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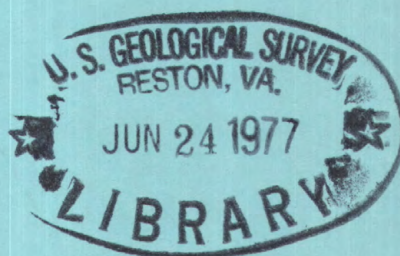
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Water Resources Data for Nebraska

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Water Year 1976



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NE-76-1

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

CALENDAR FOR WATER YEAR 1976

1975

OCTOBER

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Water Resources Data for Nebraska Water Year 1976



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NE-76-1

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

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

For information on the water program in Nebraska write to
District Chief, