEP. 24...	--	--	--	--	--	0	--	--	--	--	--	--

PLATTE RIVER BASIN

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06803530 ROCK CREEK NEAR CERESCO, NEBR.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRONTIUM (SR) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
OCT. 07...	0	7	0	660	6.5	26	--	--	--	--	--
APR. 14...	--	--	--	860	--	--	--	--	--	--	--
JUNE 28...	--	--	--	--	--	--	--	--	--	--	772
JULY 30...	--	--	--	--	--	--	--	--	--	--	790
AUG. 27...	--	--	--	--	--	--	15	5.9	9.6	5.1	768
SEP. 24...	--	--	--	--	--	--	13	4.2	10	3.7	804

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	PH (UNITS)	TEMP-ERATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COLONIES PER 100 ML)
DEC. 09...	6.1	8.6	--	--	--	--	--	--
MAR. 16...	16	7.3	8.0	95	12.5	600	150	--
APR. 14...	7.0	7.6	16.0	10	13.0	230	50	--
MAY 14...	12	7.4	18.0	65	8.5	12000	6000	--
JULY 30...	4.6	7.6	21.0	30	11.8	430	79	220
AUG. 27...	2.4	7.2	19.0	50	5.6	2600	480	700
SEP. 24...	4.5	6.6	12.0	45	8.8	1200	520	1000

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1130	1320	1610	1290	863	1020	1410	1310	1040	1160	1410	1160
2	1120	1340	1440	1220	1240	1070	1370	1290	1190	1330	1400	1120
3	1120	1440	1460	1260	1230	1220	1390	1310	1260	1350	1250	1120
4	1090	1580	1360	1300	1300	1290	1380	1300	1270	1320	936	1150
5	1080	1470	1340	1340	1350	1260	1370	1360	1310	1300	1270	1190
6	1080	1500	1380	1380	1350	1420	1360	1330	1280	1280	1270	1140
7	1320	1500	1340	1420	1370	1040	1400	2000	1480	1330	1320	1140
8	919	1380	1290	1460	1420	1020	1330	1740	1170	1390	1320	1120
9	917	2080	1360	1500	1430	1010	1300	1590	1280	1380	1360	1100
10	784	1350	1440	1540	1390	427	1330	1070	1080	1500	1410	1070
11	685	1530	1740	1580	1260	239	1320	552	1140	1400	1330	1070
12	816	1680	1230	1450	1220	266	1300	1020	1260	1290	1400	1100
13	818	1620	1400	1470	579	300	1310	1190	324	1310	1420	1070
14	1010	1580	1340	1500	482	596	1340	1300	721	1310	1330	1090
15	1100	1580	1310	1420	536	928	1350	1320	1100	1300	1300	1060
16	1140	1510	1470	1420	335	1200	1360	1430	1250	1280	1300	1050
17	1180	1470	1320	1480	317	1330	1410	1360	1220	1280	1270	1070
18	1230	1560	1510	1460	369	2200	1410	824	1260	1330	1260	1080
19	1240	1560	1830	1840	296	2080	1400	1200	1250	1380	1280	1100
20	1280	1580	1220	2040	411	1690	1340	1280	1260	1380	1360	1110
21	1300	1590	1320	1330	569	1440	1560	1350	1270	1310	1430	1080
22	1310	1720	1310	1300	900	1520	1360	1420	1280	2020	1280	1070
23	1460	1990	1510	1260	1230	1530	1360	1440	1280	1600	1240	1210
24	600	1400	1410	1320	1560	1700	1330	1420	1270	1390	1220	1150
25	875	1440	1340	1180	1210	1440	1340	1400	1280	1430	1180	1440
26	977	1410	1270	1150	1050	1550	1320	1380	1280	1440	1180	1340
27	888	1380	1300	1060	1050	2230	1400	1330	1260	1450	1350	1160
28	1080	1370	1320	687	1000	1610	1380	1330	1280	1370	1270	1300
29	1220	1390	1370	528	---	1500	1310	1320	1300	1480	1330	1290
30	1280	1400	1310	1000	---	1470	1310	1320	1570	1300	1310	1120
31	1280	---	1310	1000	---	1430	---	466	---	---	1300	---
MONTH	1080	1520	1390	1330	976	1260	1360	1290	1210	1380	1300	1140

PLATTE RIVER BASIN

06803530 ROCK CREEK NEAR CERESCO, NEBR.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.0	5.5	4.5	1.0	1.0	0.0	0.0	18.0	25.5	32.0	28.5	28.0
2	19.0	4.5	4.5	0.0	0.0	2.0	9.0	17.0	28.0	28.0	22.0	28.0
3	15.5	3.5	4.5	0.0	0.0	4.0	12.0	17.0	21.5	18.5	24.5	27.0
4	15.5	4.5	3.5	0.0	0.0	3.5	9.0	22.0	26.5	20.0	25.5	26.5
5	21.0	11.5	0.0	0.0	0.0	2.0	5.5	21.0	31.0	21.0	26.5	18.5
6	26.5	9.0	0.0	0.0	0.0	1.0	9.0	15.5	24.0	23.5	26.5	25.5
7	12.0	15.5	4.5	0.0	0.0	0.0	10.0	16.5	28.5	24.5	25.5	25.5
8	4.5	9.0	0.0	0.0	0.0	1.0	9.5	23.0	32.0	26.5	25.5	23.5
9	4.5	0.0	1.5	0.0	0.0	0.0	4.5	15.5	24.5	28.5	26.5	21.0
10	9.0	8.0	0.0	0.0	0.0	1.0	5.5	15.5	10.0	26.5	30.0	24.5
11	9.0	4.5	0.0	0.0	0.5	8.5	19.0	15.0	29.0	28.0	29.5	26.0
12	8.5	3.5	0.0	0.0	0.0	7.0	5.5	15.5	28.0	29.5	26.5	23.5
13	9.0	4.5	0.0	0.0	0.0	4.5	4.5	28.0	26.0	28.5	23.5	32.0
14	9.0	1.0	0.0	0.0	0.0	2.0	18.0	25.5	26.5	23.5	31.5	26.0
15	4.5	4.5	1.0	0.0	1.0	1.0	26.0	18.5	29.0	31.5	25.5	26.0
16	20.0	3.5	4.0	0.0	0.0	2.0	24.0	25.5	18.5	26.5	32.0	15.5
17	10.0	4.0	4.5	0.5	1.0	2.0	20.0	24.0	29.0	31.0	28.5	17.0
18	13.5	4.0	0.0	0.0	1.0	3.5	10.0	15.5	28.5	26.0	29.5	14.5
19	14.0	4.5	0.0	0.0	0.5	4.5	13.0	21.5	28.0	20.5	30.0	16.5
20	15.5	3.5	0.0	2.0	0.0	1.5	4.5	18.5	21.0	18.5	26.0	26.5
21	15.5	4.5	0.0	0.0	0.0	1.0	25.5	15.5	31.0	17.0	22.0	18.5
22	18.0	.0	0.0	0.0	0.0	0.0	16.5	16.0	28.0	16.5	31.5	16.5
23	10.0	.0	0.0	0.0	0.0	0.0	20.0	23.5	29.5	30.0	28.0	18.0
24	15.0	0.5	0.0	0.0	0.0	3.5	18.5	13.5	21.0	20.0	26.0	26.0
25	14.5	4.5	0.0	1.0	0.0	2.0	15.5	18.5	26.5	25.5	29.5	24.5
26	10.0	4.5	0.0	0.0	0.5	0.0	14.5	18.0	29.5	22.0	26.5	22.0
27	10.0	4.5	0.0	0.0	0.0	2.0	8.5	24.0	28.5	18.5	26.5	26.5
28	9.0	1.0	0.0	0.0	0.0	4.5	15.5	23.5	27.0	26.0	26.5	31.0
29	10.5	1.0	0.0	1.0	---	13.5	13.5	24.0	29.5	20.0	26.5	23.5
30	4.5	4.5	0.0	0.0	---	15.5	18.5	19.0	29.0	16.5	26.5	22.0
31	8.0	---	0.0	0.0	---	6.5	---	24.0	---	---	26.5	---
MONTH	12.5	4.5	1.0	0.0	0.0	3.0	13.0	19.5	26.5	24.0	27.0	23.5

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT	SUS- PENDE SED- FALL	SUS. SED. FALL	SUS. SED. FALL	SUS. SED. FALL	SUS. SED. FALL	SUS. SED. FALL	SUS. SED. FALL	
				DIS- CHARGE (MG/L)	DIS- CHARGE (T/DAY)	% FINER THAN .002 MM	% FINER THAN .004 MM	% FINER THAN .016 MM	% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	
MAR. 12...	1615	6.0	622	3630	6100	32	36	54	98	99	100	
MAY 11...	1145	14.0	530	11600	16600	43	49	72	100	--	--	
DATE	TIME	TEMP- ERATURE (DEG C)	NUMBER OF SAM- PLING POINTS	DIS- CHARGE (CFS)	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.	BED MAT. FALL DIAM.
					% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM	% FINER THAN 1.00 MM	% FINER THAN 2.00 MM	% FINER THAN 4.00 MM	% FINER THAN 8.00 MM
MAY 11...	1145	14.0	4	530	59	60	62	78	89	96	99	100

PLATTE RIVER BASIN

99

06803555 SALT CREEK AT GREENWOOD, NEBR.

LOCATION.--Lat 40°57'56", long 96°27'01", at center of sec.31, T.12 N., R.9 E., Cass County, at gaging station at county road bridge 0.5 mile west of Greenwood.

DRAINAGE AREA.--1,051 sq mi.

PERIOD OF RECORD.--Chemical analyses: July to September 1971.

WATER QUALITY DATA, JULY TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
JULY 27...	99	20	60	89	26	990	14	290	0	238	300	1400
AUG. 25...	84	20	350	95	29	1300	18	349	0	286	330	1800
SEP. 21...	73	20	280	110	35	1800	15	361	0	296	520	2700

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KjELDAHL NITROGEN (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL RESIDUE (MG/L)
JULY 27...	1.0	.63	12	--	7.1	3.8	3.3	3.2	3080	4.19	823	3280
AUG. 25...	1.0	.00	7.6	3.3	4.3	3.5	3.8	3.5	3910	5.32	891	3980
SEP. 21...	1.1	.10	7.6	6.6	1.0	6.5	4.0	3.9	5180	7.04	1030	5460

DATE	LOSS ON IGNITION (MG/L)	TOTAL FILTERABLE RESIDUE (MG/L)	VOL. NON-SETTLABLE RESIDUE (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)
JULY 27...	340	3140	260	330	91	24	5130	7.6	20	9.3	0
AUG. 25...	170	3950	200	360	70	30	6180	7.3	20	1.6	0
SEP. 21...	540	5280	400	420	120	38	9130	7.1	20	5.3	0

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
JULY 27...	99	7.8	25.5	30	7.9	130000	15000	480
AUG. 25...	84	7.6	23.0	20	5.1	70000	700	170
SEP. 21...	73	6.7	15.5	6	8.4	25000	330	210

PLATTE RIVER BASIN

06803565 SALT CREEK ABOVE ASHLAND, NEBR.

LOCATION.--Lat 41°01'34", long 96°24'22", in NW¹/₄ NW¹/₄ sec.10, T.12 N., R.9 E., Saunders County, at county road bridge 2 miles southwest of Ashland.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO2) (MG/L)	DIS-SOLVED ALUM- INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN- GANESE (MN) (UG/L)	DIS-SOLVED CAL- CIUM (CA) (MG/L)	DIS-SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO-TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
MAR.											
18...	336	18	--	0	62	72	17	400	13	276	0
31...	192	20	--	60	300	83	27	735	15	359	0
APR.											
15...	152	11	--	60	320	79	24	670	15	297	0
27...	133	17	--	30	380	97	29	1180	18	389	0
MAY											
13...	626	--	--	80	12	54	13	155	9.9	186	0
JUNE											
15...	192	20	300	40	130	87	24	840	13	317	0
JULY											
01...	160	16	100	90	200	110	18	540	6.5	206	0
27...	124	--	--	--	--	93	29	1300	12	322	0
AUG.											
11...	100	16	200	20	230	85	30	1300	15	350	0
25...	90	--	--	--	--	110	35	1600	18	364	0
SEP.											
09...	90	24	200	20	370	100	30	1300	16	340	0
21...	82	--	--	--	--	100	34	1600	15	355	0

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
MAR.										
18...	1.0	1.0	170	1380	1370	1.88	1250	154	80	--
31...	1.5	1.3	370	2330	2330	3.17	1210	2244	128	--
APR.										
15...	1.3	.77	340	2300	2090	3.13	944	2328	192	--
27...	3.1	3.0	570	3440	3470	4.68	1240	3460	120	--
MAY										
13...	1.5	.23	140	645	626	.88	1090	2850	372	--
JUNE										
15...	1.5	1.2	350	2590	2650	3.52	1340	2650	200	2600
JULY										
01...	1.2	1.2	--	1790	1880	2.43	773	2000	280	1810
27...	2.4	2.1	--	3580	--	4.87	1200	3860	340	3620
AUG.										
11...	8.3	5.2	--	3920	3750	5.33	1960	3920	300	3940
25...	4.5	4.0	--	4520	--	6.15	1100	4780	440	4700
SEP.										
09...	5.9	5.6	--	4000	3900	5.44	972	4000	340	4000
21...	4.9	4.8	--	4720	--	6.42	1050	4840	360	4880

[illegible]

DRAINAGE AREA.--1,118 sq mi.

PERIOD OF RECORD.--Chemical analyses: March to September 1971.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	ALKALINITY AS CaCO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJEL- DAHL NITROGEN (N) (MG/L)	NITRITE (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	NITRATE (N) (MG/L)
MAR.											
18...	226	140	560	.4	2.1	4.9	--	.040	--	1.7	1.1
31...	294	230	1000	.7	1.3	3.5	--	.040	--	1.5	.7
APR.											
15...	243	200	940	.6	1.5	3.0	--	.060	--	.79	.6
27...	319	310	1600	.8	1.0	5.4	--	.030	--	3.4	1.0
MAY											
13...	153	81	200	.9	7.0	9.7	--	.16	--	.62	1.9
JUNE											
15...	260	290	1200	.7	.78	4.5	--	.33	2.8	.94	2.5
JULY											
01...	169	260	820	.8	1.3	4.2	--	.050	1.8	1.1	1.9
27...	264	330	1800	.8	.00	3.9	--	--	2.1	1.8	--
AUG.											
11...	287	320	1800	1.2	.40	3.8	1.9	--	1.9	1.5	--
25...	299	44	2500	.9	.30	6.4	3.0	--	3.4	2.7	--
SEP.											
09...	279	350	1900	1.0	.40	6.7	5.1	--	1.6	4.7	--
21...	291	470	2300	1.1	.20	7.9	6.0	--	1.9	5.8	--

DATE	VOL. NON-SETTLABLE RESIDUE (MG/L)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
MAR. 18...	48	250	25	11	2370	8.0	20	9.4	.00	---
31...	52	320	23	18	4010	8.1	8	7.5	.00	---
APR. 15...	46	290	50	17	3540	7.5	10	7.8	.00	---
27...	52	360	41	27	5990	8.0	10	5.7	.01	---
MAY 13...	100	190	36	4.9	1140	7.8	40	5.4	.02	---
JUNE 15...	244	320	56	21	4650	7.4	60	3.8	.02	---
JULY 01...	90	350	180	13	3200	7.1	30	8.2	.02	.00
27...	140	350	87	30	6160	6.9	20	8.0	--	---
AUG. 11...	300	340	49	31	6170	7.4	30	5.6	.02	.00
25...	360	420	120	34	8140	7.4	20	7.3	--	---
SEP. 09...	540	370	94	29	6790	7.1	20	6.6	.02	.01
21...	820	390	98	35	8230	7.2	30	4.4	--	---

[illegible]

06803565 SALT CREEK ABOVE ASHLAND, NEBR.--Continued

WATER QUALITY DATA, MARCH TO SEPTEMBER 1971

DATE	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	HEXA- VALENT CHROMIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
MAR.									
18...	--	0	--	--	--	--	--	--	--
31...	--	0	--	--	--	--	--	--	--
APR.									
15...	--	0	--	--	--	--	--	--	--
27...	--	0	--	--	--	--	--	--	--
MAY									
13...	--	0	--	--	--	--	--	--	--
JUNE									
15...	--	0	0	--	--	--	--	--	2600
JULY									
01...	1	--	0	6	0	1.0	6	20	1810
27...	--	--	0	--	--	--	--	--	3620
AUG.									
11...	1	--	0	3	6	6.9	0	20	3940
25...	--	--	0	--	--	--	--	--	4700
SEP.									
09...	0	--	0	10	0	.5	3	20	4000
21...	--	--	0	--	--	--	--	--	4880

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
MAR.								
18...	336	7.4	6.0	50	10.3	100000	72000	--
31...	192	7.4	12.5	30	7.9	94000	1000	--
APR.								
15...	152	7.4	12.5	40	8.1	14000	2800	--
27...	133	7.4	10.0	20	8.0	66000	7300	--
MAY								
13...	626	7.4	14.5	500	7.2	86000	55000	--
JUNE								
15...	192	7.3	22.0	160	5.3	180000	17000	--
JULY								
01...	160	7.0	23.0	206	3.5	1300000	55000	8000
27...	124	7.9	24.5	50	7.6	84000	3500	4200
AUG.								
11...	100	7.4	21.0	45	5.7	130000	930	150
25...	90	7.2	26.0	30	7.0	21000	930	80
SEP.								
09...	90	6.7	17.5	25	5.6	36000	2300	84
21...	82	6.7	17.0	10	9.4	8700	1600	160

06805550 PLATTE RIVER NEAR PLATTSMOUTH, NEBR.

LOCATION.--Lat 41°03'32", long 95°59'22", in NE 1/4 sec.31, T.13 N., R.13 E., Sarpy County, at revetment at well no. 2, Omaha Metropolitan Utilities District well field, about 4 miles upstream from bridge on U.S. Highways 73 and 75 and about 7 miles northwest of Plattsmouth.

DRAINAGE AREA.--92,000 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT.					
06...	2520	--	.04	.1	.45
NOV.					
03...	4200	--	.08	.5	.37
DEC.					
03...	8060	--	.27	.8	.72
JAN.					
20...	3400	--	.19	.8	.33
FEB.					
02...	4850	--	.15	.7	.24
MAR.					
02...	14500	--	.51	2.3	.79
APR.					
02...	10700	--	.14	1.8	.55
MAY					
05...	6700	--	.00	.00	.36
JUNE					
04...	17200	.18	.09	--	.40
JULY					
02...	14900	.53	.70	--	.83
AUG.					
02...	1960	.00	.04	--	.65
SEP.					
28...	2730	.02	.22	--	.54

MISSOURI RIVER MAIN STEM

103

06807000 MISSOURI RIVER AT NEBRASKA CITY, NEBR.

(International hydrological decade river, irrigation network, pesticide, and radiochemical station)

LOCATION.--Lat 40°40'55", long 95°50'48", in NW-NE¹ sec.9, T.8 N., R.14 E., Otoe County, at gaging station at Waubonsie Highway Bridge at Nebraska City, at mile 562.6.

DRAINAGE AREA.--414,400 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: January 1951 to September 1971.

Water temperatures: May 1951 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 868 micromhos Jan. 11; minimum daily, 356 micromhos Feb. 22.

Water temperatures: Maximum, 26.0°C on several days during June; minimum, freezing point on many days during December to February.

Period of record:

Specific conductance: Maximum daily, 994 micromhos Dec. 17, 1962; minimum daily, 273 micromhos June 17, 1964.

Water temperatures: Maximum, 29°C July 25, 1952; minimum, freezing point on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)
OCT.										
27...	50000	--	--	--	--	--	--	--	--	200
NOV.										
16...	49200	--	--	--	--	--	--	--	--	201
DEC.										
22...	21400	--	--	--	--	--	--	--	--	328
JAN.										
22...	20000	15	--	20	17	67	21	75	7.6	230
FEB.										
11...	20500	--	--	--	--	--	--	--	--	236
MAR.										
16...	54500	--	--	--	--	--	--	--	--	166
APR.										
08...	47800	14	--	40	40	65	20	55	7.3	200
JUNE										
29...	58000	11	200	320	0	93	20	58	6.5	213
JULY										
16...	57300	11	--	40	0	61	19	62	6.6	203
AUG.										
05...	52000	--	--	--	--	--	--	--	--	--
26...	50000	--	--	--	--	--	--	--	--	212
SEP.										
14...	49200	8.1	--	20	0	57	21	70	4.9	195

DATE	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CaCO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	NITRATE (N) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.										
27...	0	164	--	--	--	--	.4	.11	--	--
NOV.										
16...	0	165	--	--	--	--	.6	.06	--	--
DEC.										
22...	0	269	--	--	--	--	.7	.15	--	--
JAN.										
22...	0	189	200	29	.7	--	.5	.75	110	536
FEB.										
11...	0	194	--	--	--	--	.7	.43	--	--
MAR.										
16...	0	136	--	--	--	--	1.1	.12	--	--
APR.										
08...	0	164	160	16	.6	--	.9	.15	--	454
JUNE										
29...	0	175	220	15	.6	.46	--	.10	130	--
JULY										
16...	0	167	200	15	.7	.75	--	.10	130	--
AUG.										
05...	--	--	--	--	--	--	--	--	--	--
26...	0	174	--	--	--	.21	--	.12	--	--
SEP.										
14...	0	160	210	14	.5	.20	--	.09	120	--

MISSOURI RIVER MAIN STEM

06807000 MISSOURI RIVER AT NEBRASKA CITY, NEBR.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)
OCT. 27...	--	--	--	--	--	--	708	8.2	--
NOV. 16...	--	--	--	--	--	--	731	7.9	--
DEC. 22...	--	--	--	--	--	--	799	7.9	--
JAN. 22...	531	.73	28900	250	66	2.0	802	7.9	3
FEB. 11...	--	--	--	--	--	--	773	7.6	--
MAR. 16...	--	--	--	--	--	--	494	7.6	--
APR. 08...	444	.62	58600	240	79	1.5	667	7.5	5
JUNE 29...	532	.72	83300	310	140	1.4	792	7.9	20
JULY 16...	479	.65	74100	230	64	1.8	734	7.2	20
AUG. 05...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	750	8.1	--
SEP. 14...	482	.66	64000	230	69	2.0	773	7.9	10

[illegible][illegible]

06807000 MISSOURI RIVER AT NEBRASKA CITY, NEBR.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	----	721	754	838	786	526	661	709	728	738	774	765
2	----	726	723	796	765	589	642	709	725	748	768	770
3	----	729	743	774	761	533	656	708	725	724	768	772
4	----	722	738	780	770	589	632	697	727	724	763	766
5	----	730	721	781	775	582	647	705	728	742	763	770
6	----	733	724	796	779	570	648	702	727	734	763	766
7	----	733	717	857	761	554	665	694	695	724	765	766
8	----	733	726	838	772	562	819	705	641	734	754	753
9	699	733	732	840	779	578	699	689	607	742	761	760
10	701	738	721	561	765	593	695	690	623	728	768	760
11	677	761	718	868	777	600	692	594	618	734	765	756
12	680	729	715	709	772	553	699	642	606	688	765	756
13	698	740	763	866	794	443	722	652	613	695	765	760
14	705	758	733	834	777	426	716	652	625	710	763	756
15	711	775	748	824	756	433	724	673	635	721	761	760
16	760	726	751	824	754	493	724	687	644	729	766	763
17	724	727	768	544	722	553	731	702	685	741	768	766
18	725	727	761	810	695	590	725	729	695	755	768	760
19	728	729	748	820	654	587	722	669	727	755	768	761
20	736	726	737	810	470	584	711	697	711	787	768	761
21	736	718	782	796	360	584	711	700	740	793	765	761
22	743	724	813	796	356	587	707	711	747	769	763	763
23	741	726	815	789	368	576	711	724	757	772	770	763
24	731	721	839	796	391	578	713	721	762	795	765	758
25	751	753	843	794	431	580	714	718	760	776	770	756
26	744	749	806	790	494	584	701	718	773	771	783	754
27	725	756	815	789	518	605	696	723	775	763	765	754
28	724	753	806	789	523	638	696	728	775	763	763	753
29	722	754	796	772	----	638	702	724	778	765	766	746
30	727	749	800	767	----	633	698	724	766	769	772	740
31	724	----	819	772	----	637	----	720	----	763	775	----
MONTH	----	737	764	788	654	567	699	697	704	747	766	760

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.5	8.5	3.5	0.0	0.0	1.5	3.5	13.5	18.5	25.0	21.0	22.0
2	17.0	8.0	4.0	0.0	0.0	1.5	3.5	13.5	19.0	25.0	21.0	23.0
3	16.5	7.0	3.5	0.0	0.5	1.5	3.5	12.0	20.5	25.0	22.0	23.5
4	16.5	6.5	2.0	0.0	0.5	1.5	4.0	12.0	20.0	25.0	23.0	23.5
5	16.5	6.5	2.0	0.0	0.0	1.5	5.5	13.0	20.5	25.0	22.0	23.0
6	15.5	6.5	1.0	0.0	0.0	1.5	5.5	13.5	21.5	25.5	21.5	22.0
7	20.0	7.0	1.0	0.0	0.0	1.5	5.5	13.5	21.5	25.5	21.5	22.0
8	19.0	7.0	1.0	0.0	0.0	1.5	6.5	13.5	21.5	25.5	21.5	22.0
9	13.5	7.0	1.0	0.0	0.0	2.0	7.0	13.5	21.0	25.5	23.5	21.0
10	11.0	7.0	1.0	0.0	0.0	2.0	7.0	14.5	21.0	25.5	24.0	21.5
11	10.0	7.0	0.5	0.0	0.0	2.0	9.0	15.0	21.0	25.5	24.0	22.0
12	9.0	6.5	0.5	0.0	0.0	2.0	9.5	14.5	21.0	25.5	24.0	22.0
13	10.0	6.5	0.0	0.0	0.5	2.0	9.0	14.5	23.0	25.5	24.5	21.0
14	10.0	6.0	0.0	0.0	1.0	2.0	9.0	14.5	23.5	25.0	24.5	21.0
15	9.0	5.5	0.0	0.0	1.0	2.0	9.5	14.5	23.5	24.5	24.5	19.5
16	8.5	4.5	0.0	0.0	1.0	2.0	9.5	14.5	24.0	24.5	24.5	19.0
17	8.5	4.5	0.5	0.0	1.0	3.0	9.5	14.5	24.5	24.5	24.5	18.0
18	9.5	4.5	0.5	0.0	1.5	3.0	9.5	14.5	24.5	25.0	23.5	17.0
19	10.0	4.5	0.0	0.0	1.5	3.0	9.5	15.0	24.5	25.0	24.5	15.5
20	10.0	4.0	0.0	0.0	1.0	3.0	10.0	15.0	24.5	25.0	24.5	16.0
21	11.0	4.0	0.0	0.0	1.0	3.0	10.0	15.0	26.0	25.0	24.0	16.0
22	11.0	4.0	0.0	0.0	1.0	3.0	10.0	15.0	26.0	25.0	24.0	16.5
23	11.5	3.5	0.0	0.0	1.0	3.5	10.0	15.0	25.5	24.5	25.0	15.5
24	11.5	1.5	0.0	0.0	1.0	3.5	10.0	16.5	26.0	24.5	25.0	15.0
25	14.0	1.0	0.0	0.5	1.5	3.5	11.0	15.0	26.0	24.5	25.0	15.0
26	13.5	0.5	0.0	0.5	1.5	3.5	11.5	15.0	26.0	24.0	25.0	15.0
27	13.0	1.0	0.0	0.0	1.5	3.0	13.0	15.0	26.0	24.0	23.5	16.5
28	14.5	0.5	0.0	0.0	1.5	3.5	13.5	15.0	25.5	21.5	23.5	18.5
29	10.0	2.0	0.0	0.0	----	3.5	13.5	15.0	25.5	22.0	23.0	18.5
30	10.0	3.0	0.0	0.5	----	3.5	13.5	16.0	25.5	21.0	22.0	18.5
31	10.0	----	0.0	0.0	----	3.5	----	16.0	----	21.0	22.0	----
MONTH	12.5	5.0	0.5	0.0	1.0	2.5	8.5	14.5	23.5	24.5	23.5	19.5

06824500 REPUBLICAN RIVER AT BENKELMAN, NEBR.

LOCATION.--Lat 40°01'55", long 101°32'30", in SE 1/4 sec.19, T.1 N., R.37 W., Dundy County, at gaging station at bridge on U.S. Highway 34, 0.6 mile south of Burlington Northern Inc. track, 1 mile southwest of Benkelman, 2 miles upstream from South Fork Republican River, and 11 miles downstream from Rock Creek.

DRAINAGE AREA.--4,830 sq mi, approximately, of which about 1,230 sq mi contributes directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED MAN- GANESE (MN) (UG/L)	DIS-SOLVED CAL- CIUM (CA) (MG/L)	DIS-SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)
OCT. 15...	40	--	47	16	--	--	--	19	4.6	--	--	.08
NOV. 19...	97	--	54	16	--	--	--	50	5.8	--	--	.01
DEC. 16...	91	12	56	17	24	252	206	59	4.8	1.2	--	.04
JAN. 14...	80	0	56	16	23	--	--	50	4.6	1.1	--	.10
FEB. 11...	114	--	48	15	--	--	--	58	3.6	--	--	.02
MAR. 25...	117	45	58	19	27	248	203	71	5.6	1.1	--	.00
APR. 15...	100	28	50	18	28	--	--	68	6.2	1.2	--	.00
MAY 13...	175	--	57	19	--	--	--	72	7.4	--	--	.00
JUNE 16...	39	0	52	21	34	--	--	100	6.9	1.2	.01	.10
JULY 16...	5.0	--	40	19	--	--	--	86	8.3	--	.02	.11
SEP. 22...	9.0	30	42	14	30	--	--	69	6.9	1.0	.05	.06

DATE	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)
OCT. 15...	.5	.03	--	323	.44	180	--	--	481	8.3	1.0	--
NOV. 19...	.8	.06	--	348	.47	200	--	--	514	--	1.0	--
DEC. 16...	1.0	.12	60	343	.47	210	2	.7	509	8.2	3.6	.00
JAN. 14...	1.4	.06	80	344	.47	210	--	.7	504	--	1.2	--
FEB. 11...	1.1	.14	--	322	.44	180	--	--	507	--	1.3	--
MAR. 25...	.9	.10	90	365	.50	220	18	.8	530	8.3	1.3	.00
APR. 15...	.4	.15	80	363	.49	200	--	.9	550	--	2.0	--
MAY 13...	.1	.15	--	396	.54	220	--	--	607	--	1.2	--
JUNE 16...	--	.15	80	416	.57	--	--	1.0	573	8.2	2.4	.01
JULY 16...	--	.12	--	352	.48	180	--	--	544	--	2.6	--
SEP. 22...	--	.06	120	312	.42	160	--	1.0	468	--	.9	.00

06824500 REPUBLICAN RIVER AT BENKELMAN, NEBR.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MOLYBDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
DEC. 16...	0	54	0	6.7	--	7	0	8	1	170
MAR. 25...	0	27	0	.3	--	2	0	0	1	40
JUNE 16...	1	28	16	--	.5	6	0	2	0	30
SEP. 22...	0	14	2	1.0	--	0	2	4	0	20

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)
DEC. 16...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR. 25...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUNE 16...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP. 22...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	PARATHION (UG/L)	METHYL PARATHION (UG/L)	MALATHION (UG/L)	DI-AZINON (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYLLIUM (BE) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)
DEC. 16...	.00	.03	.00	.00	.00	.00	20	--	0	0
MAR. 25...	.00	.02	.00	.00	.00	.00	30	0	0	0
JUNE 16...	.00	.00	.00	.00	.00	.00	10	--	0	3
SEP. 22...	.00	.00	--	--	--	--	3	--	0	0

FIELD DETERMINATIONS

DATE	DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 15...	40	500	7.9	6.0	--	11.5	94	0
NOV. 19...	97	500	8.0	4.0	--	11.6	--	15
DEC. 16...	91	530	8.1	.0	--	12.5	--	0
JAN. 14...	80	520	7.7	.0	--	9.8	--	66
FEB. 11...	114	490	8.1	1.0	--	12.7	--	120
MAR. 25...	117	560	8.1	4.0	--	11.8	--	14
APR. 15...	100	450	8.1	16.0	--	8.8	--	38
MAY 13...	175	580	8.4	18.0	--	8.7	--	190
JUNE 16...	39	600	8.4	25.0	--	7.7	--	880
JULY 16...	5.0	450	8.2	24.0	20	7.7	--	1500
SEP. 22...	9.0	480	7.9	6.5	10	10.6	--	780

KANSAS RIVER BASIN

06829500 REPUBLICAN RIVER AT TRENTON, NEBR.

LOCATION.--Lat 40°10'00", long 101°02'40", in SE $\frac{1}{4}$ sec.4, T.2 N., R.33 W., Hitchcock County, at gaging station 300 ft upstream from Elm Creek, 0.9 mile downstream from centerline of spillway of Trenton Dam, and 1.5 miles southwest of Trenton.

DRAINAGE AREA.--8,620 sq mi, approximately, of which about 3,940 sq mi contributes directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CaCO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
JULY 16...	66	10	41	20	41	14	236	0	194	76	11	1.3
DATE	NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH	COLOR (PLAT- INUM- COBALT UNITS)
JULY 16...	.22	.04	120	331	.45	59.0	180	0	1.3	540	8.2	8

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT. 15...	1.6	640	7.8	12.0	5	11.9
NOV. 19...	2.5	640	8.1	11.0	4	15.0
DEC. 16...	1.1	680	7.7	1.0	4	12.2
JAN. 14...	1.0	780	7.6	1.0	5	10.9
FEB. 11...	1.0	640	7.8	5.0	5	12.1
MAR. 25...	.91	730	7.9	3.0	--	11.9
APR. 15...	.90	680	7.8	13.0	5	12.1
MAY 13...	1.2	660	7.7	14.0	10	12.2
JUNE 16...	1.0	600	7.8	22.5	10	6.9
JULY 16...	66	560	8.1	26.0	15	7.7
AUG. 18...	102	500	8.6	23.0	20	7.7
SEP. 22...	1.1	630	8.1	11.5	10	12.9

06835500 FRENCHMAN RIVER AT CULBERTSON, NEBR.
(Formerly published as Frenchman Creek at Culbertson)

LOCATION.--Lat 40°14'05", long 100°52'40", in SW 1/4 sec.12, T.3 N., R.32 W., Hitchcock County, at gaging station at bridge on U.S. Highways 6 and 34, 2 miles west of Culbertson and 4.5 miles upstream from mouth.

DRAINAGE AREA.--2,770 sq mi, approximately, of which about 1,470 sq mi contributes directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: July 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	ALKALINITY AS CaCO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)
JULY 16...	28	56	59	23	33	17	329	0	270	55	6.8	1.1
DATE	NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)
JULY 16...	3.2	.12	150	427	.58	32.3	240	0	.9	626	8.2	20

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT. 15...	76	480	7.9	11.0	40	10.1
NOV. 19...	82	480	7.9	8.0	60	10.9
DEC. 16...	67	520	7.9	.0	60	12.6
JAN. 14...	75	540	7.6	.0	20	12.4
FEB. 11...	110	490	7.9	1.0	70	13.3
MAR. 25...	116	490	7.8	.0	100	12.5
APR. 15...	34	660	8.0	10.0	10	10.1
MAY 13...	90	530	8.0	12.0	120	8.9
JUNE 16...	61	420	7.9	20.5	250	7.3
JULY 16...	28	640	8.0	27.5	--	6.6
AUG. 18...	20	540	8.3	18.0	40	8.0
SEP. 22...	94	450	7.9	10.0	100	9.6

06837000 REPUBLICAN RIVER AT MC COOK, NEBR.

LOCATION.--Lat 40°11'15", long 100°37'05", in SW1/4 sec.32, T.3 N., R.29 W., Red Willow County, temperature recorder at gaging station at bridge on U.S. Highway 83 at south edge of McCook, 2.5 miles downstream from Driftwood Creek and 10.5 miles upstream from Red Willow Creek.

DRAINAGE AREA.--12,310 sq mi, approximately, of which about 6,260 sq mi contributes directly to surface runoff.

PERIOD OF RECORD.--Water temperatures: December 1966 to September 1971.

EXTREMES.--1970-71:

Water temperatures: Maximum, 38.5°C June 24; minimum, freezing point on many days during November to March.

Period of record:

Water temperatures: Maximum, 38.5°C June 24, 1971; minimum, freezing point on many days during winter period.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(RECORDER WITH TEMPERATURE ATTACHMENT, CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.5	13.0	10.0	5.0	8.5	3.0	0.5	0.0	0.5	0.0	2.0	0.0
2	23.5	11.0	5.0	4.0	5.0	0.5	0.0	0.0	0.5	0.0	4.5	0.0
3	20.5	11.5	5.5	3.0	6.0	0.5	0.0	0.0	0.5	0.5	5.0	0.0
4	23.0	11.0	9.5	3.0	5.0	0.0	0.0	0.0	0.5	0.5	8.5	0.5
5	24.5	13.0	10.5	1.5	5.0	0.0	0.0	0.0	0.5	0.0	5.5	2.0
6	23.0	13.5	12.0	4.0	4.5	0.0	0.5	0.0	0.5	0.0	4.0	0.5
7	16.0	7.0	10.5	6.0	5.5	0.0	0.5	0.0	0.5	0.0	5.0	0.0
8	7.0	3.5	9.0	4.5	6.5	0.0	0.5	0.0	0.5	0.0	6.5	0.0
9	13.5	3.0	10.5	4.5	4.5	1.5	0.5	0.0	0.5	0.0	9.5	3.5
10	15.5	8.0	10.5	4.5	3.0	0.0	0.5	0.0	1.0	0.0	9.0	3.5
11	15.0	9.5	10.0	5.0	1.0	0.0	0.0	0.0	1.0	0.5	10.0	4.5
12	19.0	7.0	9.5	4.0	1.5	0.0	0.5	0.0	1.0	0.5	11.0	5.0
13	15.5	10.0	8.0	5.0	1.0	0.0	0.5	0.0	1.0	0.0	13.0	6.0
14	10.5	8.5	8.0	3.5	1.0	0.0	0.5	0.0	1.0	0.5	11.0	8.0
15	15.5	5.0	8.0	0.5	1.5	0.0	0.5	0.0	4.0	0.5	9.0	5.0
16	15.0	5.5	9.0	2.0	2.0	0.0	0.5	0.0	8.0	4.0	9.0	5.0
17	12.0	7.0	11.0	4.0	3.5	0.0	0.5	0.0	4.5	1.0	8.5	5.0
18	13.0	8.0	10.5	4.5	0.5	0.0	0.0	0.0	4.5	3.0	8.0	3.5
19	15.0	9.5	9.5	4.0	0.5	0.0	0.5	0.0	3.0	0.5	5.0	2.0
20	18.5	10.0	8.5	1.5	0.5	0.0	0.5	0.0	1.0	0.0	8.0	2.0
21	18.5	10.0	6.5	2.0	0.0	0.0	0.5	0.0	0.0	0.0	8.5	5.5
22	14.5	9.5	3.0	0.5	1.0	0.0	0.5	0.0	0.5	0.0	8.0	5.5
23	19.0	11.0	0.5	0.0	0.5	0.0	0.5	0.0	1.0	0.0	6.0	4.0
24	17.0	8.0	0.5	0.0	0.5	0.0	0.5	0.0	1.5	0.5	4.5	3.0
25	16.0	10.0	5.5	0.0	0.5	0.0	0.5	0.0	4.0	0.5	5.0	3.0
26	10.0	6.5	4.0	1.0	0.5	0.0	0.5	0.0	4.0	1.5	9.0	5.0
27	11.5	5.0	4.0	0.0	0.5	0.0	0.5	0.0	3.5	1.0	11.5	8.5
28	9.5	5.0	3.5	0.0	0.5	0.0	0.5	0.0	3.0	1.0	13.0	11.0
29	9.0	5.0	5.5	0.0	0.5	0.0	0.5	0.0	---	---	15.0	10.0
30	11.0	5.5	9.5	2.0	0.5	0.0	0.5	0.0	---	---	17.0	7.0
31	7.0	4.0	---	---	0.5	0.0	0.5	0.0	---	---	17.0	9.5
MONTH	24.5	3.0	12.0	0.0	8.5	0.0	0.5	0.0	8.0	0.0	17.0	0.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	6.0	22.0	13.0	28.0	16.0	31.5	21.0	27.0	21.0	33.0	20.0
2	18.0	4.5	---	---	25.0	18.0	29.5	22.0	30.5	22.0	31.0	20.5
3	13.0	6.5	---	---	23.0	16.5	27.0	20.0	30.5	21.0	30.5	20.5
4	11.0	8.0	---	---	28.0	18.0	29.5	23.0	28.5	20.5	25.5	18.0
5	10.5	7.0	16.5	14.5	30.0	15.0	25.5	21.5	28.0	20.5	25.5	14.0
6	13.5	5.5	14.5	13.0	29.0	18.5	30.5	23.0	26.5	20.0	28.5	14.5
7	15.5	8.5	18.5	10.5	31.5	18.0	30.0	24.0	28.0	20.0	29.5	19.0
8	16.0	11.5	17.0	12.0	30.5	19.5	26.0	21.5	27.0	19.5	22.0	18.0
9	15.5	10.0	15.5	13.5	20.5	16.5	30.0	21.5	29.5	20.5	---	---
10	16.0	10.5	14.5	12.0	23.5	17.0	31.0	24.0	29.5	22.0	---	---
11	16.5	12.0	14.5	12.0	23.0	18.5	31.5	26.0	29.0	21.0	---	---
12	18.5	12.0	18.0	10.0	23.0	20.0	33.5	27.0	28.0	21.5	---	---
13	17.0	12.0	20.0	13.0	23.0	20.0	31.5	28.5	28.0	21.5	26.5	---
14	16.5	11.0	21.0	15.0	23.5	19.0	31.5	26.0	26.5	21.5	24.0	13.5
15	19.0	11.0	22.0	16.0	21.5	19.5	32.0	26.5	26.5	20.0	19.5	12.0
16	20.0	14.0	23.5	17.0	27.0	20.5	34.0	27.0	29.0	22.0	13.5	11.0
17	16.5	13.5	22.0	18.0	28.0	20.0	36.0	28.0	30.0	21.0	11.0	9.5
18	16.5	13.5	19.5	13.5	28.0	21.0	34.5	29.0	31.0	21.0	12.0	8.5
19	15.0	13.5	15.5	10.5	28.5	21.0	32.0	26.0	28.0	22.0	---	---
20	16.0	13.5	18.5	12.0	28.5	22.0	33.0	26.0	29.5	21.5	---	---
21	18.5	12.0	19.0	15.0	29.0	21.0	33.0	26.5	32.0	21.0	---	---
22	16.5	11.0	18.5	15.5	34.5	24.5	33.0	28.5	32.0	23.0	11.0	9.0
23	---	---	19.0	14.5	35.5	21.0	33.5	28.0	31.0	21.0	18.0	6.0
24	---	---	21.0	13.5	38.5	21.5	34.0	26.5	29.0	21.5	13.5	9.0
25	---	---	26.5	11.0	34.0	24.5	33.0	27.0	29.5	20.0	21.5	11.5
26	---	---	25.0	14.5	34.5	23.5	29.5	25.5	29.5	22.0	23.5	13.0
27	16.5	4.5	18.5	13.0	31.5	21.0	26.5	20.5	27.0	22.0	23.5	13.5
28	18.5	9.0	16.0	13.0	33.5	22.0	29.5	21.0	26.5	21.0	21.5	14.0
29	19.0	11.0	23.5	14.5	33.0	23.0	24.0	19.5	27.0	22.0	20.0	12.0
30	20.0	10.5	22.0	15.5	31.5	21.0	25.5	19.0	30.0	21.5	22.0	16.5
31	---	---	29.0	13.5	---	---	26.0	20.0	29.0	21.0	---	---
MONTH	20.0	4.5	29.0	10.0	38.5	15.0	36.0	19.0	32.0	19.5	---	---

06837900 RED WILLOW CREEK AT RED WILLOW DIVERSION DAM, NEAR MC COOK, NEBR.

LOCATION.--Lat 40°16'50", long 100°32'20", in SW 1/4 sec. 25, T.4 N., R.29 W., Red Willow County, at county road bridge 3 miles north and 2 miles west of Red Willow school house and about 6 miles northeast of McCook.

PERIOD OF RECORD.--Chemical analyses: July 1970 to September 1971.

REMARKS.--Discharges estimated from records for Red Willow Creek near McCook, Nebr. (sta 06837500) and Red Willow Creek near Red Willow, Nebr. (sta 06838000).

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CaCO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
JULY 16...	41	24	45	19	23	17	264	0	217	19	11	1.0
DATE	NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)
JULY 16...	.15	.08	100	290	.39	32.1	190	0	.7	462	8.0	30

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT. 15...	7.0	600	7.5	11.0	100	4.0
NOV. 19...	7.0	590	7.9	9.0	100	10.1
DEC. 16...	7.0	640	8.0	4.0	90	11.0
JAN. 14...	6.5	730	7.8	.0	70	11.9
FEB. 11...	6.5	630	8.0	7.0	120	10.5
MAR. 25...	7.5	620	8.0	7.0	100	10.5
APR. 15...	8.0	560	8.1	20.0	60	8.8
MAY 11...	51	600	8.0	19.0	110	8.4
JUNE 16...	105	490	7.9	20.0	300	6.4
JULY 16...	41	530	7.8	21.0	45	7.1
AUG. 18...	65	440	8.6	21.0	30	7.7
SEP. 22...	9.4	560	8.0	10.0	50	9.8

KANSAS RIVER BASIN

06842500 MEDICINE CREEK BELOW HARRY STRUNK LAKE, NEBR.

LOCATION.--Lat 40°22'20", long 100°13'20", at center of sec.25, T.5 N., R.26 W., Frontier County, at gaging station 0.5 mile downstream from Medicine Creek Dam and 6.5 miles northwest of Cambridge.

DRAINAGE AREA.--880 sq mi, approximately, of which about 640 sq mi contributes directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: July 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	ALKALINITY AS CaCO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)
JULY 19...	216	19	40	15	14	14	210	0	172	18	4.8	.8
DATE	NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)
JULY 19...	.31	.04	70	230	.31	134	160	0	.5	362	7.4	10

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT. 13...	2.2	460	8.1	13.0	20	11.9
NOV. 23...	.19	490	7.7	3.0	5	13.4
DEC. 21...	3.2	460	8.1	2.0	10	12.5
JAN. 18...	3.1	460	7.9	2.0	7	12.1
FEB. 16...	3.0	490	8.0	5.0	10	12.8
MAR. 31...	3.6	490	8.0	8.0	10	11.5
APR. 16...	2.6	505	7.8	9.0	15	10.1
MAY 11...	202	410	8.2	13.0	15	10.1
JUNE 08...	30	245	8.3	21.0	10	12.4
JULY 19...	216	360	7.2	24.5	10	7.6
AUG. 17...	123	375	8.3	24.0	10	7.5
SEP. 23...	2.4	410	7.8	12.0	20	10.2

KANSAS RIVER BASIN

113

06844500 REPUBLICAN RIVER NEAR ORLEANS, NEBR.

LOCATION.--Lat 40°07'53", long 99°30'08", in NE 1/4 sec.19, T.2 N., R.19 W., Harlan County, at gaging station at bridge on State Highway 89, 200 ft downstream from Burlington Northern Inc. bridge, 2 miles west of Orleans, 2.8 miles upstream from Sappa Creek, and 23 miles upstream from Harlan County Dam.

DRAINAGE AREA.--15,640 sq mi, approximately, of which about 8,910 sq mi contributes directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO2) (MG/L)	DIS-SOLVED CAL- CIUM (CA) (MG/L)	DIS-SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)
AUG. 03...	60	37	59	21	34	15	315	0	258	58	14	.6
DATE	NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)
AUG. 03...	.04	.12	120	394	.54	63.8	230	0	1.0	606	7.1	10

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT.						
07...	77	600	7.6	12.0	30	9.8
13...	105	620	7.6	11.0	30	10.1
20...	113	640	7.7	14.0	20	10.8
26...	123	640	7.7	9.0	20	10.0
NOV.						
04...	138	650	7.6	4.0	20	11.9
09...	144	640	7.8	7.0	20	11.3
17...	155	600	7.7	4.0	30	11.5
23...	107	760	7.7	1.0	25	12.9
DEC.						
02...	166	610	7.8	4.0	50	11.4
08...	144	670	7.9	1.0	30	12.9
14...	100	720	7.6	.0	10	12.4
21...	150	720	7.9	.0	10	12.2
29...	150	750	8.0	1.0	10	12.7
JAN.						
07...	58	850	7.7	.0	5	9.2
FEB.						
02...	194	620	7.7	.0	20	12.5
MAR.						
22...	240	700	8.1	4.0	70	10.8
APR.						
13...	162	720	8.2	15.0	25	10.6
MAY						
10...	274	640	8.2	16.0	70	9.2
JUNE						
07...	139	660	8.4	24.0	50	9.2
JULY						
08...	212	460	7.6	22.0	230	6.8
15...	134	510	7.8	25.0	140	7.8
22...	67	630	7.6	27.0	50	8.8
27...	70	570	8.2	27.0	50	9.0
AUG.						
03...	60	610	8.0	24.0	35	8.9
12...	65	490	7.8	26.0	50	10.2
17...	113	500	7.7	24.0	250	7.7
23...	56	520	8.8	25.0	50	8.7
31...	75	460	7.6	20.5	200	5.6
SEP.						
08...	37	580	8.2	21.0	50	9.8
14...	71	600	8.0	16.0	50	9.8
20...	88	560	7.9	9.5	85	9.8
27...	126	600	7.9	18.0	80	10.0

KANSAS RIVER BASIN

06849500 REPUBLICAN RIVER BELOW HARLAN COUNTY DAM, NEBR.

LOCATION.--Lat 40°04'45", long 99°10'05", in SW¹ sec.6, T.1 N., R.16 W., Franklin County, at gaging station 1.4 miles west of Naponee, 1.4 miles upstream from Turkey Creek, and 2.8 miles downstream from Harlan County Dam.

DRAINAGE AREA.--20,760 sq mi, approximately, of which about 13,550 sq mi contributes directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED CAL- CIUM (CA) (MG/L)	DIS-SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CACO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)
AUG. 03...	552	2.1	46	17	31	14	235	0	193	63	16	.6
DATE	NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS- PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)
AUG. 03...	.03	.12	90	305	.41	455	180	0	1.0	486	8.2	9

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT. 20...	12	640	7.3	15.0	15	12.1
NOV. 23...	11	640	7.6	2.0	10	13.6
DEC. 14...	12	660	7.6	1.0	10	11.9
JAN. 07...	8.1	700	7.7	.0	5	14.7
FEB. 02...	16	700	7.7	.0	10	15.4
MAR. 22...	9.5	640	7.8	4.0	15	12.3
APR. 13...	9.4	600	8.2	18.0	20	11.7
MAY 10...	10	590	7.9	17.0	30	9.2
JUNE 07...	8.3	600	8.1	28.0	60	8.8
JULY 08...	587	520	7.7	24.0	15	8.1
27...	711	500	7.6	24.0	50	8.2
AUG. 03...	552	360	7.9	24.0	20	8.0
SEP. 03...	164	520	7.8	22.5	20	8.3

KANSAS RIVER BASIN

115

06853000 REPUBLICAN RIVER NEAR GUIDE ROCK, NEBR.

LOCATION.--Lat 40°04'05", Long 98°22'25", in SW¹NE¹ sec.7, T.1 N., R.9 W., Webster County, at gaging station 300 ft upstream from Willow Creek, 0.2 mile downstream from Courtland diversion dam, and 2 miles southwest of Guide Rock.

DRAINAGE AREA.--22,040 sq mi, approximately, of which about 14,550 sq mi contributes directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: November 1961 to September 1971.

REMARKS.--Chemical analyses by Kansas State Department of Health, Topeka, Kans.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO ₃) (MG/L)	CAR-BONATE (CO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT. 07...	84	26	100	0	69	14	29	12	249	0	72	21
NOV. 17...	127	20	--	--	82	15	26	10	283	0	70	17
DEC. 16...	105	24	--	--	89	10	25	10	290	0	58	16
JAN. 07...	50	26	--	--	100	18	30	12	346	0	81	21
28...	100	22	--	--	75	10	22	8.8	239	12	39	16
FEB. 26...	115	23	--	--	75	14	21	11	261	0	55	16
MAR. 30...	150	11	--	--	85	14	25	11	276	0	71	20
APR. 28...	112	28	50	0	85	12	27	11	276	0	73	20
MAY 21...	122	33	--	--	80	14	27	11	271	0	72	19
JUNE 23...	33	34	--	--	83	15	27	12	271	0	82	20
JULY 16...	27	21	--	--	83	17	26	12	307	0	62	19
AUG. 20...	14	28	--	--	77	13	25	11	278	0	48	19
SEP. 23...	2.2	20	--	--	77	15	25	10	281	0	60	19

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	PHOS-PHATE (PO ₄) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TUR-BID-ITY (MG/L)	HARD-NESS (CA, MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)
OCT. 07...	.4	1.5	.43	120	371	.50	200	230	26	.8	570	7.9
NOV. 17...	.2	2.7	.58	170	394	.54	35	270	34	.7	600	7.9
DEC. 16...	.4	4.2	.61	--	395	.54	25	260	25	.7	620	7.6
JAN. 07...	.4	4.2	.80	120	486	.66	7	330	44	.7	730	7.7
28...	.2	2.9	.62	--	332	.45	7	230	12	.6	540	8.5
FEB. 26...	.3	4.0	1.2	--	364	.50	65	240	30	.6	570	7.8
MAR. 30...	.4	1.7	.56	80	388	.53	8	270	44	.7	620	8.1
APR. 28...	.4	1.3	.50	80	397	.54	8	260	36	.7	600	7.6
MAY 21...	.4	2.9	.78	40	394	.54	35	260	35	.7	600	8.1
JUNE 23...	.4	1.1	.67	90	426	.58	25	270	46	.7	630	7.8
JULY 16...	.3	3.8	.71	90	392	.53	8	280	25	.7	640	7.8
AUG. 20...	.5	4.9	.52	110	366	.50	7	250	18	.7	228	7.7
SEP. 23...	.4	1.8	.21	110	378	.51	3	254	24	.7	570	8.0

KANSAS RIVER BASIN

06881000 BIG BLUE RIVER NEAR CRETE, NEBR.

LOCATION.--Lat 40°35'47", long 96°57'36", in SW¹SE¹ sec.3, T.7 N., R.4 E., Saline County, at gaging station at highway bridge 1.8 miles south of Missouri Pacific Railroad station in Crete, 3.3 miles downstream from Walnut Creek, and 3.6 miles upstream from Squaw Creek.

DRAINAGE AREA.--2,716 sq mi.

PERIOD OF RECORD.--Chemical analyses: May 1961 to September 1962.

Water temperatures: October 1961 to September 1962, April 1968 to September 1971.

Sediment records: October 1961 to September 1962.

EXTREMES.--1970-71:

Water temperatures: Maximum, 28.5°C on several days during June and July; minimum, 0.5°C on many days during January to March.

Period of record:

Water temperatures: Maximum, 30.0°C July 30 to Aug. 1, 1970; minimum, freezing point on many days during winter period.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(RECORDER WITH TEMPERATURE ATTACHMENT, CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	15.5	7.0	6.0	8.0	4.0	1.5	1.0	1.5	0.5	0.5	0.5
2	18.0	16.0	6.0	6.0	7.0	6.0	1.5	1.0	1.0	0.5	0.5	0.5
3	16.5	15.0	6.0	6.0	6.0	5.0	1.0	1.0	1.0	1.0	0.5	0.5
4	16.0	14.0	6.0	5.5	5.5	4.5	1.0	1.0	1.0	0.5	0.5	0.5
5	18.5	15.0	6.5	5.5	4.5	4.0	1.0	1.0	1.0	0.5	0.5	0.5
6	19.0	17.0	7.0	5.5	4.0	2.0	1.0	1.0	1.5	1.0	1.0	0.5
7	18.0	14.5	8.0	6.5	3.0	1.5	1.0	1.0	1.5	1.0	1.0	0.5
8	14.5	10.5	8.0	7.0	3.5	2.0	1.0	1.0	1.0	0.5	1.0	0.5
9	10.5	9.5	8.0	7.0	4.5	3.5	1.5	1.0	1.0	0.5	---	---
10	9.5	6.5	7.0	6.0	4.0	3.0	1.5	1.0	2.0	1.0	---	---
11	8.0	6.5	7.0	6.0	3.0	1.5	1.5	1.0	2.0	1.0	---	---
12	8.5	8.0	6.0	5.5	2.0	1.5	1.0	1.0	2.0	0.5	---	---
13	9.0	8.5	5.5	5.5	2.0	1.5	1.5	1.0	1.5	0.5	---	---
14	9.0	8.0	5.5	5.5	2.0	1.5	1.5	1.0	2.0	1.0	---	---
15	9.0	8.0	5.5	3.5	1.5	1.5	1.5	1.0	1.5	0.5	---	---
16	8.5	8.0	4.0	3.5	1.5	1.5	1.5	1.0	0.5	0.5	---	---
17	8.5	8.5	5.0	4.0	1.5	1.0	1.5	1.0	0.5	0.5	---	---
18	9.0	8.5	5.5	4.5	1.5	1.0	1.5	1.0	0.5	0.5	---	---
19	9.5	9.0	5.5	5.0	1.5	1.0	1.5	1.0	0.5	0.5	---	---
20	11.0	9.5	5.5	4.5	1.5	1.0	2.0	1.0	0.5	0.5	---	---
21	12.0	11.0	5.0	4.5	1.0	1.0	2.0	1.5	0.5	0.5	---	---
22	13.5	11.5	5.0	3.5	1.0	1.0	2.0	1.0	0.5	0.5	---	---
23	14.0	13.0	3.5	2.0	1.0	1.0	2.0	1.0	0.5	0.5	---	---
24	14.0	14.0	2.0	1.5	1.5	1.0	2.0	1.0	0.5	0.5	---	---
25	14.0	13.5	3.0	1.5	1.0	1.0	2.0	1.0	0.5	0.5	---	---
26	13.5	11.0	2.0	1.5	1.5	1.0	1.0	1.0	0.5	0.5	---	---
27	11.0	9.5	1.5	1.5	2.0	1.0	1.5	1.0	0.5	0.5	---	---
28	9.5	8.5	1.5	1.5	1.5	1.0	1.5	1.0	0.5	0.5	---	---
29	8.5	8.0	2.0	1.5	2.0	1.0	1.5	1.0	---	---	---	---
30	8.5	8.0	4.0	1.5	1.5	1.0	1.0	1.0	---	---	10.5	8.5
31	7.0	7.0	---	---	2.0	1.0	1.0	0.5	---	---	12.0	10.5
MONTH	19.0	6.5	8.0	1.5	8.0	1.0	2.0	0.5	2.0	0.5	---	---

06881000 BIG BLUE RIVER NEAR CRETE, NEBR.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(RECORDER WITH TEMPERATURE ATTACHMENT, CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	9.5	15.5	14.0	20.5	18.0	27.0	23.5	24.0	20.0	25.0	22.0
2	9.5	8.5	15.5	13.5	20.5	19.0	26.5	22.0	25.0	23.0	25.0	22.0
3	9.5	9.0	16.0	14.0	21.5	19.5	24.5	22.0	25.0	23.0	25.5	22.0
4	9.5	9.5	16.5	14.5	23.5	21.0	27.0	23.0	24.0	22.0	24.5	22.0
5	9.5	8.5	19.0	16.0	25.0	21.5	27.0	24.0	24.0	21.0	22.0	19.0
6	9.5	8.5	18.0	15.0	25.0	24.0	28.0	24.5	23.0	21.5	23.0	19.0
7	11.0	9.5	15.0	13.0	24.5	21.5	28.5	25.0	23.5	21.0	24.0	20.5
8	11.5	11.0	15.0	11.5	24.5	23.0	28.5	25.5	25.0	21.5	23.5	21.5
9	13.5	11.5	15.5	14.0	23.5	22.0	27.0	24.0	25.5	23.0	21.5	18.5
10	14.0	12.0	14.0	13.0	23.0	21.0	28.5	25.0	26.5	24.0	23.0	19.0
11	15.5	13.5	14.0	13.5	24.5	21.5	28.5	24.0	26.0	23.0	23.0	19.5
12	16.0	14.5	14.0	11.5	25.0	23.5	28.0	24.5	25.5	23.0	22.0	19.0
13	16.0	14.5	14.0	13.0	25.0	23.5	28.0	26.0	26.5	23.5	21.5	18.0
14	15.5	13.5	15.0	14.0	24.5	23.0	26.0	25.0	26.0	23.5	20.0	18.0
15	16.0	14.0	17.0	15.0	25.5	23.0	27.0	24.0	26.0	23.0	18.0	16.0
16	16.0	15.5	19.5	16.5	25.5	23.5	27.0	24.0	27.0	23.5	16.5	14.5
17	15.5	14.5	19.5	18.5	25.5	23.5	28.5	25.0	26.5	23.5	14.5	14.0
18	16.5	15.5	19.5	15.5	26.5	24.0	28.0	24.5	26.0	23.0	14.5	13.5
19	18.0	16.0	15.5	14.0	26.5	25.0	26.0	24.0	26.5	23.5	15.0	12.0
20	17.0	15.5	16.0	14.5	26.0	24.5	26.0	23.0	26.0	23.5	16.0	13.0
21	16.5	14.5	16.0	14.0	26.0	24.0	26.0	23.5	26.0	22.0	15.5	14.0
22	16.5	15.5	14.0	13.5	26.5	24.5	25.5	23.0	27.0	24.0	15.0	14.0
23	16.0	14.0	17.0	14.0	26.5	24.0	25.0	23.0	28.0	24.5	15.0	11.5
24	16.5	15.0	17.0	15.0	28.5	25.0	26.0	23.0	27.0	24.5	15.0	12.0
25	16.0	14.5	16.5	13.5	28.0	25.0	26.0	23.0	25.0	21.0	15.5	14.0
26	14.5	13.5	16.5	15.0	26.5	23.5	24.0	21.0	24.5	21.5	19.5	15.0
27	15.0	13.0	17.0	14.0	26.5	23.5	24.0	21.0	23.5	20.5	21.5	18.5
28	15.0	13.0	18.5	16.0	27.0	23.0	24.0	21.0	22.0	19.0	22.0	19.5
29	14.0	13.0	18.5	17.0	26.5	24.5	24.0	20.5	23.0	19.5	21.0	18.5
30	14.5	13.0	18.0	17.0	28.0	23.0	22.0	19.0	23.0	20.0	20.5	19.0
31	---	---	20.0	17.0	---	---	22.0	19.5	24.0	20.5	---	---
MONTH	18.0	8.5	20.0	11.5	28.5	18.0	28.5	19.0	28.0	19.0	25.5	11.5

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CACO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)
NIOBRARA RIVER BASIN												
06462450 - PLUM CREEK AT JOHNSTOWN, NEBR (LAT 42 34 08 LONG 100 06 22)												
NOV., 1970												
04... 20		55	30	43	20	2.8	5.9	5.0	89	0	73	4.4
MAY, 1971												
04... 41		44	200	27	35	6.5	14	8.3	168	0	138	6.2
06462470 - PLUM CREEK NEAR JOHNSTOWN, NEBR (LAT 42 40 01 LONG 100 03 26)												
NOV., 1970												
04... 64		59	0	0	20	3.0	6.4	5.2	99	0	81	4.5
MAY, 1971												
04... 117		51	150	27	34	6.0	13	8.1	162	0	133	6.2
06463090 - BONE CREEK AT AINSWORTH, NEBR (LAT 42 32 51 LONG 099 52 33)												
NOV., 1970												
04... 1.8		50	200	15	18	3.0	6.2	5.3	76	0	62	4.5
MAY, 1971												
04... 3.2		43	210	75	24	3.7	7.2	4.9	95	0	78	4.4
06463350 - BONE CREEK NEAR LONG PINE, NEBR (LAT 42 40 16 LONG 099 46 06)												
NOV., 1970												
04... 30		55	10	70	27	4.2	9.4	6.6	123	0	101	6.5
MAY, 1971												
04... 33		51	140	15	33	4.7	8.6	7.2	133	0	109	5.9
DATE	CHLO- RIDE (CL) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)	NITRATE (N) (MG/L)	DIS-SOLVED PHOS- PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)
06462450 - PLUM CREEK AT JOHNSTOWN, NEBR (LAT 42 34 08 LONG 100 06 22)												
NOV., 1970												
04... 1.3		.4	.9	.16	30	142	.19	61	.3	161	8.0	4
MAY, 1971												
04... 3.2		.8	.2	.16	70	218	.30	110	.6	263	8.1	48
06462470 - PLUM CREEK NEAR JOHNSTOWN, NEBR (LAT 42 40 01 LONG 100 03 26)												
NOV., 1970												
04... 1.2		.3	.3	.06	50	157	.21	62	.4	169	8.0	3
MAY, 1971												
04... 2.6		.8	.4	.13	60	222	.30	110	.5	270	7.7	49
06463090 - BONE CREEK AT AINSWORTH, NEBR (LAT 42 32 51 LONG 099 52 33)												
NOV., 1970												
04... 1.7		.3	1.4	.18	0	145	.20	57	.4	212	7.7	21
MAY, 1971												
04... 2.2		.3	1.4	.21	40	151	.21	75	.4	162	7.7	42
06463350 - BONE CREEK NEAR LONG PINE, NEBR (LAT 42 40 16 LONG 099 46 06)												
NOV., 1970												
04... 3.1		.4	.7	.35	40	184	.25	85	.4	218	7.9	8
MAY, 1971												
04... 4.0		.4	.8	.39	40	182	.25	100	.4	217	8.0	23
DATE	DIS-CHARGE (CFS)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CACO ₃ (MG/L)	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
KANSAS RIVER BASIN												
06853400 - REPUBLICAN RIVER AT SUPERIOR, NEBR. (LAT 40 01 01 LONG 098 05 15)												
DEC., 1970												
14... 110		50	84	15	38	300	0	246	69	14	.4	--
MAR., 1971												
22... 250		44	76	14	25	--	--	--	70	16	.3	--
JUNE												
14... 1650		140	55	11	6.4	--	--	--	29	5.1	.4	1.5
SEP.												
20... 25		10	77	15	25	--	--	--	78	19	.7	.19

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)
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KANSAS RIVER BASIN--Continued

06853400 - REPUBLICAN RIVER AT SUPERIOR, NEBR. (LAT 40 01 01 LONG 098 05 15)

DEC., 1970												
14...	.16	1.3	.25	.16	200	409	.56	121	270	27	1.0	602
MAR., 1971												
22...	.02	1.0	.33	--	40	398	.54	269	250	--	.7	610
JUNE												
14...	.21	--	.80	--	50	190	.26	846	180	--	.2	252
SEP.												
20...	.06	--	.23	--	110	394	.54	26.6	250	--	.7	614

DATE	PH (UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
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06853400 - REPUBLICAN RIVER AT SUPERIOR, NEBR. (LAT 40 01 01 LONG 098 05 15)

DEC., 1970											
14...	7.9	1.3	.00	.00	.00	.00	.00	.01	.01	.00	.00
MAR., 1971											
22...	--	1.6	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUNE											
14...	--	5.1	.01	.00	.00	.00	.00	.00	.01	.00	.00
SEP.											
20...	--	1.5	.00	--	--	--	--	--	--	--	--

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	MALA- THION (UG/L)	DI- AZINON (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)
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06853400 - REPUBLICAN RIVER AT SUPERIOR, NEBR. (LAT 40 01 01 LONG 098 05 15)

DEC., 1970											
14...	.00	.00	.00	.00	.00	.00	.00	.00	.00	0	--
MAR., 1971											
22...	.00	.00	.00	.00	.00	.00	.00	.00	.00	0	0
JUNE											
14...	.00	.01	.25	.03	.00	.00	.00	.00	.00	9	--
SEP.											
20...	--	--	--	--	--	--	--	--	--	2	--

DATE	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED MOLY- BDENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
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06853400 - REPUBLICAN RIVER AT SUPERIOR, NEBR. (LAT 40 01 01 LONG 098 05 15)

DEC., 1970											
14...	0	0	0	20	0	.2	4	0	4	2	60
MAR., 1971											
22...	0	0	0	10	0	.2	0	1	0	1	60
JUNE											
14...	--	5	1	64	21	--	1	--	8	2	110
SEP.											
20...	0	1	0	44	27	.4	3	2	5	0	30

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)
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06853400 - REPUBLICAN RIVER AT SUPERIOR, NEBR. (LAT 40 01 01 LONG 098 05 15)

DEC., 1970						
14...	110	650	8.0	.0	13.1	1100
MAR., 1971						
22...	250	620	7.8	9.0	10.4	1100
JUNE						
14...	1650	220	7.5	21.0	5.7	9300
SEP.						
20...	25	600	7.9	18.0	11.5	150

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)
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WHITE RIVER BASIN

06445650 - BOWEN FARM POND NEAR CHADRON, NEBR. (LAT 42 59 10 LONG 103 00 00)

NOV., 1970							
16...	--	405	210	0	173	980	13

PONCA RIVER BASIN

06453570 - MICANEK FARM POND NEAR LYNCH, NEBR. (LAT 42 52 59 LONG 098 24 36)

OCT., 1970							
29...	.50	42	100	0	82	660	11

06453600 - PONCA CREEK AT VERDEL, NEBR (LAT 42 48 40 LONG 098 10 35)

OCT., 1970							
29...	.60	51	238	0	195	590	19
APR., 1971							
29...	170	--	--	--	--	--	--

NIOBRARA RIVER BASIN

06464900 - KEYA PAHA RIVER NEAR NAPER, NEBR. (LAT 42 55 00 LONG 099 05 50)

OCT., 1970							
28...	45	--	--	--	--	--	--

DATE	NITRATE (N) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH	DIS- SOLVED SELE- NIUM (SE) (UG/L)
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WHITE RIVER BASIN

06445650 - BOWEN FARM POND NEAR CHADRON, NEBR. (LAT 42 59 10 LONG 103 00 00)

NOV., 1970							
16...	.2	300	130	10	2210	7.7	12

PONCA RIVER BASIN

06453570 - MICANEK FARM POND NEAR LYNCH, NEBR. (LAT 42 52 59 LONG 098 24 36)

OCT., 1970							
29...	.4	720	640	.7	1300	7.6	8

06453600 - PONCA CREEK AT VERDEL, NEBR (LAT 42 48 40 LONG 098 10 35)

OCT., 1970							
29...	.00	720	530	.8	1350	7.7	20
APR., 1971							
29...	.6	--	--	--	928	--	12

NIOBRARA RIVER BASIN

06464900 - KEYA PAHA RIVER NEAR NAPER, NEBR. (LAT 42 55 00 LONG 099 05 50)

OCT., 1970							
28...	.5	--	--	--	396	--	4

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)
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MISSOURI RIVER MAIN STEM

06601200 - MISSOURI RIVER AT DECATUR, NEBR. (LAT 42 00 26 LONG 096 14 29)

AUG., 1971												
31... 48200	--	--	--	59	23	--	--	--	--	--	--	210
SEP.												
28... 49500	--	--	--	59	22	--	--	--	--	--	--	220

06610670 - MISSOURI RIVER AT BELLEVUE, NEBR. (LAT 41 08 35 LONG 095 53 00)

OCT., 1970												
09... 47400	7.3	0	32	55	21	64	5.5	182	0	150	190	
AUG., 1971												
31... 48800	--	--	--	58	23	--	--	--	--	--	220	
SEP.												
28... 48700	--	--	--	61	22	--	--	--	--	--	220	

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	SODIUM AD- SORP- TION RATIO
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MISSOURI RIVER MAIN STEM--Continued

06601200 - MISSOURI RIVER AT DECATUR, NEBR. (LAT 42 00 26 LONG 096 14 29)

AUG., 1971												
31...	12	--	.12	.14	--	.08	--	488	.66	63500	240	--
SEP.												
28...	12	--	.15	.10	--	.10	--	502	.68	67100	240	--

06610670 - MISSOURI RIVER AT BELLEVUE, NEBR. (LAT 41 08 35 LONG 095 53 00)

OCT., 1970												
09...	12	.5	--	--	.3	--	30	462	.63	59100	220	1.9
AUG., 1971												
31...	13	--	.12	.20	--	.14	--	498	.68	65600	240	--
SEP.												
28...	24	--	.15	.11	--	.10	--	528	.72	69400	240	--

DATE	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
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06601200 - MISSOURI RIVER AT DECATUR, NEBR. (LAT 42 00 26 LONG 096 14 29)

AUG., 1971												
31...	750	--	--	3.0	--	--	--	--	--	--	--	--
SEP.												
28...	757	--	--	.9	--	--	--	--	--	--	--	--

06610670 - MISSOURI RIVER AT BELLEVUE, NEBR. (LAT 41 08 35 LONG 095 53 00)

OCT., 1970												
09...	685	7.9	6	--	3	4	--	0	0	0	.0	17
AUG., 1971												
31...	757	--	--	3.1	--	--	--	--	--	--	--	--
SEP.												
28...	763	--	--	1.4	--	--	--	--	--	--	--	--

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)
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06601200 - MISSOURI RIVER AT DECATUR, NEBR. (LAT 42 00 26 LONG 096 14 29)

AUG., 1971							
31...	48200	780	7.3	22.0	20	7.4	1200
SEP.							
28...	49500	795	7.3	17.5	15	8.8	3200

06610670 - MISSOURI RIVER AT BELLEVUE, NEBR. (LAT 41 08 35 LONG 095 53 00)

AUG., 1971							
31...	48800	820	--	24.0	25	7.2	23000
SEP.							
28...	48700	810	7.2	18.0	15	8.5	23000

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)
PAPILLION CREEK BASIN												
06610730 - TR TO B PAPILLION C NR IRVINGTON NB (CE SITE 16 (LAT 41 18 52 LONG 096 07 10))												
OCT., 1970												
29...	.70	81	23	22	5.7	370	0	303	34	4.6	.00	1.7
DEC.												
17...	.62	83	22	21	4.3	372	0	305	34	3.0	.04	1.6
JAN., 1971												
21...	.51	83	22	22	4.8	367	0	301	36	2.4	.11	1.5
FEB.												
25...	.70	76	21	20	9.6	329	0	270	43	5.0	.42	3.4
MAR.												
24...	.55	80	22	20	5.6	350	0	287	44	4.4	.10	3.9
06610750 - L PAPILLION C NR IRVINGTON, NEBR. (USCE SITE 11 (LAT 41 20 10 LONG 096 03 10))												
OCT., 1970												
28...	.80	95	29	19	5.1	439	0	360	38	11	.04	1.4
DEC.												
17...	5.0	95	27	18	2.7	424	0	347	36	5.8	.80	2.3
FEB., 1971												
24...	4.0	99	28	18	6.8	407	0	334	44	6.2	.14	3.7
MAR.												
25...	4.8	95	26	17	3.4	396	0	324	39	7.2	--	5.2
06610760 - THOMAS CREEK NR BENNINGTON, NEBR. (USCE SITE 10 (LAT 41 21 53 LONG 096 06 00))												
OCT., 1970												
29...	.40	99	30	22	3.7	448	0	368	35	7.8	.09	2.0
DEC.												
17...	.80	97	26	21	2.8	430	0	353	35	6.2	.18	2.1
JAN., 1971												
21...	.75	91	25	21	2.5	403	0	331	34	5.4	.30	1.6
FEB.												
25...	.90	87	27	19	6.1	395	0	324	39	7.8	.28	3.2
MAR.												
24...	1.1	90	26	19	3.3	401	0	329	38	5.6	.18	4.8
06610790 - TR TO S PAPILLION C AT CHALCO NB (USCE SITE 20) (LAT 41 10 34 LONG 096 08 53)												
OCT., 1970												
29...	.50	85	25	25	6.9	390	0	319	37	9.8	.04	2.5
DEC.												
16...	.49	84	23	24	3.8	389	0	319	33	8.8	.02	3.2
JAN., 1971												
20...	.45	90	25	26	6.3	417	0	342	37	8.2	.21	2.2
FEB.												
24...	.51	81	23	22	14	355	0	291	41	10	.24	2.9
MAR.												
24...	.40	88	24	24	6.7	386	0	316	39	8.2	.18	4.4

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TOMS PER AC-FT)	DIS- SOLVED SOLIDS (TOMS PER DAY)	HARD- NESS (CA, MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	TOTAL MERCURY (HG) (UG/L)
PAPILLION CREEK BASIN--Continued												
06610730 - TR TO B PAPILLION C NR IRVINGTON NB (CE SITE 16 (LAT 41 18 52 LONG 096 07 10))												
OCT., 1970												
29...	.13	391	.53	.74	300	.6	599	8.0	4	6	1.6	.0
DEC.												
17...	.08	366	.50	.61	300	.5	601	8.1	100	4	2.0	.0
JAN., 1971												
21...	.04	378	.51	.52	300	.6	730	8.1	2	1	1.4	.0
FEB.												
25...	.14	382	.52	.72	280	.5	563	7.7	15	7	1.1	.0
MAR.												
24...	.10	438	.60	.65	290	.5	608	8.3	9	29	1.2	.0
06610750 - L PAPILLION C NR IRVINGTON, NEBR. (USCE SITE 11 (LAT 41 20 10 LONG 096 03 10))												
OCT., 1970												
28...	.21	445	.61	.96	360	.4	651	8.0	15	13	3.8	.0
DEC.												
17...	.08	416	.57	5.62	350	.4	669	8.2	100	6	1.9	.4
FEB., 1971												
24...	.43	440	.60	4.75	360	.4	691	7.9	50	20	1.0	.0
MAR.												
25...	.12	426	.58	5.52	340	.4	665	8.3	10	4	1.6	.0
06610760 - THOMAS CREEK NR BENNINGTON, NEBR. (USCE SITE 10 (LAT 41 21 53 LONG 096 06 00))												
OCT., 1970												
29...	.28	466	.63	.50	370	.5	709	8.1	15	10	2.1	.0
DEC.												
17...	.20	430	.58	.93	350	.5	713	8.2	100	6	2.5	.0
JAN., 1971												
21...	.18	412	.56	.83	330	.5	639	8.1	7	5	2.7	.0
FEB.												
25...	.68	524	.71	1.27	330	.5	646	7.9	700	37	.4	.0
MAR.												
24...	.20	388	.53	1.15	330	.5	668	8.3	15	1	1.4	.0
06610790 - TR TO S PAPILLION C AT CHALCO NB (USCE SITE 20) (LAT 41 10 34 LONG 096 08 53)												
OCT., 1970												
29...	.21	422	.57	.57	320	.6	646	8.2	10	11	2.6	4.9
DEC.												
16...	.26	422	.57	.56	300	.6	608	8.0	15	17	4.6	.0
JAN., 1971												
20...	.20	435	.59	.53	330	.6	700	8.1	15	5	6.3	.0
FEB.												
24...	.26	404	.55	.56	300	.6	645	7.9	10	19	2.1	.0
MAR.												
24...	.15	--	1.30	1.03	320	.6	651	8.3	15	2	1.1	.1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (CO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)
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PLATTE RIVER BASIN

06682000 - NORTH PLATTE RIVER NEAR MINATARE, NEBR. (LAT 41 47 26 LONG 103 31 11)

OCT., 1970	15...	1330	37	360	22	83	21	100	17	314	0	257
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06770486 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 4) (LAT 40 49 18 LONG 098 20 24)

JAN., 1971	28...	1460	--	--	--	--	--	--	--	244	0	200
FEB.	25...	1340	--	--	--	--	--	--	--	--	--	220
MAR.	24...	1420	23	20	25	87	27	86	11	245	0	201
APR.	23...	1420	--	--	--	--	--	--	--	--	--	--
MAY	20...	4920	16	180	95	81	24	88	9.8	236	0	193
JUNE	23...	4890	--	--	--	--	--	--	--	--	--	--

06770489 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 1) (LAT 40 50 57 LONG 098 20 23)

JAN., 1971	28...	680	--	--	--	--	--	--	--	243	0	199
FEB.	25...	624	--	--	--	--	--	--	--	--	--	207
MAR.	24...	660	24	0	22	84	26	92	11	242	0	198
APR.	23...	586	--	--	--	--	--	--	--	--	--	--
MAY	20...	2030	18	240	480	84	24	88	10	242	0	198
JUNE	23...	1460	--	--	--	--	--	--	--	--	--	--
JULY	21...	230	--	10	16	--	--	--	--	--	--	--
AUG.	18...	152	--	10	0	--	--	--	--	--	--	--
SEP.	15...	248	24	20	0	62	22	83	12	236	0	194

DATE	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	NITRITE (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)
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06682000 - NORTH PLATTE RIVER NEAR MINATARE, NEBR. (LAT 41 47 26 LONG 103 31 11)

OCT., 1970	15...	220	21	.6	--	--	--	--	--	.5
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06770486 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 4) (LAT 40 49 18 LONG 098 20 24)

JAN., 1971	28...	--	29	--	--	--	--	--	--	.5
FEB.	25...	--	35	--	--	--	--	--	--	1.1
MAR.	24...	290	32	--	.74	.74	--	.000	--	.24
APR.	23...	--	32	--	--	--	--	--	--	.00
MAY	20...	250	28	--	.52	--	--	.000	--	.01
JUNE	23...	--	25	--	--	--	--	.02	--	--

06770489 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 1) (LAT 40 50 57 LONG 098 20 23)

JAN., 1971	28...	--	30	--	--	--	--	--	--	.5
FEB.	25...	--	32	--	--	--	--	--	--	.9
MAR.	24...	280	33	--	.70	.70	--	.010	--	.18
APR.	23...	--	33	--	--	--	--	--	--	.00
MAY	20...	250	29	--	.52	--	--	.000	--	.20
JUNE	23...	--	24	--	--	--	--	.08	--	--
JULY	21...	--	27	--	--	--	--	.18	--	--
AUG.	18...	--	27	--	--	--	--	.02	--	--
SEP.	15...	210	26	--	.59	.62	.62	.000	.00	.03

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
------	---	--	--	--	---	--	--	---------------------------------	---------------------------------------	--

PLATTE RIVER BASIN--Continued

06682000 - NORTH PLATTE RIVER NEAR MINATARE, NEBR. (LAT 41 47 26 LONG 103 31 11)

OCT., 1970										
15...	--	.00	140	678	654	.92	2440	--	--	--

06770486 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 4) (LAT 40 49 18 LONG 098 20 24)

JAN., 1971										
28...	.07	.07	--	--	--	--	--	--	--	--
FEB.										
25...	.14	.09	--	--	--	--	--	--	--	--
MAR.										
24...	.13	.05	150	--	--	--	--	--	--	--
APR.										
23...	.05	.01	--	--	--	--	--	--	--	--
MAY										
20...	.10	.03	160	--	--	--	--	--	--	--
JUNE										
23...	.15	.13	--	--	--	--	--	--	--	--

06770489 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 1) (LAT 40 50 57 LONG 098 20 23)

JAN., 1971										
28...	.09	.07	--	--	--	--	--	--	--	--
FEB.										
25...	.58	.05	--	--	--	--	--	--	--	--
MAR.										
24...	.11	.07	150	--	--	--	--	--	--	--
APR.										
23...	.48	.03	--	--	--	--	--	--	--	--
MAY										
20...	.05	.02	140	--	--	--	--	--	--	--
JUNE										
23...	.20	.15	--	--	--	--	--	--	--	--
JULY										
21...	--	.05	--	--	--	--	--	--	--	--
AUG.										
18...	--	.10	--	--	--	--	--	--	--	--
SEP.										
15...	.33	.07	140	570	556	.78	382	--	--	--

DATE	VOL. NON- SETTLE- ABLE RESIDUE (MG/L)	HARD- NESS (CA, MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
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06682000 - NORTH PLATTE RIVER NEAR MINATARE, NEBR. (LAT 41 47 26 LONG 103 31 11)

OCT., 1970										
15...	--	290	36	2.5	919	8.1	1	--	--	--

06770486 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 4) (LAT 40 49 18 LONG 098 20 24)

JAN., 1971										
28...	--	--	--	--	980	7.7	--	--	--	.00
FEB.										
25...	--	--	--	--	1060	--	--	--	--	.00
MAR.										
24...	--	330	130	2.1	1000	8.1	--	--	.00	.00
APR.										
23...	--	--	--	--	909	--	--	--	--	.00
MAY										
20...	--	300	110	2.2	898	8.3	--	--	.00	.00
JUNE										
23...	--	--	--	--	867	--	--	--	--	.00

06770489 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 1) (LAT 40 50 57 LONG 098 20 23)

JAN., 1971										
28...	--	--	--	--	952	7.9	--	--	--	.00
FEB.										
25...	--	--	--	--	963	--	--	--	--	.00
MAR.										
24...	--	320	120	2.2	993	8.2	--	--	.00	.00
APR.										
23...	--	--	--	--	897	--	--	--	--	.00
MAY										
20...	--	310	110	2.2	916	8.2	--	--	.00	.00
JUNE										
23...	--	--	--	--	857	--	--	--	--	.01
JULY										
21...	--	--	--	--	830	--	--	--	--	--
AUG.										
18...	--	--	--	--	823	--	--	--	--	--
SEP.										
15...	--	250	52	2.3	863	8.0	--	--	.00	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)
PLATTE RIVER BASIN--Continued												
06682000 - NORTH PLATTE RIVER NEAR MINATARE, NEBR. (LAT 41 47 26 LONG 103 31 11)												
OCT., 1970 15...	--	--	--	--	--	--	--	--	--	--	--	--
06770486 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 4) (LAT 40 49 18 LONG 098 20 24)												
JAN., 1971 28...	--	--	--	--	--	--	--	--	--	--	--	--
FEB. 25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 24...	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
APR. 23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE 23...	--	--	--	--	--	--	--	--	--	--	--	--
06770489 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 1) (LAT 40 50 57 LONG 098 20 23)												
JAN., 1971 28...	--	--	--	--	--	--	--	--	--	--	--	--
FEB. 25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 24...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
APR. 23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE 23...	--	--	--	--	--	--	--	--	--	--	--	--
JULY 21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 18...	--	--	--	--	--	--	--	--	--	--	--	--
SEP. 15...	--	--	--	--	--	--	--	--	--	--	--	--
DATE	SILVEX (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	MALA- THION (UG/L)	DI- AZINON (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
06682000 - NORTH PLATTE RIVER NEAR MINATARE, NEBR. (LAT 41 47 26 LONG 103 31 11)												
OCT., 1970 15...	--	--	--	--	--	1	--	1	--	0	0	0
06770486 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 4) (LAT 40 49 18 LONG 098 20 24)												
JAN., 1971 28...	--	--	--	--	--	10	--	--	--	--	--	--
FEB. 25...	--	--	--	--	--	0	--	--	--	--	--	--
MAR. 24...	.00	.00	.00	.00	.00	0	0	0	--	0	--	--
APR. 23...	--	--	--	--	--	0	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	0	0	0	--	0	--	--
JUNE 23...	--	--	--	--	--	0	--	--	--	--	--	--
06770489 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 1) (LAT 40 50 57 LONG 098 20 23)												
JAN., 1971 28...	--	--	--	--	--	10	--	--	--	--	--	--
FEB. 25...	--	--	--	--	--	0	--	--	--	--	--	--
MAR. 24...	.00	.00	.00	.00	.00	0	0	0	--	0	--	--
APR. 23...	--	--	--	--	--	0	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	0	0	0	--	0	--	--
JUNE 23...	--	--	--	--	--	1	--	--	--	--	--	--
JULY 21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 18...	--	--	--	--	--	--	--	--	--	--	--	--
SEP. 15...	--	--	--	--	--	20	100	0	--	--	0	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED STRONTIUM (SR) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
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PLATTE RIVER BASIN--Continued

06682000 - NORTH PLATTE RIVER NEAR MINATARE, NEBR. (LAT 41 47 26 LONG 103 31 11)

OCT., 1970												
15...	--	0	.8	--	--	--	--	36	--	--	--	--

06770486 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 4) (LAT 40 49 18 LONG 098 20 24)

JAN., 1971												
28...	17	--	--	--	--	--	--	--	--	--	--	--
FEB.												
25...	13	--	--	--	--	--	--	--	--	--	--	--
MAR.												
24...	11	0	.0	.0	0	840	5.1	30	--	--	--	--
APR.												
23...	18	--	--	--	--	--	--	--	--	--	--	--
MAY												
20...	0	0	.0	.0	0	740	4.0	0	--	--	--	--
JUNE												
23...	4	--	--	--	--	--	--	--	--	--	--	--

06770489 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 1) (LAT 40 50 57 LONG 098 20 23)

JAN., 1971												
28...	45	--	--	--	--	--	--	--	--	--	--	--
FEB.												
25...	22	--	--	--	--	--	--	--	--	--	--	--
MAR.												
24...	3	0	.0	.0	0	780	4.1	20	--	--	--	--
APR.												
23...	68	--	--	--	--	--	--	--	--	--	--	--
MAY												
20...	15	0	.0	.0	0	770	4.0	0	--	--	--	--
JUNE												
23...	5	--	--	--	--	--	--	--	--	--	--	--
JULY												
21...	4	--	--	--	--	--	--	--	--	--	--	--
AUG.												
18...	9	--	--	--	--	--	--	--	--	--	--	--
SEP.												
15...	1	0	.3	.2	0	720	4.1	10	--	--	--	--

FIELD DETERMINATIONS

DATE	DIS-CHARGE (CFS)	ALKALINITY AS CaCO3 (MG/L)	NITRATE (N) (MG/L)	PH (UNITS)	TEMPERATURE (DEG C)
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06770486 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 4) (LAT 40 49 18 LONG 098 20 24)

FEB., 1971					
25...	1340	268	--	7.8	.5
MAR.					
24...	1420	215	--	7.8	.0
APR.					
23...	1420	197	--	7.7	10.5
MAY					
20...	4920	207	--	7.8	14.0
JUNE					
23...	4890	191	--	7.8	25.0

06770489 - PLATTE R. S. OF GRAND ISLAND, NEBR. (CHAN 1) (LAT 40 50 57 LONG 098 20 23)

FEB., 1971					
25...	624	252	--	7.6	.5
MAR.					
24...	660	212	--	7.9	.5
APR.					
23...	586	194	--	7.8	12.5
MAY					
20...	2030	210	--	7.8	14.5
JUNE					
23...	1460	196	--	7.7	27.0
JULY					
21...	230	197	.3	7.2	23.5
AUG.					
18...	152	195	.00	7.5	24.0
SEP.					
15...	248	194	.1	7.4	15.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	DIS- SOLVED CALCIUM (CA) (MG/L)	DIS- SOLVED MAGNESIUM (MG)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CACO ₃ (MG/L)
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PLATTE RIVER BASIN--Continued

06799300 - ELKHORN RIVER AT STANTON, NEBR. (LAT 41 56 25 LONG 097 13 06)											
NOV., 1970											
05...	351	34	50	66	53	8.7	16	7.2	214	0	175
06801330 - SALT CREEK NEAR ROCA, NEBR. (LAT 40 38 41 LONG 096 41 11)											
AUG., 1971											
12...	4.2	--	10	390	110	27	230	7.1	304	0	249
06801370 - HICKMAN BRANCH AT ROCA, NEBR. (LAT 40 39 02 LONG 096 40 02)											
AUG., 1971											
12...	.86	--	760	550	53	19	32	8.3	278	0	228
06803085 - BEAL SLOUGH AT LINCOLN, NEBR. (LAT 40 46 13 LONG 096 42 47)											
SEP., 1971											
10...	.15	--	50	500	78	20	75	13	288	0	236
06803098 - HAINES BRANCH AT LINCOLN, NEBR. (LAT 40 47 14 LONG 096 43 47)											
SEP., 1971											
08...	2.8	--	10	1200	94	50	2500	12	421	0	345
06803470 - NORTH OAK CREEK NEAR VALPARAISO, NEBR. (LAT 41 03 39 LONG 096 50 05)											
SEP., 1971											
08...	.80	--	20	260	74	25	35	9.3	351	0	288
06803485 - ELK CREEK NEAR LINCOLN, NEBR. (LAT 40 52 41 LONG 096 47 10)											
SEP., 1971											
08...	.12	--	20	1300	81	24	200	10	385	0	316
DATE	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)	

06799300 - ELKHORN RIVER AT STANTON, NEBR. (LAT 41 56 25 LONG 097 13 06)											
NOV., 1970											
05...	16	8.2	.4	--	--	--	--	--	--	--	.7
06801330 - SALT CREEK NEAR ROCA, NEBR. (LAT 40 38 41 LONG 096 41 11)											
AUG., 1971											
12...	180	320	.5	.38	.63	.57	--	.06	.19	--	--
06801370 - HICKMAN BRANCH AT ROCA, NEBR. (LAT 40 39 02 LONG 096 40 02)											
AUG., 1971											
12...	43	23	.5	.60	1.4	1.0	--	.37	.40	--	--
06803085 - BEAL SLOUGH AT LINCOLN, NEBR. (LAT 40 46 13 LONG 096 42 47)											
SEP., 1971											
10...	160	46	1.3	.28	1.4	1.2	--	.19	.92	--	--
06803098 - HAINES BRANCH AT LINCOLN, NEBR. (LAT 40 47 14 LONG 096 43 47)											
SEP., 1971											
08...	780	3400	.7	.00	.65	.48	--	.17	.61	--	--
06803470 - NORTH OAK CREEK NEAR VALPARAISO, NEBR. (LAT 41 03 39 LONG 096 50 05)											
SEP., 1971											
08...	51	14	.5	.19	.59	.41	--	.18	.22	--	--
06803485 - ELK CREEK NEAR LINCOLN, NEBR. (LAT 40 52 41 LONG 096 47 10)											
SEP., 1971											
08...	82	250	.5	.17	2.7	.89	--	1.8	.72	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 100 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
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PLATTE RIVER BASIN--Continued

06799300 - ELKHORN RIVER AT STANTON, NEBR. (LAT 41 56 25 LONG 097 13 06)

NOV., 1970 05...	--	.24	40	273	253	.37	259	--	--	--
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06801330 - SALT CREEK NEAR ROCA, NEBR. (LAT 40 38 41 LONG 096 41 11)

AUG., 1971 12...	.35	.22	--	1070	--	1.46	12.1	1160	160	1080
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06801370 - HICKMAN BRANCH AT ROCA, NEBR. (LAT 40 39 02 LONG 096 40 02)

AUG., 1971 12...	.31	.23	--	346	--	.47	.80	474	126	362
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06803085 - BEAL SLOUGH AT LINCOLN, NEBR. (LAT 40 46 13 LONG 096 42 47)

SEP., 1971 10...	1.1	.96	--	558	--	.76	.23	580	130	568
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06803098 - HAINES BRANCH AT LINCOLN, NEBR. (LAT 40 47 14 LONG 096 43 47)

SEP., 1971 08...	.33	.28	--	6720	--	9.14	50.8	6760	2160	6720
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06803470 - NORTH OAK CREEK NEAR VALPARAISO, NEBR. (LAT 41 03 39 LONG 096 50 05)

SEP., 1971 08...	.68	.68	--	418	--	.57	.90	1330	1070	420
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06803485 - ELK CREEK NEAR LINCOLN, NEBR. (LAT 40 52 41 LONG 096 47 10)

SEP., 1971 08...	.45	.20	--	868	--	1.18	.29	1000	312	880
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DATE	VOL. NON- SETTLE- ABLE RESIDUE (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
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06799300 - ELKHORN RIVER AT STANTON, NEBR. (LAT 41 56 25 LONG 097 13 06)

NOV., 1970 05...	--	170	0	.5	376	8.0	2	--	--	--
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06801330 - SALT CREEK NEAR ROCA, NEBR. (LAT 40 38 41 LONG 096 41 11)

AUG., 1971 12...	148	390	140	5.1	1700	6.7	9	2.3	--	--
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06801370 - HICKMAN BRANCH AT ROCA, NEBR. (LAT 40 39 02 LONG 096 40 02)

AUG., 1971 12...	116	210	0	1.0	541	7.3	20	2.7	--	--
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06803085 - BEAL SLOUGH AT LINCOLN, NEBR. (LAT 40 46 13 LONG 096 42 47)

SEP., 1971 10...	122	280	41	2.0	889	7.3	30	2.9	--	--
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06803098 - HAINES BRANCH AT LINCOLN, NEBR. (LAT 40 47 14 LONG 096 43 47)

SEP., 1971 08...	320	440	95	52	11400	8.2	30	3.5	--	--
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06803470 - NORTH OAK CREEK NEAR VALPARAISO, NEBR. (LAT 41 03 39 LONG 096 50 05)

SEP., 1971 08...	150	290	0	.9	648	7.8	20	1.9	--	--
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06803485 - ELK CREEK NEAR LINCOLN, NEBR. (LAT 40 52 41 LONG 096 47 10)

SEP., 1971 08...	152	300	0	5.0	1520	7.4	20	4.7	--	--
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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILVEX (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	MALA- THION (UG/L)	DI- AZINON (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
PLATTE RIVER BASIN--Continued												
06799300 - ELKHORN RIVER AT STANTON, NEBR. (LAT 41 56 25 LONG 097 13 06)												
NOV., 1970 05...	--	--	--	--	--	0	--	0	--	0	0	0
06801330 - SALT CREEK NEAR ROCA, NEBR. (LAT 40 38 41 LONG 096 41 11)												
AUG., 1971 12...	--	--	--	--	--	--	--	--	--	--	0	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP. 28...	--	--	--	--	--	--	--	--	--	--	--	--
06801370 - HICKMAN BRANCH AT ROCA, NEBR. (LAT 40 39 02 LONG 096 40 02)												
AUG., 1971 12...	--	--	--	--	--	--	--	--	--	--	0	--
06803085 - BEAL SLOUGH AT LINCOLN, NEBR. (LAT 40 46 13 LONG 096 42 47)												
SEP., 1971 10...	--	--	--	--	--	--	--	--	--	--	0	--
06803098 - HAINES BRANCH AT LINCOLN, NEBR. (LAT 40 47 14 LONG 096 43 47)												
SEP., 1971 08...	--	--	--	--	--	--	--	--	--	--	0	--
06803470 - NORTH OAK CREEK NEAR VALPARAISO, NEBR. (LAT 41 03 39 LONG 096 50 05)												
SEP., 1971 08...	--	--	--	--	--	--	--	--	--	--	0	--
06803485 - ELK CREEK NEAR LINCOLN, NEBR. (LAT 40 52 41 LONG 096 47 10)												
SEP., 1971 08...	--	--	--	--	--	--	--	--	--	--	0	--
DATE	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE D GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE D GROSS BETA AS SR90 /Y90 (PC/L)
06799300 - ELKHORN RIVER AT STANTON, NEBR. (LAT 41 56 25 LONG 097 13 06)												
NOV., 1970 05...	--	0	.0	.0	--	--	--	51	--	--	--	--
06801330 - SALT CREEK NEAR ROCA, NEBR. (LAT 40 38 41 LONG 096 41 11)												
AUG., 1971 12...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	<14	4.2	11	4.1
SEP. 28...	--	--	--	--	--	--	--	--	<13	9.1	14	6.3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
PLATTE RIVER BASIN--Continued								
06801330 - SALT CREEK NEAR ROCA, NEBR. (LAT 40 38 41 LONG 096 41 11)								
AUG., 1971 12...	4.2	7.7	23.5	35	6.6	990	4100	1000
06801370 - HICKMAN BRANCH AT ROCA, NEBR. (LAT 40 39 02 LONG 096 40 02)								
AUG., 1971 12...	.86	7.6	23.0	25	6.3	350	1600	820
06803085 - BEAL SLOUGH AT LINCOLN, NEBR. (LAT 40 46 13 LONG 096 42 47)								
SEP., 1971 10...	.15	6.6	18.5	3	4.8	10000	27000	15000
06803098 - HAINES BRANCH AT LINCOLN, NEBR. (LAT 40 47 14 LONG 096 43 47)								
SEP., 1971 08...	2.8	7.2	23.0	8	12.8	990	4600	1600
06803470 - NORTH OAK CREEK NEAR VALPARAISO, NEBR. (LAT 41 03 39 LONG 096 50 05)								
SEP., 1971 08...	.80	7.2	20.0	5	6.2	380	1800	900
06803485 - ELK CREEK NEAR LINCOLN, NEBR. (LAT 40 52 41 LONG 096 47 10)								
SEP., 1971 08...	.12	7.1	21.0	45	7.5	1600	4400	1000

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (NA) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CaCO ₃ (MG/L)
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PLATTE RIVER BASIN--Continued

06803515 - STEVENS CREEK NEAR WALTON, NEBR. (LAT 40 48 47 LONG 096 33 31)

SEP., 1971											
10...	.18	--	10	1000	84	19	49	6.3	396	0	325

06803534 - ROCK CREEK NEAR GREENWOOD, NEBR (LAT 40 57 55 LONG 096 29 52)

SEP., 1971											
30...	3.6	--	20	130	70	17	170	7.1	318	0	261

06803537 - CAMP CREEK NEAR GREENWOOD, NEBR. (LAT 40 56 20 LONG 096 28 57)

SEP., 1971											
14...	.80	--	10	190	56	17	44	4.7	328	0	269

06803550 - DEE CREEK AT GREENWOOD, NEBR. (LAT 40 56 58 LONG 096 27 20)

SEP., 1971											
14...	.52	--	10	170	64	17	43	4.1	359	0	294

06803558 - GREENWOOD CREEK NEAR GREENWOOD, NEBR. (LAT 40 59 08 LONG 096 25 04)

SEP., 1971											
14...	.22	--	20	420	81	19	41	6.6	384	0	315

06803563 - CALLAHAN CREEK NEAR GREENWOOD, NEBR. (LAT 40 59 59 LONG 096 24 13)

SEP., 1971											
30...	1.2	--	20	120	64	17	34	5.5	316	0	259

06805000 - SALT CREEK NEAR ASHLAND, NEBR (LAT 41 02 50 LONG 096 20 30)

SEP., 1971											
30...	90	--	20	760	84	25	970	14	328	0	269

DATE	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	NITRITE (N) (MG/L)	NITRATE PLUS NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	NITRATE (N) (MG/L)
------	---	---------------------------------	--	---	---	--	--------------------------	---	---	--------------------------

06803515 - STEVENS CREEK NEAR WALTON, NEBR. (LAT 40 48 47 LONG 096 33 31)

SEP., 1971										
10...	45	30	.8	.34	2.0	.81	--	1.2	.47	--

06803534 - ROCK CREEK NEAR GREENWOOD, NEBR (LAT 40 57 55 LONG 096 29 52)

SEP., 1971										
30...	110	150	.4	.42	1.2	.52	--	.69	.10	--

06803537 - CAMP CREEK NEAR GREENWOOD, NEBR. (LAT 40 56 20 LONG 096 28 57)

SEP., 1971										
14...	27	9.5	.4	.22	.90	.53	--	.37	.31	--

06803550 - DEE CREEK AT GREENWOOD, NEBR. (LAT 40 56 58 LONG 096 27 20)

SEP., 1971										
14...	25	3.0	.4	.09	1.5	.41	--	1.1	.32	--

06803558 - GREENWOOD CREEK NEAR GREENWOOD, NEBR. (LAT 40 59 08 LONG 096 25 04)

SEP., 1971										
14...	55	3.2	.4	.20	1.3	.51	--	.83	.31	--

06803563 - CALLAHAN CREEK NEAR GREENWOOD, NEBR. (LAT 40 59 59 LONG 096 24 13)

SEP., 1971										
30...	38	6.2	.4	.37	1.8	.55	--	1.2	.18	--

06805000 - SALT CREEK NEAR ASHLAND, NEBR (LAT 41 02 50 LONG 096 20 30)

SEP., 1971										
30...	360	1400	.9	.50	4.1	2.7	--	1.4	2.2	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED (RESI- BORON (B) (UG/L)	DIS- SOLVED (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED (TONS (TONS PER AC-FT)	DIS- SOLVED (TONS (TONS PER DAY)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
PLATTE RIVER BASIN--Continued										
06803515 - STEVENS CREEK NEAR WALTON, NEBR. (LAT 40 48 47 LONG 096 33 31)										
SEP., 1971 10...	.36	.26	--	452	--	.61	.22	474	88	462
06803534 - ROCK CREEK NEAR GREENWOOD, NEBR (LAT 40 57 55 LONG 096 29 52)										
SEP., 1971 30...	.37	.28	--	728	--	.99	7.08	876	200	840
06803537 - CAMP CREEK NEAR GREENWOOD, NEBR. (LAT 40 56 20 LONG 096 28 57)										
SEP., 1971 14...	.29	.20	--	362	--	.49	.78	462	116	368
06803550 - DEE CREEK AT GREENWOOD, NEBR. (LAT 40 56 58 LONG 096 27 20)										
SEP., 1971 14...	.19	.14	--	372	--	.51	.52	2400	108	374
06803558 - GREENWOOD CREEK NEAR GREENWOOD, NEBR. (LAT 40 59 08 LONG 096 25 04)										
SEP., 1971 14...	.27	.21	--	440	--	.60	.26	488	140	440
06803563 - CALLAHAN CREEK NEAR GREENWOOD, NEBR. (LAT 40 59 59 LONG 096 24 13)										
SEP., 1971 30...	.39	.35	--	358	--	.49	1.16	378	116	394
06805000 - SALT CREEK NEAR ASHLAND, NEBR (LAT 41 02 50 LONG 096 20 30)										
SEP., 1971 30...	3.9	3.5	--	3020	--	4.11	735	3440	800	3380
	VOL. NON- SETTLE- ABLE RESIDUE	HARD- NESS (CA,MG)	NON- CAR- BONATE HARD- NESS	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH	COLOR (PLAT- INUM- COBALT UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN)	METHY- LENE BLUE ACTIVE SUB- STANCE
DATE	(MG/L)	(MG/L)	(MG/L)			(UNITS)				(MG/L)
06803515 - STEVENS CREEK NEAR WALTON, NEBR. (LAT 40 48 47 LONG 096 33 31)										
SEP., 1971 10...	156	290	0	1.3	761	7.6	10	4.0	--	--
06803534 - ROCK CREEK NEAR GREENWOOD, NEBR (LAT 40 57 55 LONG 096 29 52)										
SEP., 1971 30...	288	240	0	4.7	1270	8.2	5	1.4	--	--
06803537 - CAMP CREEK NEAR GREENWOOD, NEBR. (LAT 40 56 20 LONG 096 28 57)										
SEP., 1971 14...	102	210	0	1.3	554	7.7	20	1.9	--	--
06803550 - DEE CREEK AT GREENWOOD, NEBR. (LAT 40 56 58 LONG 096 27 20)										
SEP., 1971 14...	126	230	0	1.2	594	7.8	10	1.3	--	--
06803558 - GREENWOOD CREEK NEAR GREENWOOD, NEBR. (LAT 40 59 08 LONG 096 25 04)										
SEP., 1971 14...	130	280	0	1.1	688	7.6	10	1.6	--	--
06803563 - CALLAHAN CREEK NEAR GREENWOOD, NEBR. (LAT 40 59 59 LONG 096 24 13)										
SEP., 1971 30...	154	230	0	1.0	553	7.5	20	1.4	--	--
06805000 - SALT CREEK NEAR ASHLAND, NEBR (LAT 41 02 50 LONG 096 20 30)										
SEP., 1971 30...	1780	310	44	24	5210	7.2	5	5.2	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILVEX (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	MALA- THION (UG/L)	DI- AZINON (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
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PLATTE RIVER BASIN--Continued

06803515 - STEVENS CREEK NEAR WALTON, NEBR. (LAT 40 48 47 LONG 096 33 31)												
SEP., 1971 10...	--	--	--	--	--	--	--	--	--	--	0	--
06803534 - ROCK CREEK NEAR GREENWOOD, NEBR (LAT 40 57 55 LONG 096 29 52)												
SEP., 1971 30...	--	--	--	--	--	--	--	--	--	--	0	--
06803537 - CAMP CREEK NEAR GREENWOOD, NEBR. (LAT 40 56 20 LONG 096 28 57)												
SEP., 1971 14...	--	--	--	--	--	--	--	--	--	--	0	--
06803550 - DEE CREEK AT GREENWOOD, NEBR. (LAT 40 56 58 LONG 096 27 20)												
SEP., 1971 14...	--	--	--	--	--	--	--	--	--	--	0	--
06803558 - GREENWOOD CREEK NEAR GREENWOOD, NEBR. (LAT 40 59 08 LONG 096 25 04)												
SEP., 1971 14...	--	--	--	--	--	--	--	--	--	--	0	--
06803563 - CALLAHAN CREEK NEAR GREENWOOD, NEBR. (LAT 40 59 59 LONG 096 24 13)												
SEP., 1971 30...	--	--	--	--	--	--	--	--	--	--	0	--
06805000 - SALT CREEK NEAR ASHLAND, NEBR (LAT 41 02 50 LONG 096 20 30)												
SEP., 1971 30...	--	--	--	--	--	--	--	--	--	--	0	--

FIELD DETERMINATIONS

DATE	DIS- CHARGE (CFS)	PH (UNITS)	TEMP- ERATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
06803515 - STEVENS CREEK NEAR WALTON, NEBR. (LAT 40 48 47 LONG 096 33 31)								
SEP., 1971 10...	.18	6.6	21.5	15	7.6	1900	10000	2700
06803534 - ROCK CREEK NEAR GREENWOOD, NEBR (LAT 40 57 55 LONG 096 29 52)								
SEP., 1971 30...	3.6	7.6	22.0	25	8.9	600	3100	1200
06803537 - CAMP CREEK NEAR GREENWOOD, NEBR. (LAT 40 56 20 LONG 096 28 57)								
SEP., 1971 14...	.80	7.2	18.0	30	4.7	1200	7200	2600
06803550 - DEE CREEK AT GREENWOOD, NEBR. (LAT 40 56 58 LONG 096 27 20)								
SEP., 1971 14...	.52	7.3	18.0	15	7.4	580	2900	880
06803558 - GREENWOOD CREEK NEAR GREENWOOD, NEBR. (LAT 40 59 08 LONG 096 25 04)								
SEP., 1971 14...	.22	7.4	16.5	15	7.7	590	11000	3900
06803563 - CALLAHAN CREEK NEAR GREENWOOD, NEBR. (LAT 40 59 59 LONG 096 24 13)								
SEP., 1971 30...	1.2	7.2	20.0	15	5.2	260	2700	680
06805000 - SALT CREEK NEAR ASHLAND, NEBR (LAT 41 02 50 LONG 096 20 30)								
SEP., 1971 30...	90	7.3	21.0	35	5.0	5300	53000	320

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INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
PLATTE RIVER BASIN								
06766247 - PLATTE R. AT GOTHENBURG, NEBR. (NORTH CHAN.) (LAT 40 54 31 LONG 100 09 23)								
MAY, 1971								
19...	1345	13.0	1110	243	728	--	--	--
27...	1420	15.5	1080	263	767	--	--	--
06766248 - PLATTE R. AT GOTHENBURG, NEBR. (MIDDLE CHAN.) (LAT 40 54 25 LONG 100 09 30)								
MAY, 1971								
19...	1430	13.0	2800	596	4510	--	--	--
27...	1445	15.5	3900	384	4040	--	--	--
06766249 - PLATTE R. AT GOTHENBURG, NEBR. (SOUTH CHAN.) (LAT 40 54 20 LONG 100 09 33)								
MAY, 1971								
19...	1530	12.0	3390	740	6770	--	--	--
27...	1330	15.0	5180	269	3760	--	--	--
06796000 - PLATTE RIVER AT NORTH BEND, NEBR (LAT 41 27 10 LONG 096 45 50)								
MAY, 1971								
25...	1530	15.5	10500	423	12000	--	--	--
JUNE								
07...	1040	23.0	15100	1460	59500	38	47	57
JULY								
07...	1325	30.5	5820	718	11300	--	--	--
06799000 - ELKHORN RIVER NR. NORFOLK, NEBR. (LAT 42 00 20 LONG 097 28 40)								
FEB., 1971								
20...	1110	.0	3400	4190	38500	17	19	22
JUNE								
10...	1620	20.0	7000	14900	282000	49	57	73
11...	1130	20.0	1970	5050	26900	46	61	79
30...	1415	25.5	782	9520	20100	50	65	85
06799450 - LOGAN CREEK AT PENDER, NEBR. (LAT 42 06 40 LONG 096 42 00)								
FEB., 1971								
20...	1315	1.0	2260	3330	20300	49	50	54
JUNE								
10...	1515	24.0	8080	19200	419000	36	46	64
06805500 - PLATTE R. NR. SOUTH BEND, NEBR. (LAT 41 01 30 LONG 096 17 50)								
FEB., 1971								
26...	1540	1.0	17700	1220	58300	22	29	33
MAY								
19...	1200	--	16300	2390	105000	10	12	18
JUNE								
04...	1120	23.0	12500	431	14500	--	--	--
07...	1455	25.0	24800	6240	418000	43	58	75
KANSAS RIVER BASIN								
06834000 - FRENCHMAN R. AT PALISADE, NEBR. (LAT 40 20 50 LONG 101 07 40)								
OCT., 1970								
27...	1215	7.0	36	69	6.7	--	--	--
NOV.								
24...	1150	3.0	18	57	2.8	--	--	--
DEC.								
21...	1330	.0	27	134	9.8	--	--	--
JAN., 1971								
18...	1210	.0	41	50	5.5	--	--	--
FEB.								
16...	1115	5.5	42	120	14	--	--	--
MAR.								
15...	1150	6.5	42	90	10	--	--	--
APR.								
12...	1120	13.5	39	72	7.6	--	--	--
MAY								
10...	0940	11.0	46	114	14	--	--	--
JUNE								
07...	1210	23.0	26	108	7.6	--	--	--
JULY								
06...	1330	25.5	229	924	571	14	19	32
21...	1245	23.5	347	1440	1350	8	8	15
AUG.								
02...	1345	24.0	285	1140	877	5	6	14
16...	1320	23.5	294	1000	794	4	7	9
SEP.								
01...	1215	23.0	287	998	773	--	--	--
27...	1240	15.5	40	58	6.3	--	--	--

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	SUS. SED. SIEVE DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.
DATE	% FINER THAN .062 MM	% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM	% FINER THAN 1.00 MM	% FINER THAN 2.00 MM

PLATTE RIVER BASIN--Continued

06766247 - PLATTE R. AT GOTHENBURG, NEBR. (NORTH CHAN.) (LAT 40 54 31 LONG 100 09 23)

MAY, 1971							
19...	--	--	--	--	--	--	--
27...	--	31	33	48	62	86	100

06766248 - PLATTE R. AT GOTHENBURG, NEBR. (MIDDLE CHAN.) (LAT 40 54 25 LONG 100 09 30)

MAY, 1971							
19...	--	18	20	30	47	84	100
27...	--	21	23	47	94	100	--

06766249 - PLATTE R. AT GOTHENBURG, NEBR. (SOUTH CHAN.) (LAT 40 54 20 LONG 100 09 33)

MAY, 1971							
19...	--	9	9	13	29	83	95
27...	--	18	18	27	58	87	100

06796000 - PLATTE RIVER AT NORTH BEND, NEBR (LAT 41 27 10 LONG 096 45 50)

MAY, 1971							
25...	--	24	41	73	99	100	--
JUNE 07...	--	69	73	84	95	100	--
JULY 07...	--	83	85	91	100	--	--

06799000 - ELKHORN RIVER NR. NORFOLK, NEBR. (LAT 42 00 20 LONG 097 28 40)

FEB., 1971							
20...	--	28	37	76	99	100	--
JUNE 10...	--	90	94	98	100	--	--
11...	--	88	93	98	100	--	--
30...	--	93	94	97	100	--	--

06799450 - LOGAN CREEK AT PENDER, NEBR. (LAT 42 06 40 LONG 096 42 00)

FEB., 1971							
20...	--	97	98	99	99	100	--
JUNE 10...	--	97	99	100	--	--	--

06805500 - PLATTE R. NR. SOUTH BEND, NEBR. (LAT 41 01 30 LONG 096 17 50)

FEB., 1971							
26...	--	46	53	90	100	--	--
MAY 19...	--	30	34	48	69	93	99
JUNE 04...	--	59	70	88	99	100	--
07...	--	90	92	96	99	100	--

KANSAS RIVER BASIN--Continued

06834000 - FRENCHMAN R. AT PALISADE, NEBR. (LAT 40 20 50 LONG 101 07 40)

OCT., 1970							
27...	--	39	54	83	100	--	--
NOV. 24...	--	--	--	--	--	--	--
DEC. 21...	--	59	63	72	100	--	--
JAN., 1971							
18...	69	--	--	--	--	--	--
FEB. 16...	--	62	71	83	98	100	--
MAR. 15...	--	67	77	91	100	--	--
APR. 12...	--	69	82	88	100	--	--
MAY 10...	--	88	97	100	--	--	--
JUNE 07...	78	--	--	--	--	--	--
JULY 06...	--	84	94	100	--	--	--
21...	--	74	93	98	100	--	--
AUG. 02...	--	72	91	97	100	--	--
16...	--	65	89	96	100	--	--
SEP. 01...	--	65	86	96	100	--	--
27...	69	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDE D SEDI- MENT (MG/L)	SUS- PENDE D SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
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KANSAS RIVER BASIN--Continued

06835000 - STINKING WATER C NR PALISADE NEBR (LAT 40 22' 10" LONG 101 06' 50")

JULY, 1971								
06...	1445	25.5	47	2700	343	26	36	54
21...	1430	23.0	25	738	50	--	--	--
AUG.								
03...	0900	19.5	22	543	32	--	--	--
17...	0945	20.5	22	812	48	--	--	--
30...	1610	25.5	18	368	18	--	--	--
SEP.								
27...	1000	14.0	31	936	78	8	10	18

06881200 - TURKEY CREEK NEAR WILBER, NEBR. (LAT 40 28' 48" LONG 097 00' 43")

MAR., 1971								
15...	1500	1.5	2080	914	5130	45	49	56
MAY								
11...	1600	14.0	2420	4000	26100	24	27	30
12...	1415	--	1510	1460	5950	73	82	92

PARTICLE SIZE OF BED MATERIAL, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	NUMBER OF SAM- PLING POINTS	DIS- CHARGE (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
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PLATTE RIVER BASIN

06766247 - PLATTE R. AT GOTHENBURG, NEBR. (NORTH CHAN.) (LAT 40 54' 31" LONG 100 09' 23")

MAY, 1971							
19...	1345	13.0	2	1110	--	0	5
27...	1420	15.5	4	1080	0	2	19

06766248 - PLATTE R. AT GOTHENBURG, NEBR. (MIDDLE CHAN.) (LAT 40 54' 25" LONG 100 09' 30")

MAY, 1971							
19...	1430	13.0	2	2800	--	0	1
27...	1445	15.5	4	3900	--	0	2

06766249 - PLATTE R. AT GOTHENBURG, NEBR. (SOUTH CHAN.) (LAT 40 54' 20" LONG 100 09' 33")

MAY, 1971							
19...	1530	12.0	5	3390	--	--	0
27...	1330	15.0	5	5180	--	0	1

06796000 - PLATTE RIVER AT NORTH BEND, NEBR (LAT 41 27' 10" LONG 096 45' 50")

MAY, 1971							
25...	1530	15.5	6	10500	--	0	12
JUNE							
07...	1040	23.0	7	15100	0	2	21
JULY							
07...	1325	30.5	7	5820	0	1	14

06799000 - ELKHORN RIVER NR. NORFOLK, NEBR. (LAT 42 00' 20" LONG 097 28' 40")

JUNE, 1971							
30...	1415	25.5	5	782	6	15	58

06799450 - LOGAN CREEK AT PENDER, NEBR. (LAT 42 06' 40" LONG 096 42' 00")

FEB., 1971							
20...	1315	1.0	5	2260	--	0	18
JUNE							
10...	1515	24.0	3	8080	2	4	21

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	SUS. SED. SIEVE DIAM. % FINER THAN	SUS. SED. FALL DIAM. % FINER THAN	SUS. SED. FALL DIAM. % FINER THAN	SUS. SED. FALL DIAM. % FINER THAN	SUS. SED. FALL DIAM. % FINER THAN	SUS. SED. FALL DIAM. % FINER THAN	SUS. SED. FALL DIAM. % FINER THAN
DATE	.062 MM	.062 MM	.125 MM	.250 MM	.500 MM	1.00 MM	2.00 MM

KANSAS RIVER BASIN--Continued

06835000 - STINKING WATER C NR PALISADE NEBR (LAT 40 22 10 LONG 101 06 50)

JULY, 1971

06...	--	92	98	100	--	--	--
21...	--	94	100	--	--	--	--
AUG.							
03...	--	91	99	100	--	--	--
17...	--	97	100	--	--	--	--
30...	--	97	100	--	--	--	--
SEP.							
27...	--	89	100	--	--	--	--

06881200 - TURKEY CREEK NEAR WILBER, NEBR. (LAT 40 28 48 LONG 097 00 43)

MAR., 1971

15...	--	65	66	66	87	100	--
MAY							
11...	--	62	62	62	77	94	99
12...	--	100	--	--	--	--	--

PARTICLE SIZE OF BED MATERIAL, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	BED MAT. FALL DIAM. % FINER THAN	BED MAT. FALL DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN
DATE	.500 MM	1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM

PLATTE RIVER BASIN--Continued

06766247 - PLATTE R. AT GOTHENBURG, NEBR. (NORTH CHAN.) (LAT 40 54 31 LONG 100 09 23)

MAY, 1971

19...	50	75	86	92	95	100	--
27...	48	66	78	88	96	100	--

06766248 - PLATTE R. AT GOTHENBURG, NEBR. (MIDDLE CHAN.) (LAT 40 54 25 LONG 100 09 30)

MAY, 1971

19...	20	68	91	98	100	--	--
27...	20	50	59	71	90	100	--

06766249 - PLATTE R. AT GOTHENBURG, NEBR. (SOUTH CHAN.) (LAT 40 54 20 LONG 100 09 33)

MAY, 1971

19...	10	42	77	94	99	100	--
27...	20	49	63	77	89	93	100

06796000 - PLATTE RIVER AT NORTH BEND, NEBR (LAT 41 27 10 LONG 096 45 50)

MAY, 1971

25...	56	83	93	98	100	--	--
JUNE							
07...	61	80	90	95	98	100	--
JULY							
07...	50	77	92	98	100	--	--

06799000 - ELKHORN RIVER NR. NORFOLK, NEBR. (LAT 42 00 20 LONG 097 28 40)

JUNE, 1971

30...	93	98	99	100	--	--	--
-------	----	----	----	-----	----	----	----

06799450 - LOGAN CREEK AT PENDER, NEBR. (LAT 42 06 40 LONG 096 42 00)

FEB., 1971

20...	92	99	100	--	--	--	--
JUNE							
10...	84	99	100	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

PARTICLE SIZE OF BED MATERIAL, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	NUMBER OF SAM- PLING POINTS	DIS- CHARGE (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
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PLATTE RIVER BASIN--Continued

06805500 - PLATTE R. NR. SOUTH BEND, NEBR. (LAT 41 01 30 LONG 096 17 50)

FEB., 1971							
26...	1540	1.0	7	17700	--	0	35
MAY							
19...	1200	--	10	16300	--	0	12
JUNE							
04...	1120	23.0	7	12500	--	0	13
07...	1455	25.0	9	24800	--	0	10

KANSAS RIVER BASIN

06834000 - FRENCHMAN R. AT PALISADE, NEBR. (LAT 40 20 50 LONG 101 07 40)

OCT., 1970							
27...	1215	7.0	10	36	0	1	8
NOV.							
24...	1150	3.0	9	18	0	1	10
DEC.							
21...	1330	.0	9	27	0	1	9
JAN., 1971							
18...	1210	.0	9	41	--	0	7
FEB.							
16...	1115	5.5	10	42	0	3	13
MAR.							
15...	1150	6.5	9	42	0	1	6
APR.							
12...	1120	13.5	9	39	--	0	9
MAY							
10...	0940	11.0	9	46	--	0	4
JUNE							
07...	1210	23.0	9	26	0	1	11
JULY							
06...	1330	25.5	15	229	0	3	33
21...	1245	23.5	15	347	0	3	28
AUG.							
02...	1345	24.0	15	285	0	2	19
16...	1320	23.5	16	294	1	3	18
SEP.							
01...	1215	23.0	18	287	2	6	20
27...	1240	15.5	8	40	--	0	5

06835000 - STINKING WATER C NR PALISADE NEBR (LAT 40 22 10 LONG 101 06 50)

JULY, 1971							
06...	1445	25.5	7	47	5	19	32
21...	1430	23.0	6	25	5	17	29
AUG.							
03...	0900	19.5	7	22	4	14	22
17...	0945	20.5	9	22	6	21	31
30...	1610	25.5	8	18	3	11	20
SEP.							
27...	1000	14.0	9	31	2	7	13

06881200 - TURKEY CREEK NEAR WILBER, NEBR. (LAT 40 28 48 LONG 097 00 43)

MAR., 1971							
15...	1500	1.5	5	2080	15	17	22
MAY							
11...	1600	14.0	1	2420	59	59	61

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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PARTICLE SIZE OF BED MATERIAL, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
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PLATTE RIVER BASIN--Continued

06805500 - PLATTE R. NR. SOUTH BEND, NEBR. (LAT 41 01 30 LONG 096 17 50)

FEB., 1971							
26...	81	94	98	99	100	--	--
MAY							
19...	55	80	90	96	99	100	--
JUNE							
04...	51	77	89	96	99	100	--
07...	46	78	92	97	100	--	--

KANSAS RIVER BASIN--Continued

06834000 - FRENCHMAN R. AT PALISADE, NEBR. (LAT 40 20 50 LONG 101 07 40)

OCT., 1970							
27...	39	68	85	96	100	--	--
NOV.							
24...	56	85	94	98	99	100	--
DEC.							
21...	47	77	90	97	100	--	--
JAN., 1971							
18...	52	86	96	99	100	--	--
FEB.							
16...	53	83	93	98	100	--	--
MAR.							
15...	45	77	92	97	99	100	--
APR.							
12...	52	85	96	99	100	--	--
MAY							
10...	35	76	87	98	100	--	--
JUNE							
07...	50	78	90	96	100	--	--
JULY							
06...	77	91	99	99	100	--	--
21...	65	89	96	99	100	--	--
AUG.							
02...	67	90	96	98	100	--	--
16...	51	80	90	95	98	100	--
SEP.							
01...	59	86	95	98	100	--	--
27...	33	59	93	99	100	--	--

06835000 - STINKING WATER C NR PALISADE NEBR (LAT 40 22 10 LONG 101 06 50)

JULY, 1971							
06...	65	84	98	100	--	--	--
21...	48	59	70	83	96	100	--
AUG.							
03...	37	48	60	77	93	100	--
17...	45	57	66	81	96	100	--
30...	40	55	64	78	95	100	--
SEP.							
27...	34	41	56	76	93	100	--

06881200 - TURKEY CREEK NEAR WILBER, NEBR. (LAT 40 28 48 LONG 097 00 43)

MAR., 1971							
15...	54	79	91	97	100	--	--
MAY							
11...	77	95	99	100	--	--	--

(WATER USE: H, DOMESTIC; I, IRRIGATION; P, PUBLIC SUPPLY; S, STOCK; T, INSTITUTION; U, UNUSED)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	WATER USE	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
Antelope County										
23N 6W28DC 1	41 55 59	098 00 52	01	U	225	70-11-03	44	70	140	55
27N 5W17AAA 1	42 19 15	097 54 44	01	U	195	70-11-04	45	30	340	63
Box Butte County										
25N 48W12CC 1	42 09 04	102 52 52	01	U	260	70-11-19	48	650	1300	60
26N 49W 6CC 1	42 15 05	103 05 17	01	U	259	70-11-18	19	370	830	39
Boyd County										
33N 9W 6AC 1	42 51 58	098 24 50	01	H	560	70-10-29	--	--	--	--
33N 9W14DD 1	42 49 47	098 19 54	01	H	42	70-11-05	--	--	--	--
33N 9W18CD 1	42 49 55	098 25 12	01	S	365	70-11-04	--	--	--	--
33N 9W35DA 1	42 47 57	098 26 58	01	H	77	70-11-05	--	--	--	--
33N 9W36DC 1	42 47 12	098 19 04	01	U	90	71-04-29	--	--	--	--
33N 10W14CB 1	42 50 00	098 28 01	01	H	31	71-04-29	--	--	--	--
33N 10W14CC 2	42 49 47	098 28 01	02	U	16	70-11-05	--	--	--	--
	42 49 47	098 28 01	02	U	16	71-04-29	--	--	--	--
33N 10W14CC 3	42 49 47	098 28 01	03	U	13	71-04-29	--	--	--	--
33N 10W15CB 1	42 50 00	098 29 12	01	P	10	70-10-29	--	--	--	--
33N 10W23AA 1	42 49 34	098 27 08	01	H	16	70-10-30	--	--	--	--
33N 10W24BA 1	42 49 34	098 26 32	01	H	10	70-11-04	--	--	--	--
33N 11W13DA 1	42 50 01	098 32 50	01	H	30	70-11-04	--	--	--	--
33N 11W14BB 1	42 50 27	098 34 54	01	U	12	70-11-04	--	--	--	--
33N 11W26AA 1	42 48 44	098 34 01	01	S	55	70-11-04	--	--	--	--
34N 9W29AA 1	42 53 54	098 23 24	01	H	132	70-11-04	--	--	--	--
34N 10W31BC 1	42 52 48	098 32 34	01	S	27	70-10-29	--	--	--	--
34N 11W17CC 1	42 54 58	098 38 26	01	H	60	70-10-28	--	--	--	--
35N 11W25BC 1	42 58 51	098 33 43	01	H	1110	70-10-29	--	--	--	--
35N 12W27DC 1	42 58 24	098 42 39	01	H	54	70-10-29	--	--	--	--
35N 13W25BB 1	42 59 00	098 47 56	01	H	30	70-10-28	--	--	--	--
35N 14W36CC 1	42 57 27	098 55 03	01	S	50	70-10-28	--	--	--	--
Brown County										
30N 21W19CC 1	42 33 07	099 49 45	01	U	52	70-11-05	45	200	42	31
Buffalo County										
9N 14W 1DC 1	40 46 18	098 50 44	01	U	38	70-10-02	36	12000	880	210
10N 16W 5DC 1	40 51 37	099 08 52	01	U	240	70-10-21	53	490	750	66
Cedar County										
31N 1E36BB 1	42 37 32	097 15 56	01	P	84	71-04-28	--	--	--	--
32N 1E25DC 1	42 42 59	097 15 21	01	H	17	71-04-28	--	--	--	--
32N 1W 1AA 1	42 47 11	097 22 10	01	H	50	71-04-28	--	--	--	--
Chase County										
7N 38W29CRB 1	40 32 35	101 39 55	01	U	230	70-11-12	57	20	14	44
Dawes County										
33N 48W 9AD 1	42 51 03	102 58 11	01	S	16	70-11-16	--	--	--	--
34N 48W 8CA 1	42 56 00	102 59 57	01	--	60	70-11-16	--	--	--	--
34N 50W32BR 1	42 53 00	103 14 32	01	S	24	70-11-16	--	--	--	--
34N 52W36CR 1	42 52 31	103 23 58	01	H	39	70-11-16	--	--	--	--
Dawson County										
10N 21W18DDD 1	40 52 50	099 44 55	01	U	120	70-10-20	56	50	750	95
Franklin County										
4N 14W23CC 1	40 17 35	098 52 27	01	U	265	70-12-01	25	2300	540	45
Hall County										
10N 9W11BD 1	40 51 03	098 18 42	01	P	151	71-01-27	--	--	--	--
	40 51 03	098 18 42	01	P	151	71-02-26	--	--	--	--
	40 51 03	098 18 42	01	P	151	71-03-23	17	0	27	71
	40 51 03	098 18 42	01	P	151	71-04-22	--	--	--	--
	40 51 03	098 18 42	01	P	151	71-05-19	33	0	30	66
	40 51 03	098 18 42	01	P	151	71-06-23	--	--	--	--
	40 51 03	098 18 42	01	P	151	71-07-21	--	20	0	--
	40 51 03	098 18 42	01	P	151	71-08-18	--	20	10	--
	40 51 03	098 18 42	01	P	151	71-09-15	19	20	10	59
11N 9W 3DC 1	40 56 47	098 19 37	01	H	60	71-01-28	--	--	--	--
	40 56 47	098 19 37	01	H	60	71-02-25	--	--	--	--

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LOCAL IDENT- T- FIER	DATE OF SAMPLE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
Antelope County										
23N 6W28DC 1	70-11-03	6.7	8.0	6.9	216	0	5.9	2.2	.3	.8
27N 5W17AAA 1	70-11-04	9.0	7.6	6.2	255	0	1.8	1.2	.3	1.0
Box Butte County										
25N 48W12CC 1	70-11-19	12	24	9.0	230	0	31	17	.9	1.9
26N 49W 6CC 1	70-11-18	7.2	14	6.8	140	0	31	5.2	2.0	.9
Boyd County										
33N 9W 6AC 1	70-10-29	--	--	--	--	--	1800	--	--	--
33N 9W14DD 1	70-11-05	--	229	--	327	0	1800	150	--	120
33N 9W18CD 1	70-11-04	--	--	--	587	0	1.6	430	--	--
33N 9W35DA 1	70-11-05	--	--	--	--	--	--	--	--	7.7
33N 9W36DC 1	71-04-29	--	--	--	--	--	--	--	--	18
33N 10W14CB 1	71-04-29	--	--	--	--	--	--	--	--	7.4
33N 10W14CC 2	70-11-05	--	92	.0	388	0	850	52	--	12
	71-04-29	--	--	--	--	--	--	--	--	9.5
33N 10W14CC 3	71-04-29	--	--	--	--	--	--	--	--	6.4
33N 10W15CB 1	70-10-29	--	--	--	--	--	1800	--	--	--
33N 10W23AA 1	70-10-30	--	--	--	--	--	1800	--	--	--
33N 10W24BA 1	70-11-04	--	56	--	349	0	1100	48	--	4.8
33N 11W13DA 1	70-11-04	--	--	--	--	--	--	--	--	66
33N 11W14BB 1	70-11-04	--	--	--	--	--	--	--	--	20
33N 11W26AA 1	70-11-04	--	--	--	--	--	660	--	--	7.5
34N 9W29AA 1	70-11-04	--	474	--	587	0	1.6	430	--	.2
34N 10W31BC 1	70-10-29	--	--	--	--	--	--	--	--	65
34N 11W17CC 1	70-10-28	--	--	--	--	--	--	--	--	13
35N 11W25BC 1	70-10-29	--	--	--	--	--	1800	--	--	--
35N 12W27DC 1	70-10-29	--	--	--	--	--	1800	--	--	--
35N 13W25BB 1	70-10-28	--	--	--	--	--	1800	--	--	--
35N 14W36CC 1	70-10-28	--	--	--	--	--	--	--	--	5.0
Brown County										
30N 21W19CC 1	70-11-05	5.1	9.8	5.8	92	0	18	4.6	.2	8.1
Buffalo County										
9N 14W 1DC 1	70-10-02	40	88	18	446	0	470	35	.2	.00
10N 16W 5DC 1	70-10-21	9.7	5.9	5.9	245	0	6.4	6.8	.3	1.0
Cedar County										
31N 1E36BB 1	71-04-28	--	--	--	--	--	--	--	--	1.9
32N 1E25DC 1	71-04-28	--	--	--	--	--	--	--	--	.5
32N 1W 1AA 1	71-04-28	--	--	--	--	--	--	--	--	.7
Chase County										
7N 38W29CBB 1	70-11-12	10	14	9.4	194	0	13	5.0	.8	1.6
Dawes County										
33N 48W 9AD 1	70-11-16	--	--	--	--	--	--	--	--	3.9
34N 48W 8CA 1	70-11-16	--	750	--	438	0	2200	44	--	1.7
34N 50W32BB 1	70-11-16	--	1310	--	505	0	4300	30	--	.00
34N 52W36CB 1	70-11-16	--	--	--	--	--	--	--	--	.9
Dawson County										
10N 21W18DDD 1	70-10-20	20	19	15	346	0	66	12	.3	.1
Franklin County										
4N 14W23CC 1	70-12-01	13	25	5.6	158	0	70	13	.2	.1
Hall County										
10N 9W11BD 1	71-01-27	--	--	--	205	0	--	23	--	.00
	71-02-26	--	--	--	--	--	--	22	--	.2
	71-03-23	13	55	5.7	194	0	170	19	--	.6
	71-04-22	--	--	--	--	--	--	18	--	.2
	71-05-19	11	46	6.4	192	0	140	16	--	.3
	71-06-23	--	--	--	--	--	--	18	--	--
	71-07-21	--	--	--	--	--	--	17	--	.5
	71-08-18	--	--	--	--	--	--	15	--	.1
	71-09-15	11	49	4.6	181	0	130	16	--	.1
11N 9W 3DC 1	71-01-28	--	--	--	96	0	--	19	--	6.7
	71-02-25	--	--	--	--	--	--	18	--	18

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

LOCAL IDENT- IFIER	DATE OF SAMPLE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)
Antelope County										
23N 6W28DC 1	70-11-03	--	10	231	239	160	0	.3	343	7.6
27N 5W17AAA 1	70-11-04	--	10	262	264	190	0	.2	388	7.6
Box Butte County										
25N 48W12CC 1	70-11-19	--	50	341	329	200	9	.7	472	7.7
26N 49W 6CC 1	70-11-18	--	40	194	264	130	12	.5	344	7.4
Boyd County										
33N 9W 6AC 1	70-10-29	--	--	--	--	--	--	--	2150	--
33N 9W14DD 1	70-11-05	--	--	--	--	2300	2000	--	3910	7.9
33N 9W18CD 1	70-11-04	--	--	--	--	--	--	--	1990	--
33N 9W35CA 1	70-11-05	--	--	--	--	--	--	--	848	--
33N 9W36DC 1	71-04-29	--	--	--	--	--	--	--	1270	--
33N 10W14CB 1	71-04-29	--	--	--	--	--	--	--	2800	--
33N 10W14CC 2	70-11-05	--	--	--	--	1100	810	--	2050	7.9
	71-04-29	--	--	--	--	--	--	--	1940	--
33N 10W14CC 3	71-04-29	--	--	--	--	--	--	--	699	--
33N 10W15CB 1	70-10-29	--	--	--	--	--	--	--	373	--
33N 10W23AA 1	70-10-30	--	--	--	--	--	--	--	2450	--
33N 10W24BA 1	70-11-04	--	--	--	--	1400	1100	--	2250	7.6
33N 11W13DA 1	70-11-04	--	--	--	--	--	--	--	1550	--
33N 11W14BB 1	70-11-04	--	--	--	--	--	--	--	1330	--
33N 11W26AA 1	70-11-04	--	--	--	--	--	--	--	637	--
34N 9W29AA 1	70-11-04	--	--	--	--	72	0	--	2030	8.2
34N 10W31BC 1	70-10-29	--	--	--	--	--	--	--	1310	--
34N 11W17CC 1	70-10-28	--	--	--	--	--	--	--	641	--
35N 11W25BC 1	70-10-29	--	--	--	--	--	--	--	1680	--
35N 12W27DC 1	70-10-29	--	--	--	--	--	--	--	323	--
35N 13W25BB 1	70-10-28	--	--	--	--	--	--	--	1890	--
35N 14W36CC 1	70-10-28	--	--	--	--	--	--	--	2320	--
Brown County										
30N 21W19CC 1	70-11-05	--	220	195	203	98	23	.4	246	7.4
Buffalo County										
9N 14W 1DC 1	70-10-02	--	60	1160	1130	680	320	1.5	1470	7.7
10N 16W 5DC 1	70-10-21	--	20	293	280	200	4	.2	416	7.9
Cedar County										
31N 1E36BB 1	71-04-28	--	--	--	--	--	--	--	518	--
32N 1E25DC 1	71-04-28	--	--	--	--	--	--	--	1690	--
32N 1W 1AA 1	71-04-28	--	--	--	--	--	--	--	1190	--
Chase County										
7N 38W29CBB 1	70-11-12	--	60	264	257	150	0	.5	339	7.6
Dawes County										
33N 48W 9AD 1	70-11-16	--	--	--	--	--	--	--	1210	--
34N 48W 8CA 1	70-11-16	--	--	--	--	1000	650	--	4400	7.8
34N 50W32BB 1	70-11-16	--	--	--	--	1900	1500	--	7010	7.9
34N 52W36CB 1	70-11-16	--	--	--	--	--	--	--	2960	--
Dawson County										
10N 21W18DDD 1	70-10-20	--	40	456	456	320	34	.5	651	7.8
Franklin County										
4N 14W23CC 1	70-12-01	--	40	326	278	160	36	.8	545	7.7
Hall County										
10N 9W11BD 1	71-01-27	--	--	--	--	--	--	--	747	7.7
	71-02-26	--	--	--	--	--	--	--	713	7.2
	71-03-23	--	80	--	--	230	69	1.6	677	7.4
	71-04-22	--	--	--	--	--	--	--	650	7.6
	71-05-19	--	50	--	--	210	52	1.4	595	7.4
	71-06-23	.28	--	--	--	--	--	--	630	7.2
	71-07-21	.13	--	--	--	--	--	--	642	7.2
	71-08-18	.17	--	--	--	--	--	--	608	7.4
	71-09-15	.14	70	408	379	190	44	1.5	588	7.4
11N 9W 3DC 1	71-01-28	--	--	--	--	--	--	--	490	7.3
	71-02-25	--	--	--	--	--	--	--	481	--

LOCAL IDENT- I- FIER	DATE OF SAMPLE	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	CYANIDE (CN) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)
Antelope County										
23N 6W28DC 1	70-11-03	1	0	--	--	.07	.05	0	0	0
27N 5W17AAA 1	70-11-04	1	0	--	--	.23	.09	0	0	0
Box Butte County										
25N 48W12CC 1	70-11-19	1	0	--	--	.47	.02	0	0	0
26N 49W 6CC 1	70-11-18	1	2800	--	--	.10	.02	0	0	0
Boyd County										
33N 9W 6AC 1	70-10-29	--	--	--	--	--	--	--	--	--
33N 9W14DD 1	70-11-05	--	--	--	--	--	--	--	--	--
33N 9W18CD 1	70-11-04	--	--	--	--	--	--	--	--	--
33N 9W35DA 1	70-11-05	--	--	--	--	--	--	--	--	--
33N 9W36DC 1	71-04-29	--	--	--	--	--	--	--	--	--
33N 10W14CB 1	71-04-29	--	--	--	--	--	--	--	--	--
33N 10W14CC 2	70-11-05	--	--	--	--	--	--	--	--	--
	71-04-29	--	--	--	--	--	--	--	--	--
33N 10W14CC 3	71-04-29	--	--	--	--	--	--	--	--	--
33N 10W15CB 1	70-10-29	--	--	--	--	--	--	--	--	--
33N 10W23AA 1	70-10-30	--	--	--	--	--	--	--	--	--
33N 10W24BA 1	70-11-04	--	--	--	--	--	--	--	--	--
33N 11W13DA 1	70-11-04	--	--	--	--	--	--	--	--	--
33N 11W14BB 1	70-11-04	--	--	--	--	--	--	--	--	--
33N 11W26AA 1	70-11-04	--	--	--	--	--	--	--	--	--
34N 9W29AA 1	70-11-04	--	--	--	--	--	--	--	--	--
34N 10W31BC 1	70-10-29	--	--	--	--	--	--	--	--	--
34N 11W17CC 1	70-10-28	--	--	--	--	--	--	--	--	--
35N 11W25BC 1	70-10-29	--	--	--	--	--	--	--	--	--
35N 12W27DC 1	70-10-29	--	--	--	--	--	--	--	--	--
35N 13W25BB 1	70-10-28	--	--	--	--	--	--	--	--	--
35N 14W36CC 1	70-10-28	--	--	--	--	--	--	--	--	--
Brown County										
30N 21W19CC 1	70-11-05	1	0	--	--	.19	.16	0	0	0
Buffalo County										
9N 14W 1DC 1	70-10-02	5	400	--	.10	.28	.04	0	0	0
10N 16W 5DC 1	70-10-21	1	0	--	.00	.15	.00	0	0	0
Cedar County										
31N 1E36BB 1	71-04-28	--	--	--	--	--	--	--	--	--
32N 1E25DC 1	71-04-28	--	--	--	--	--	--	--	--	--
32N 1W 1AA 1	71-04-28	--	--	--	--	--	--	--	--	--
Chase County										
7N 38W29CBB 1	70-11-12	1	0	--	--	.15	.15	10	0	0
Dawes County										
33N 48W 9AD 1	70-11-16	--	--	--	--	--	--	--	--	--
34N 48W 8CA 1	70-11-16	--	--	--	--	--	--	--	--	--
34N 50W32BB 1	70-11-16	--	--	--	--	--	--	--	--	--
34N 52W36CB 1	70-11-16	--	--	--	--	--	--	--	--	--
Dawson County										
10N 21W18DDC 1	70-10-20	1	0	--	.00	.10	.09	0	0	0
Franklin County										
4N 14W23CC 1	70-12-01	1	0	--	--	1.0	.00	0	0	0
Hall County										
10N 9W11BD 1	71-01-27	--	--	--	--	--	.08	10	--	--
	71-02-26	--	--	--	--	--	.20	0	--	--
	71-03-23	--	--	.00	.13	--	.06	0	0	--
	71-04-22	--	--	--	--	--	.04	0	--	--
	71-05-19	--	--	.00	.17	--	.09	0	0	--
	71-06-23	--	--	--	--	--	.10	1	--	--
	71-07-21	--	--	--	--	--	.10	--	--	--
	71-08-18	--	--	--	--	--	.12	--	--	--
	71-09-15	--	--	.00	.14	--	.10	4	300	--
11N 9W 3DC 1	71-01-28	--	--	--	--	--	.14	0	--	--
	71-02-25	--	--	--	--	--	.16	0	--	--

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED MOLY- BDENUM (MO) (UG/L)
Antelope County								
23N 6W28DC 1	70-11-03	0	0	0	0	10	.0	0
27N 5W17AAA 1	70-11-04	0	0	0	0	20	.0	0
Box Butte County								
25N 48W12CC 1	70-11-19	0	0	8	0	30	.0	0
26N 49W 6CC 1	70-11-18	0	0	17	0	30	.2	4
Boyd County								
33N 9W 6AC 1	70-10-29	--	--	--	--	--	--	--
33N 9W14DD 1	70-11-05	--	--	--	--	--	--	--
33N 9W18CD 1	70-11-04	--	--	--	--	--	--	--
33N 9W35DA 1	70-11-05	--	--	--	--	--	--	--
33N 9W36DC 1	71-04-29	--	--	--	--	--	--	--
33N 10W14CB 1	71-04-29	--	--	--	--	--	--	--
33N 10W14CC 2	70-11-05	--	--	--	--	--	--	--
	71-04-29	--	--	--	--	--	--	--
33N 10W14CC 3	71-04-29	--	--	--	--	--	--	--
33N 10W15CB 1	70-10-29	--	--	--	--	--	--	--
33N 10W23AA 1	70-10-30	--	--	--	--	--	--	--
33N 10W24BA 1	70-11-04	--	--	--	--	--	--	--
33N 11W13DA 1	70-11-04	--	--	--	--	--	--	--
33N 11W14BB 1	70-11-04	--	--	--	--	--	--	--
33N 11W26AA 1	70-11-04	--	--	--	--	--	--	--
34N 9W29AA 1	70-11-04	--	--	--	--	--	--	--
34N 10W318C 1	70-10-29	--	--	--	--	--	--	--
34N 11W17CC 1	70-10-28	--	--	--	--	--	--	--
35N 11W258C 1	70-10-29	--	--	--	--	--	--	--
35N 12W27DC 1	70-10-29	--	--	--	--	--	--	--
35N 13W258B 1	70-10-28	--	--	--	--	--	--	--
35N 14W36CC 1	70-10-28	--	--	--	--	--	--	--
Brown County								
30N 21W19CC 1	70-11-05	0	0	0	0	10	.0	2
Buffalo County								
9N 14W 1DC 1	70-10-02	0	0	30	0	50	.0	4
1CN 16W 5DC 1	70-10-21	0	0	17	0	20	.0	0
Cedar County								
31N 1E36BB 1	71-04-28	--	--	--	--	--	--	--
32N 1E25DC 1	71-04-28	--	--	--	--	--	--	--
32N 1W 1AA 1	71-04-28	--	--	--	--	--	--	--
Chase County								
7N 38W29CBB 1	70-11-12	0	0	0	0	20	.0	3
Dawes County								
33N 48W 9AD 1	70-11-16	--	--	--	--	--	--	--
34N 48W 8CA 1	70-11-16	--	--	--	--	--	--	--
34N 50W32BB 1	70-11-16	--	--	--	--	--	--	--
34N 52W36CB 1	70-11-16	--	--	--	--	--	--	--
Dawson County								
1CN 21W18DDD 1	70-10-20	0	0	17	0	30	.6	0
Franklin County								
4N 14W23CC 1	70-12-01	0	0	0	0	30	.3	0
Hall County								
1CN 9W11BD 1	71-01-27	--	--	20	--	--	--	--
	71-02-26	--	--	29	--	--	--	--
	71-03-23	0	--	12	0	--	.0	--
	71-04-22	--	--	72	--	--	--	--
	71-05-19	0	--	12	0	--	.0	--
	71-06-23	--	--	2	--	--	--	--
	71-07-21	--	--	1	--	--	--	--
	71-08-18	--	--	0	--	--	--	--
	71-09-15	0	--	0	0	--	1.1	--
11N 9W 3DC 1	71-01-28	--	--	140	--	--	--	--
	71-02-25	--	--	110	--	--	--	--

LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED ZINC A/ (ZN) (UG/L)
Antelope County						
23N 6W28DC 1	70-11-03	0	16	2	320	10
27N 5W17AAA 1	70-11-04	0	18	2	320	0
Box Butte County						
25N 48W12CC 1	70-11-19	0	19	2	460	3200
26N 49W 6CC 1	70-11-18	0	18	0	320	62000
Boyd County						
33N 9W 6AC 1	70-10-29	--	8	--	--	--
33N 9W14DD 1	70-11-05	--	100	--	--	--
33N 9W18CD 1	70-11-04	--	8	--	--	--
33N 9W35DA 1	70-11-05	--	24	--	--	--
33N 9W36DC 1	71-04-29	--	14	--	--	--
33N 10W14CB 1	71-04-29	--	480	--	--	--
33N 10W14CC 2	70-11-05	--	420	--	--	--
	71-04-29	--	160	--	--	--
33N 10W14CC 3	71-04-29	--	14	--	--	--
33N 10W15CB 1	70-10-29	--	24	--	--	--
33N 10W23AA 1	70-10-30	--	150	--	--	--
33N 10W24BA 1	70-11-04	--	40	--	--	--
33N 11W13DA 1	70-11-04	--	4	--	--	--
33N 11W14BB 1	70-11-04	--	12	--	--	--
33N 11W26AA 1	70-11-04	--	8	--	--	--
34N 9W29AA 1	70-11-04	--	4	--	--	--
34N 10W31BC 1	70-10-29	--	20	--	--	--
34N 11W17CC 1	70-10-28	--	16	--	--	--
35N 11W25BC 1	70-10-29	--	0	--	--	--
35N 12W27DC 1	70-10-29	--	16	--	--	--
35N 13W25BB 1	70-10-28	--	12	--	--	--
35N 14W36CC 1	70-10-28	--	24	--	--	--
Brown County						
30N 21W19CC 1	70-11-05	0	11	1	180	1100
Buffalo County						
9N 14W 1DC 1	70-10-02	0	0	0	380	1300
10N 16W 5DC 1	70-10-21	0	0	0	120	30
Cedar County						
31N 1E36BB 1	71-04-28	--	0	--	--	--
32N 1E25DC 1	71-04-28	--	4	--	--	--
32N 1W 1AA 1	71-04-28	--	12	--	--	--
Chase County						
7N 38W29CBB 1	70-11-12	0	14	5	520	10
Dawes County						
33N 48W 9AD 1	70-11-16	--	20	--	--	--
34N 48W 8CA 1	70-11-16	--	7	--	--	--
34N 50W32BB 1	70-11-16	--	10	--	--	--
34N 52W36CB 1	70-11-16	--	5	--	--	--
Dawson County						
10N 21W180DD 1	70-10-20	0	4	0	350	140
Franklin County						
4N 14W23CC 1	70-12-01	0	30	1	620	10
Hall County						
10N 9W11BD 1	71-01-27	--	--	--	--	--
	71-02-26	--	--	--	--	--
	71-03-23	--	0	--	520	20
	71-04-22	--	--	--	--	--
	71-05-19	--	0	--	380	10
	71-06-23	--	--	--	--	--
	71-07-21	--	--	--	--	--
	71-08-18	--	--	--	--	--
	71-09-15	--	40	--	470	30
11N 9W 3DC 1	71-01-28	--	--	--	--	--
	71-02-25	--	--	--	--	--

A Many zinc values influenced by corrosion of well casings or metals in distribution systems. May not be representative of water in the aquifer.

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA
(WATER USE: H, DOMESTIC; I, IRRIGATION; P, PUBLIC SUPPLY; S, STOCK; T, INSTITUTION; U, UNUSED)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	WATER USE	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
Hall County										
11N 9W 3DC 1	40 56 47	098 19 37	01	H	60	71-03-24	32	--	0	58
	40 56 47	098 19 37	01	H	60	71-04-23	--	--	--	--
	40 56 47	098 19 37	01	H	60	71-05-20	--	--	--	--
	40 56 47	098 19 37	01	H	60	71-06-24	--	--	--	--
	40 56 47	098 19 37	01	H	60	71-07-22	--	20	120	--
	40 56 47	098 19 37	01	H	60	71-08-19	--	10	0	--
	40 56 47	098 19 37	01	H	60	71-09-16	34	20	10	58
11N 9W 8CB 1	40 56 14	098 22 27	01	P	141	71-07-21	--	10	0	--
	40 56 14	098 22 27	01	P	141	71-08-18	--	10	10	--
	40 56 14	098 22 27	01	P	141	71-09-15	38	10	10	49
11N 9W 8DA 2	40 56 08	098 21 37	02	P	101	71-01-27	--	--	--	--
	40 56 08	098 21 37	02	P	101	71-02-25	--	--	--	--
	40 56 08	098 21 37	02	P	101	71-03-23	36	0	23	50
	40 56 08	098 21 37	02	P	101	71-04-22	--	--	--	--
	40 56 08	098 21 37	02	P	101	71-05-19	37	0	7	47
	40 56 08	098 21 37	02	P	101	71-06-23	--	--	--	--
	40 56 08	098 21 37	02	P	101	71-07-21	--	10	0	--
	40 56 08	098 21 37	02	P	101	71-08-18	--	10	10	--
	40 56 08	098 21 37	02	P	101	71-09-15	37	20	0	48
11N 9W10BD 1	40 56 28	098 19 57	01	P	95	71-07-21	--	10	12	--
	40 56 28	098 19 57	01	P	95	71-08-18	--	10	0	--
	40 56 28	098 19 57	01	P	95	71-09-15	40	20	10	56
11N 9W13CA 1	40 55 15	098 17 38	01	H	70	71-01-28	--	--	--	--
	40 55 15	098 17 38	01	H	70	71-02-25	--	--	--	--
	40 55 15	098 17 38	01	H	70	71-03-24	22	--	2300	77
	40 55 15	098 17 38	01	H	70	71-04-23	--	--	--	--
	40 55 15	098 17 38	01	H	70	71-05-20	--	--	--	--
	40 55 15	098 17 38	01	H	70	71-06-24	--	--	--	--
	40 55 15	098 17 38	01	H	70	71-07-22	--	400	1200	--
	40 55 15	098 17 38	01	H	70	71-08-19	--	400	1800	--
	40 55 15	098 17 38	01	H	70	71-09-15	27	480	1700	75
11N 9W28BB 1	40 53 57	098 21 20	01	P	84	71-01-27	--	--	--	--
	40 53 57	098 21 20	01	P	84	71-02-25	--	--	--	--
	40 53 57	098 21 20	01	P	84	71-03-23	29	0	8	78
	40 53 57	098 21 20	01	P	84	71-04-22	--	--	--	--
	40 53 57	098 21 20	01	P	84	71-05-19	30	0	10	78
	40 53 57	098 21 20	01	P	84	71-06-23	--	--	--	--
	40 53 57	098 21 20	01	P	84	71-07-21	--	10	32	--
	40 53 57	098 21 20	01	P	84	71-08-18	--	10	0	--
	40 53 57	098 21 20	01	P	84	71-09-15	30	10	0	79
11N 10W 2DA 1	40 57 00	098 23 57	01	T	60	71-01-28	--	--	--	--
	40 57 00	098 23 57	01	T	60	71-02-26	--	--	--	--
	40 57 00	098 23 57	01	T	60	71-03-24	35	--	0	42
	40 57 00	098 23 57	01	T	60	71-04-23	--	--	--	--
	40 57 00	098 23 57	01	T	60	71-05-20	--	--	--	--
	40 57 00	098 23 57	01	T	60	71-06-24	--	--	--	--
	40 57 00	098 23 57	01	T	60	71-07-22	--	10	12	--
	40 57 00	098 23 57	01	T	60	71-08-19	--	10	0	--
	40 57 00	098 23 57	01	T	60	71-09-16	36	10	20	37
11N 10W13CC 1	40 55 03	098 23 40	01	P	106	71-01-27	--	--	--	--
	40 55 03	098 23 40	01	P	106	71-02-25	--	--	--	--
	40 55 03	098 23 40	01	P	106	71-03-23	29	80	10	45
	40 55 03	098 23 40	01	P	106	71-04-22	--	--	--	--
	40 55 03	098 23 40	01	P	106	71-05-19	31	120	37	48
	40 55 03	098 23 40	01	P	106	71-06-23	--	--	--	--
	40 55 03	098 23 40	01	P	106	71-07-21	--	110	11	--
	40 55 03	098 23 40	01	P	106	71-08-18	--	100	0	--
	40 55 03	098 23 40	01	P	106	71-09-15	31	100	20	50
12N 9W35RC 1	40 58 05	098 19 13	01	P	--	71-07-22	--	100	65	--
	40 58 05	098 19 13	01	P	--	71-08-19	--	80	70	--
	40 58 05	098 19 13	01	P	--	71-09-16	30	70	80	62
Harlan County										
2N 18W 9BCC 1	40 09 20	099 21 55	01	U	170	70-10-29	57	40	15	70
4N 18W15AD 1	40 18 57	099 19 52	01	U	315	70-10-29	53	1200	380	77
Holt County										
30N 10W32DAA 1	42 31 48	098 30 06	01	U	85	70-11-04	27	140	160	16
31N 11W 1DC 2	42 41 05	098 32 39	02	H	37	70-11-05	--	--	--	--
31N 14W27DDC 1	42 37 30	098 56 00	01	U	72	70-11-05	34	10	13	47
32N 10W12CB 1	42 45 41	098 26 22	01	U	18	70-11-05	--	--	--	--
33N 15W 8DA 1	42 50 40	099 05 54	01	H	40	70-10-28	--	--	--	--
Keya Paha County										
33N 17W32AD 1	42 47 16	099 20 02	01	H	80	70-10-27	--	--	--	--
34N 17W 9CC 1	42 55 36	099 19 45	01	H	70	70-10-27	--	--	--	--
34N 18W 3BA 1	42 57 11	099 25 33	01	S	70	70-10-27	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

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LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
Hall County										
11N 9W 3DC 1	71-03-24	10	17	8.5	95	0	72	19	--	18
	71-04-23	--	--	--	--	--	--	20	--	17
	71-05-20	--	--	--	--	--	--	19	--	19
	71-06-24	--	--	--	--	--	--	24	--	--
	71-07-22	--	--	--	--	--	--	22	--	--
	71-08-19	--	--	--	--	--	--	19	--	--
	71-09-16	9.7	16	7.9	101	0	68	20	--	16
11N 9W 8CB 1	71-07-21	--	--	--	--	--	--	3.5	--	--
	71-08-18	--	--	--	--	--	--	3.3	--	--
	71-09-15	7.6	14	7.1	169	0	31	4.6	--	5.4
11N 9W 8DA 2	71-01-27	--	--	--	155	0	--	4.0	--	5.8
	71-02-25	--	--	--	--	--	--	6.8	--	7.4
	71-03-23	7.5	11	7.9	155	0	27	5.2	--	6.3
	71-04-22	--	--	--	--	--	--	5.0	--	5.5
	71-05-19	7.0	12	9.0	155	0	26	4.4	--	5.6
	71-06-23	--	--	--	--	--	--	5.2	--	--
	71-07-21	--	--	--	--	--	--	4.5	--	--
	71-08-18	--	--	--	--	--	--	4.3	--	--
	71-09-15	7.1	12	7.4	154	0	30	5.6	--	6.2
11N 9W10BD 1	71-07-21	--	--	--	--	--	--	11	--	--
	71-08-18	--	--	--	--	--	--	9.3	--	--
	71-09-15	8.8	15	7.1	161	0	53	9.4	--	5.9
11N 9W13CA 1	71-01-28	--	--	--	244	0	--	15	--	.00
	71-02-25	--	--	--	--	--	13	--	--	.00
	71-03-24	17	24	7.6	232	0	110	13	--	.00
	71-04-23	--	--	--	--	--	--	12	--	.00
	71-05-20	--	--	--	--	--	--	13	--	.00
	71-06-24	--	--	--	--	--	--	13	--	--
	71-07-22	--	--	--	--	--	--	12	--	--
	71-08-19	--	--	--	--	--	--	11	--	--
	71-09-15	17	22	7.6	242	0	110	13	--	.00
11N 9W28BB 1	71-01-27	--	--	--	208	0	--	9.8	--	6.6
	71-02-25	--	--	--	--	--	--	10	--	9.1
	71-03-23	15	26	11	207	0	110	9.6	--	7.2
	71-04-22	--	--	--	--	--	--	9.2	--	6.7
	71-05-19	16	25	9.4	202	0	120	9.8	--	7.4
	71-06-23	--	--	--	--	--	--	10	--	--
	71-07-21	--	--	--	--	--	--	9.3	--	--
	71-08-18	--	--	--	--	--	--	9.1	--	--
	71-09-15	16	26	10	215	0	120	12	--	6.7
11N 10W 2DA 1	71-01-28	--	--	--	108	0	--	6.6	--	8.2
	71-02-26	--	--	--	--	--	--	5.2	--	9.4
	71-03-24	6.0	8.2	6.5	110	0	21	5.4	--	9.1
	71-04-23	--	--	--	--	--	--	5.5	--	7.9
	71-05-20	--	--	--	--	--	--	6.6	--	7.8
	71-06-24	--	--	--	--	--	--	6.0	--	--
	71-07-22	--	--	--	--	--	--	5.2	--	--
	71-08-19	--	--	--	--	--	--	3.8	--	--
	71-09-16	5.8	7.5	6.1	117	0	22	5.8	--	7.0
11N 10W13CC 1	71-01-27	--	--	--	156	0	--	6.8	--	4.2
	71-02-25	--	--	--	--	--	--	6.4	--	6.3
	71-03-23	7.2	11	8.9	158	0	23	7.2	--	5.6
	71-04-22	--	--	--	--	--	--	6.9	--	4.8
	71-05-19	7.5	11	8.0	161	0	22	7.8	--	4.3
	71-06-23	--	--	--	--	--	--	7.7	--	--
	71-07-21	--	--	--	--	--	--	7.1	--	--
	71-08-18	--	--	--	--	--	--	7.9	--	--
	71-09-15	7.6	11	8.7	176	0	23	11	--	3.5
12N 9W35BC 1	71-07-22	--	--	--	--	--	--	8.6	--	--
	71-08-19	--	--	--	--	--	--	7.6	--	--
	71-09-16	9.1	20	9.5	222	0	49	9.4	--	2.7
Harlan County										
2N 18W 9BCC 1	70-10-29	14	9.6	9.1	283	0	14	5.0	.3	3.4
4N 18W15AD 1	70-10-29	15	12	9.6	303	0	27	5.0	.2	3.5
Holt County										
30N 10W32DAA 1	70-11-04	2.6	7.6	2.8	57	0	6.2	1.8	.0	3.8
31N 11W 1DC 2	70-11-05	--	--	--	--	--	--	--	--	6.7
31N 14W27DDD 1	70-11-05	7.7	9.7	5.1	76	0	18	11	.1	21
32N 10W12CB 1	70-11-05	--	--	--	--	--	--	--	--	1.9
33N 15W 8DA 1	70-10-28	--	43	--	348	0	400	8.0	--	.3
Keya Paha County										
33N 17W32AD 1	70-10-27	--	--	--	--	--	--	--	--	1.9
34N 17W 9CC 1	70-10-27	--	69	--	294	0	920	4.4	--	--
34N 18W 3BA 1	70-10-27	--	292	--	470	0	2500	13	--	.8

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

LOCAL IDENT- I- FIER	DATE OF SAMPLE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)
Hall County										
11N 9W 3DC 1	71-03-24	--	140	--	--	190	110	.5	506	7.2
	71-04-23	--	--	--	--	--	--	--	497	--
	71-05-20	--	--	--	--	--	--	--	510	7.2
	71-06-24	20	--	--	--	--	--	--	567	--
	71-07-22	16	--	--	--	--	--	--	529	--
	71-08-19	15	--	--	--	--	--	--	286	6.9
	71-09-16	16	80	378	336	180	100	.5	491	6.6
11N 9W 8CB 1	71-07-21	5.0	--	--	--	--	--	--	373	--
	71-08-18	4.9	--	--	--	--	--	--	368	7.0
	71-09-15	5.4	10	280	259	150	15	.5	392	6.8
11N 9W 8CA 2	71-01-27	--	--	--	--	--	--	--	363	7.4
	71-02-25	--	--	--	--	--	--	--	346	--
	71-03-23	--	50	--	--	160	28	.4	369	7.4
	71-04-22	--	--	--	--	--	--	--	352	--
	71-05-19	--	20	--	--	150	19	.4	361	7.7
	71-06-23	5.7	--	--	--	--	--	--	364	--
	71-07-21	6.2	--	--	--	--	--	--	357	--
	71-08-18	5.7	--	--	--	--	--	--	352	7.0
	71-09-15	6.2	30	286	251	150	23	.4	361	6.8
11N 9W10BD 1	71-07-21	11	--	--	--	--	--	--	473	--
	71-08-18	6.3	--	--	--	--	--	--	476	7.1
	71-09-15	5.9	50	338	295	180	44	.5	437	7.0
11N 9W13CA 1	71-01-28	--	--	--	--	--	--	--	603	7.6
	71-02-25	--	--	--	--	--	--	--	590	--
	71-03-24	--	60	--	--	260	72	.6	606	7.8
	71-04-23	--	--	--	--	--	--	--	587	--
	71-05-20	--	--	--	--	--	--	--	609	7.9
	71-06-24	.94	--	--	--	--	--	--	607	--
	71-07-22	.61	--	--	--	--	--	--	595	--
	71-08-19	.64	--	--	--	--	--	--	581	7.3
11N 9W28BB 1	71-09-15	.04	30	432	395	260	59	.6	606	7.2
	71-01-27	--	--	--	--	--	--	--	614	7.4
	71-02-25	--	--	--	--	--	--	--	600	--
	71-03-23	--	90	--	--	260	86	.7	617	7.4
	71-04-22	--	--	--	--	--	--	--	611	--
	71-05-19	--	60	--	--	260	94	.7	633	7.3
	71-06-23	6.3	--	--	--	--	--	--	621	--
	71-07-21	6.1	--	--	--	--	--	--	618	--
	71-08-18	6.0	--	--	--	--	--	--	607	7.0
	71-09-15	6.7	80	434	429	260	87	.7	642	6.8
11N 10W 2DA 1	71-01-28	--	--	--	--	--	--	--	291	7.0
	71-02-26	--	--	--	--	--	--	--	286	--
	71-03-24	--	40	--	--	130	39	.3	295	7.2
	71-04-23	--	--	--	--	--	--	--	286	--
	71-05-20	--	--	--	--	--	--	--	301	7.1
	71-06-24	8.5	--	--	--	--	--	--	288	--
	71-07-22	6.9	--	--	--	--	--	--	288	--
	71-08-19	7.1	--	--	--	--	--	--	281	--
11N 10W13CC 1	71-09-16	7.0	10	252	209	120	20	.3	296	6.4
	71-01-27	--	--	--	--	--	--	--	343	7.6
	71-02-25	--	--	--	--	--	--	--	341	--
	71-03-23	--	40	--	--	140	13	.4	359	7.5
	71-04-22	--	--	--	--	--	--	--	356	--
	71-05-19	--	10	--	--	150	19	.4	352	7.5
	71-06-23	4.8	--	--	--	--	--	--	356	--
	71-07-21	3.8	--	--	--	--	--	--	348	--
	71-08-18	3.4	--	--	--	--	--	--	355	7.1
	71-09-15	3.5	20	272	245	160	12	.4	378	6.8
12N 9W35BC 1	71-07-22	2.3	--	--	--	--	--	--	464	--
	71-08-19	2.8	--	--	--	--	--	--	456	7.1
	71-09-16	2.7	30	330	311	190	10	.6	480	6.9
Harlan County										
2N 18W 9BCC 1	70-10-29	--	40	337	335	230	0	.3	478	8.0
4N 18W15AD 1	70-10-29	--	40	367	364	250	3	.3	534	7.8
Holt County										
30N 10W32DAA 1	70-11-04	--	10	121	110	50	4	.5	136	7.4
31N 11W 1DC 2	70-11-05	--	--	--	--	--	--	--	280	--
31N 14W27DDD 1	70-11-05	--	250	299	264	150	87	.3	351	7.4
32N 10W12CB 1	70-11-05	--	--	--	--	--	--	--	938	--
33N 15W 8DA 1	70-10-28	--	--	--	--	620	330	--	1170	7.7
Keya Paha County										
33N 17W32AD 1	70-10-27	--	--	--	--	--	--	--	1660	--
34N 17W 9CC 1	70-10-27	--	--	--	--	1000	810	--	1850	8.0
34N 18W 3BA 1	70-10-27	--	--	--	--	2400	2000	--	3920	7.7

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LOCAL IDENT- I- FIER	DATE OF SAMPLE	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	CYANIDE (CN) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)
Hall County										
11N 9W 3DC 1	71-03-24	--	--	--	.06	--	.07	0	400	--
	71-04-23	--	--	--	--	--	.08	0	--	--
	71-05-20	--	--	--	--	--	.11	0	--	--
	71-06-24	--	--	--	--	--	.12	0	--	--
	71-07-22	--	--	--	--	--	.15	--	--	--
	71-08-19	--	--	--	--	--	.16	--	--	--
11N 9W 8CB 1	71-09-16	--	--	.00	.35	--	.16	0	400	--
	71-07-21	--	--	--	--	--	.20	--	--	--
	71-08-18	--	--	--	--	--	.25	--	--	--
	71-09-15	--	--	.00	.06	--	.28	5	300	--
11N 9W 8DA 2	71-01-27	--	--	--	--	--	.19	10	--	--
	71-02-25	--	--	--	--	--	.26	0	--	--
	71-03-23	--	--	.00	.00	--	.12	0	0	--
	71-04-22	--	--	--	--	--	.14	10	--	--
	71-05-19	--	--	.00	.00	--	.16	0	0	--
	71-06-23	--	--	--	--	--	.20	0	--	--
	71-07-21	--	--	--	--	--	.20	--	--	--
	71-08-18	--	--	--	--	--	.20	--	--	--
11N 9W10BD 1	71-09-15	--	--	.00	.19	--	.21	0	300	--
	71-07-21	--	--	--	--	--	.15	--	--	--
	71-08-18	--	--	--	--	--	.20	--	--	--
11N 9W13CA 1	71-09-15	--	--	.00	.53	--	.19	0	300	--
	71-01-28	--	--	--	--	--	.05	0	--	--
	71-02-25	--	--	--	--	--	.03	0	--	--
	71-03-24	--	--	--	.23	--	.02	0	0	--
	71-04-23	--	--	--	--	--	.05	10	--	--
	71-05-20	--	--	--	--	--	.07	0	--	--
	71-06-24	--	--	--	--	--	.05	0	--	--
	71-07-22	--	--	--	--	--	.05	--	--	--
	71-08-19	--	--	--	--	--	.07	--	--	--
	71-09-15	--	--	.00	.16	--	.09	0	200	--
11N 9W28BB 1	71-01-27	--	--	--	--	--	.09	10	--	--
	71-02-25	--	--	--	--	--	.10	0	--	--
	71-03-23	--	--	.00	.33	--	.09	0	0	--
	71-04-22	--	--	--	--	--	.06	10	--	--
	71-05-19	--	--	.00	.27	--	.09	10	0	--
	71-06-23	--	--	--	--	--	.10	0	--	--
	71-07-21	--	--	--	--	--	.10	--	--	--
	71-08-18	--	--	--	--	--	.15	--	--	--
	71-09-15	--	--	.00	.31	--	.14	0	200	--
11N 10W 2DA 1	71-01-28	--	--	--	--	--	.17	10	--	--
	71-02-26	--	--	--	--	--	.16	0	--	--
	71-03-24	--	--	--	.13	--	.22	0	0	--
	71-04-23	--	--	--	--	--	.11	10	--	--
	71-05-20	--	--	--	--	--	.21	0	--	--
	71-06-24	--	--	--	--	--	.20	10	--	--
	71-07-22	--	--	--	--	--	.20	--	--	--
	71-08-19	--	--	--	--	--	.22	--	--	--
11N 10W13CC 1	71-09-16	--	--	.00	.22	--	.22	0	200	--
	71-01-27	--	--	--	--	--	.12	10	--	--
	71-02-25	--	--	--	--	--	.14	0	--	--
	71-03-23	--	--	.00	.06	--	.14	0	0	--
	71-04-22	--	--	--	--	--	.09	0	--	--
	71-05-19	--	--	.00	.17	--	.14	0	0	--
	71-06-23	--	--	--	--	--	.15	3	--	--
	71-07-21	--	--	--	--	--	.15	--	--	--
	71-08-18	--	--	--	--	--	.20	--	--	--
12N 9W35BC 1	71-09-15	--	--	.00	.39	--	.18	0	400	--
	71-07-22	--	--	--	--	--	.10	--	--	--
	71-08-19	--	--	--	--	--	.14	--	--	--
	71-09-16	--	--	.00	.18	--	.14	0	300	--
Harlan County										
2N 18W 98CC 1	70-10-29	1	0	--	.00	.09	.08	0	0	0
4N 18W15AD 1	70-10-29	2	0	--	.00	.09	.01	0	0	0
Holt County										
30N 10W32DAA 1	70-11-04	2	0	--	--	.57	.02	0	0	0
31N 11W 10C 2	70-11-05	--	--	--	--	--	--	--	--	--
31N 14W27DDD 1	70-11-05	1	0	--	--	.16	.12	0	0	0
32N 10W12CB 1	70-11-05	--	--	--	--	--	--	--	--	--
33N 15W 8DA 1	70-10-28	--	--	--	--	--	--	--	--	--
Keya Paha County										
33N 17W32AD 1	70-10-27	--	--	--	--	--	--	--	--	--
34N 17W 9CC 1	70-10-27	--	--	--	--	--	--	--	--	--
34N 18W 3BA 1	70-10-27	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED MOLY- BDENUM (MO) (UG/L)
Hall County								
11N 9W 3DC 1	71-03-24	0	--	120	--	--	.0	--
	71-04-23	--	--	92	--	--	--	--
	71-05-20	--	--	130	--	--	--	--
	71-06-24	--	--	67	--	--	--	--
	71-07-22	--	--	30	--	--	--	--
	71-08-19	--	--	66	--	--	--	--
	71-09-16	0	--	78	--	--	.1	--
11N 9W 8CB 1	71-07-21	--	--	0	--	--	--	--
	71-08-18	--	--	0	--	--	--	--
	71-09-15	0	--	0	0	--	.1	--
11N 9W 8DA 2	71-01-27	--	--	30	--	--	--	--
	71-02-25	--	--	17	--	--	--	--
	71-03-23	0	--	8	0	--	.0	--
	71-04-22	--	--	66	--	--	--	--
	71-05-19	0	--	10	0	--	.0	--
	71-06-23	--	--	20	--	--	--	--
	71-07-21	--	--	0	--	--	--	--
	71-08-18	--	--	0	--	--	--	--
	71-09-15	0	--	0	0	--	.2	--
11N 9W10BD 1	71-07-21	--	--	1	--	--	--	--
	71-08-18	--	--	3	--	--	--	--
11N 9W13CA 1	71-09-15	0	--	4	0	--	.6	--
	71-01-28	--	--	67	--	--	--	--
	71-02-25	--	--	18	--	--	--	--
	71-03-24	0	--	4	--	--	.0	--
	71-04-23	--	--	38	--	--	--	--
	71-05-20	--	--	45	--	--	--	--
	71-06-24	--	--	0	--	--	--	--
	71-07-22	--	--	15	--	--	--	--
	71-08-19	--	--	1	--	--	--	--
11N 9W28BB 1	71-09-15	0	--	6	--	--	.2	--
	71-01-27	--	--	0	--	--	--	--
	71-02-25	--	--	20	--	--	--	--
	71-03-23	0	--	0	0	--	.0	--
	71-04-22	--	--	56	--	--	--	--
	71-05-19	0	--	12	0	--	.0	--
	71-06-23	--	--	3	--	--	--	--
	71-07-21	--	--	2	--	--	--	--
	71-08-18	--	--	2	--	--	--	--
	71-09-15	0	--	1	0	--	.1	--
11N 10W 2DA 1	71-01-28	--	--	42	--	--	--	--
	71-02-26	--	--	33	--	--	--	--
	71-03-24	0	--	4	--	--	.0	--
	71-04-23	--	--	70	--	--	--	--
	71-05-20	--	--	75	--	--	--	--
	71-06-24	--	--	3	--	--	--	--
	71-07-22	--	--	4	--	--	--	--
	71-08-19	--	--	3	--	--	--	--
	71-09-16	0	--	4	--	--	.2	--
11N 10W13CC 1	71-01-27	--	--	28	--	--	--	--
	71-02-25	--	--	17	--	--	--	--
	71-03-23	0	--	0	0	--	.0	--
	71-04-22	--	--	110	--	--	--	--
	71-05-19	0	--	55	0	--	.0	--
	71-06-23	--	--	1	--	--	--	--
	71-07-21	--	--	2	--	--	--	--
	71-08-18	--	--	1	--	--	--	--
	71-09-15	0	--	2	0	--	.1	--
12N 9W35BC 1	71-07-22	--	--	2	--	--	--	--
	71-08-19	--	--	7	--	--	--	--
	71-09-16	0	--	3	--	--	.1	--
Harlan County								
2N 18W 9RCC 1	70-10-29	0	0	17	0	20	.0	3
4N 18W15AD 1	70-10-29	0	0	17	0	20	.0	2
Holt County								
30N 10W32DAA 1	70-11-04	0	0	12	0	0	.1	1
31N 11W 1DC 2	70-11-05	--	--	--	--	--	--	--
31N 14W27DDD 1	70-11-05	0	0	13	0	10	.0	0
32N 10W12CB 1	70-11-05	--	--	--	--	--	--	--
33N 15W 8DA 1	70-10-28	--	--	--	--	--	--	--
Keya Paha County								
33N 17W32AD 1	70-10-27	--	--	--	--	--	--	--
34N 17W 9CC 1	70-10-27	--	--	--	--	--	--	--
34N 18W 3BA 1	70-10-27	--	--	--	--	--	--	--

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED ZINC A/ (ZN) (UG/L)
Hall County						
11N 9W 30C 1	71-03-24	--	--	--	400	--
	71-04-23	--	--	--	--	--
	71-05-20	--	--	--	--	--
	71-06-24	--	--	--	--	--
	71-07-22	--	--	--	--	--
	71-08-19	--	--	--	--	--
11N 9W 8CB 1	71-09-16	--	--	--	390	450
	71-07-21	--	--	--	--	--
	71-08-18	--	--	--	--	--
	71-09-15	--	6	--	310	50
11N 9W 8DA 2	71-01-27	--	--	--	--	--
	71-02-25	--	--	--	--	--
	71-03-23	--	0	--	310	10
	71-04-22	--	--	--	--	--
	71-05-19	--	0	--	300	0
	71-06-23	--	--	--	--	--
	71-07-21	--	--	--	--	--
	71-08-18	--	--	--	--	--
11N 9W10BD 1	71-09-15	--	10	--	300	20
	71-07-21	--	--	--	--	--
	71-08-18	--	--	--	--	--
	71-09-15	--	0	--	350	40
11N 9W13CA 1	71-01-28	--	--	--	--	--
	71-02-25	--	--	--	--	--
	71-03-24	--	--	--	560	--
	71-04-23	--	--	--	--	--
	71-05-20	--	--	--	--	--
	71-06-24	--	--	--	--	--
	71-07-22	--	--	--	--	--
	71-08-19	--	--	--	--	--
11N 9W28BB 1	71-09-15	--	--	--	650	30
	71-01-27	--	--	--	--	--
	71-02-25	--	--	--	--	--
	71-03-23	--	0	--	500	30
	71-04-22	--	--	--	--	--
	71-05-19	--	0	--	480	20
	71-06-23	--	--	--	--	--
	71-07-21	--	--	--	--	--
	71-08-18	--	--	--	--	--
	71-09-15	--	10	--	630	40
11N 10W 2DA 1	71-01-28	--	--	--	--	--
	71-02-26	--	--	--	--	--
	71-03-24	--	--	--	220	--
	71-04-23	--	--	--	--	--
	71-05-20	--	--	--	--	--
	71-06-24	--	--	--	--	--
	71-07-22	--	--	--	--	--
	71-08-19	--	--	--	--	--
11N 10W13CC 1	71-09-16	--	--	--	230	20
	71-01-27	--	--	--	--	--
	71-02-25	--	--	--	--	--
	71-03-23	--	0	--	360	10
	71-04-22	--	--	--	--	--
	71-05-19	--	0	--	260	20
	71-06-23	--	--	--	--	--
	71-07-21	--	--	--	--	--
	71-08-18	--	--	--	--	--
12N 9W35BC 1	71-09-15	--	4	--	340	90
	71-07-22	--	--	--	--	--
	71-08-19	--	--	--	--	--
	71-09-16	--	--	--	440	50
Harlan County						
2N 18W 9RCC 1	70-10-29	0	4	0	220	20
4N 18W15AD 1	70-10-29	C	0	0	280	30
Holt County						
30N 1Cw32DAA 1	70-11-04	0	22	2	130	10
31N 11W 10C 2	70-11-05	--	12	--	--	--
31N 14W27CDD 1	70-11-05	0	10	0	390	600
32N 1Cw12CB 1	70-11-05	--	12	--	--	--
33N 15W 8DA 1	70-10-28	--	8	--	--	--
Keya Paha County						
33N 17W32AD 1	70-10-27	--	16	--	--	--
34N 17W 9CC 1	70-10-27	--	0	--	--	--
34N 18W 38A 1	70-10-27	--	80	--	--	--

A Many zinc values influenced by corrosion of well casings or metals in distribution systems. May not be representative of water in the aquifer.

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

(WATER USE: H, DOMESTIC; I, IRRIGATION; P, PUBLIC SUPPLY; S, STOCK; T, INSTITUTION; U, UNUSED)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	WATER USE	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
Knox County										
30N 5W 3AD 1	42 36 23	097 52 47	01	P	34	70-12-09	--	--	--	--
31N 2W 1CC 1	42 41 13	097 30 05	01	P	52	70-12-09	--	--	--	--
32N 7W 35DA 1	42 42 16	098 05 07	01	H	100	70-11-05	--	--	--	--
32N 8W 26AB 1	42 43 32	098 12 56	01	S	16	70-11-05	--	--	--	--
33N 8W 24CC 1	42 48 26	098 12 33	01	H	180	70-11-05	--	--	--	--

Pierce County										
28N 3W 33BA 1	42 21 50	097 40 24	01	U	121	70-11-04	52	390	890	59

Scotts Bluff County										
22N 55W 11DDC 1	41 53 25	103 39 28	01	U	32	70-11-17	52	10	11	100

Sheridan County										
29N 46W 10AA 1	42 30 34	102 41 50	01	U	100	70-11-18	56	10	60	69

Sioux County										
33N 53W 5DR 1	42 51 39	103 35 23	01	P	120	70-11-16	--	--	--	--

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
Knox County										
30N 5W 3AD 1	70-12-09	--	--	--	--	--	--	--	--	.00
31N 2W 1CC 1	70-12-09	--	--	--	--	--	--	--	--	17
32N 7W 35DA 1	70-11-05	--	--	--	388	0	850	52	--	--
32N 8W 26AB 1	70-11-05	--	--	--	--	--	--	--	--	18
33N 8W 24CC 1	70-11-05	--	--	--	388	0	850	52	--	--

Pierce County										
28N 3W 33DA 1	70-11-04	14	16	7.7	265	0	25	4.4	.3	.00

Scotts Bluff County										
22N 55W 11DDC 1	70-11-17	26	83	8.7	320	0	230	18	.5	3.5

Sheridan County										
29N 46W 10AA 1	70-11-18	16	19	6.3	252	0	26	15	.4	9.5

Sioux County										
33N 53W 5DR 1	70-11-16	--	400	--	384	0	5.6	420	--	.00

LOCAL IDENT- I- FIER	DATE OF SAMPLE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)
Knox County										
30N 5W 3AD 1	70-12-09	--	--	--	--	--	--	--	570	--
31N 2W 1CC 1	70-12-09	--	--	--	--	--	--	--	876	--
32N 7W 35DA 1	70-11-05	--	--	--	--	--	--	--	2060	--
32N 8W 26AB 1	70-11-05	--	--	--	--	--	--	--	894	--
33N 8W 24CC 1	70-11-05	--	--	--	--	--	--	--	1750	--

Pierce County										
28N 3W 33BA 1	70-11-04	--	60	301	310	200	0	.5	446	7.7

Scotts Bluff County										
22N 55W 11DDC 1	70-11-17	--	120	697	698	360	100	1.9	951	7.6

Sheridan County										
29N 46W 10AA 1	70-11-18	--	310	456	376	240	33	.5	647	7.7

Sioux County										
33N 53W 5DR 1	70-11-16	--	--	--	--	32	0	--	1790	7.8

LOCAL IDENT- IFIER	DATE OF SAMPLE	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	CYANIDE (CN) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)
Knox County										
3CN 5W 3AD 1	7C-12-09	--	--	--	--	--	--	--	--	--
31N 2W 1CC 1	7C-12-09	--	--	--	--	--	--	--	--	--
32N 7W35DA 1	7C-11-05	--	--	--	--	--	--	--	--	--
32N 8W26AB 1	7C-11-05	--	--	--	--	--	--	--	--	--
33N 8W24CC 1	7C-11-05	--	--	--	--	--	--	--	--	--
Pierce County										
28N 3W33BA 1	7C-11-04	1	0	--	--	.20	.03	0	0	0
Scotts Bluff County										
22N 55W11DDC 1	7C-11-17	2	0	--	--	.05	.05	0	0	0
Sheridan County										
29N 46W1CAA 1	7C-11-18	1	0	--	--	.57	.02	0	0	0
Sioux County										
33N 53W 5DB 1	7C-11-16	--	--	--	--	--	--	--	--	--

LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED MOLY- BDENUM (MO) (UG/L)
Knox County								
3CN 5W 3AD 1	7C-12-09	--	--	--	--	--	--	--
31N 2W 1CC 1	7C-12-09	--	--	--	--	--	--	--
32N 7W35DA 1	7C-11-05	--	--	--	--	--	--	--
32N 8W26AB 1	7C-11-05	--	--	--	--	--	--	--
33N 8W24CC 1	7C-11-05	--	--	--	--	--	--	--

Pierce County								
28N 3W33BA 1	7C-11-04	0	0	0	0	20	.0	0
Scotts Bluff County								
22N 55W11DDC 1	7C-11-17	0	0	13	0	40	.0	1
Sheridan County								
29N 46W10AA 1	7C-11-18	0	0	0	0	20	.0	0
Sioux County								
33N 53W 5DB 1	7C-11-16	--	--	--	--	--	--	--

LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SELF- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED ZINC A/ (ZN) (UG/L)
Knox County						
3CN 5W 3AD 1	7C-12-09	--	8	--	--	--
31N 2W 1CC 1	7C-12-09	--	28	--	--	--
32N 7W35DA 1	7C-11-05	--	0	--	--	--
32N 8W26AB 1	7C-11-05	--	24	--	--	--
33N 8W24CC 1	7C-11-05	--	0	--	--	--

Pierce County						
28N 3W33BA 1	7C-11-04	0	12	2	520	10
Scotts Bluff County						
22N 55W11DDC 1	7C-11-17	0	16	1	940	80
Sheridan County						
29N 46W1CAA 1	7C-11-18	0	18	2	650	580
Sioux County						
33N 53W 5DB 1	7C-11-16	--	12	--	--	--

A Many zinc values influenced by corrosion of well casings or metals in distribution systems. May not be representative of water in the aquifer.

CHEMICAL ANALYSIS OF GROUND WATER IN NEBRASKA

FIELD DETERMINATIONS

LOCAL IDENT- I- FIER	DATE OF SAMPLE	TEMP- ERATURE (DEG C)	ALKA- LITY AS CACO ₃ (MG/L)	PH (UNITS)	DIS- SOLVED NITRATE (NO ₃) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
HALL COUNTY						
10N 9W11BD 1	71-06-23	13.5	167	7.2	--	--
10N 9W11BD 1	71-07-21	13.5	169	7.2	0.50	0.11
10N 9W11BD 1	71-08-18	12.5	166	7.3	.10	.02
10N 9W11BD 1	71-09-15	12.0	154	7.2	.40	.09
11N 9W 3DC 1	71-02-25	15.0	108	6.8	--	--
11N 9W 3DC 1	71-03-24	16.5	93	6.9	--	--
11N 9W 3DC 1	71-04-23	15.5	95	6.8	--	--
11N 9W 3DC 1	71-05-20	16.0	93	6.8	--	--
11N 9W 3DC 1	71-06-24	15.5	92	6.7	--	--
11N 9W 3DC 1	71-07-22	16.0	97	6.7	73	16
11N 9W 3DC 1	71-08-19	15.5	97	6.9	82	19
11N 9W 3DC 1	71-09-16	14.5	97	7.0	65	--
11N 9W 8CB 1	71-07-21	13.0	151	6.9	23	--
11N 9W 8CB 1	71-08-18	12.5	156	7.0	27	--
11N 9W 8CB 1	71-09-15	12.5	138	7.0	26	--
11N 9W 8DA 2	71-02-25	12.0	168	7.1	--	--
11N 9W 8DA 2	71-03-23	13.0	133	7.2	--	--
11N 9W 8DA 2	71-04-22	12.5	140	7.3	--	--
11N 9W 8DA 2	71-05-19	13.0	124	7.1	--	--
11N 9W 8DA 2	71-06-23	13.0	131	6.9	--	--
11N 9W 8DA 2	71-07-21	13.5	138	7.1	23	5.2
11N 9W 8DA 2	71-08-18	13.5	139	7.1	30	6.8
11N 9W 8DA 2	71-09-15	13.0	131	7.1	27	6.1
11N 9W10BD 1	71-07-21	13.0	126	7.1	58	13
11N 9W10BD 1	71-08-18	13.5	148	7.1	34	7.7
11N 9W10BD 1	71-09-15	16.0	134	7.2	28	6.3
11N 9W13CA 1	71-02-25	13.5	260	7.3	--	--
11N 9W13CA 1	71-03-24	12.5	207	7.4	--	--
11N 9W13CA 1	71-04-23	12.5	195	7.1	--	--
11N 9W13CA 1	71-05-20	12.5	199	7.2	--	--
11N 9W13CA 1	71-06-24	15.0	202	7.1	--	--
11N 9W13CA 1	71-07-22	17.0	210	7.1	.0	.00
11N 9W13CA 1	71-08-19	19.0	213	7.1	.0	.00
11N 9W13CA 1	71-09-15	17.0	200	7.1	.0	.00
11N 9W28BB 1	71-02-25	13.0	226	7.4	--	--
11N 9W28BB 1	71-03-23	12.5	176	6.8	--	--
11N 9W28BB 1	71-04-22	12.5	175	7.2	--	--
11N 9W28BB 1	71-05-19	12.5	162	7.2	--	--
11N 9W28BB 1	71-06-23	13.0	174	6.8	--	--
11N 9W28BB 1	71-07-21	13.5	177	6.9	27	6.1
11N 9W28BB 1	71-08-18	12.5	180	6.9	32	7.2
11N 9W28BB 1	71-09-15	12.0	175	6.9	32	7.2
11N 10W 2DA 1	71-02-26	13.5	116	7.3	--	--
11N 10W 2DA 1	71-03-24	11.5	97	6.9	--	--
11N 10W 2DA 1	71-04-23	12.5	95	6.8	--	--
11N 10W 2DA 1	71-05-20	12.5	90	6.8	--	--
11N 10W 2DA 1	71-06-24	13.5	85	6.7	--	--
11N 10W 2DA 1	71-07-22	14.0	100	6.7	32	7.2
11N 10W 2DA 1	71-08-19	13.5	95	6.9	37	8.4
11N 10W 2DA 1	71-09-16	12.5	92	6.9	30	6.8
11N 10W13CC 1	71-02-25	13.0	172	6.9	--	--
11N 10W13CC 1	71-03-23	12.5	136	6.9	--	--
11N 10W13CC 1	71-04-22	12.5	139	6.9	--	--
11N 10W13CC 1	71-05-19	12.5	131	7.1	--	--
11N 10W13CC 1	71-06-23	13.0	138	6.9	--	--
11N 10W13CC 1	71-07-21	13.5	141	6.8	17	3.8
11N 10W13CC 1	71-08-18	12.5	149	6.9	20	4.5
11N 10W13CC 1	71-09-15	12.5	143	6.9	15	3.4
12N 9W35BC 1	71-07-22	12.0	177	7.1	6.2	1.4
12N 9W35BC 1	71-08-19	13.0	187	7.0	14	3.2
12N 9W35BC 1	71-09-16	12.5	172	7.2	11	2.5

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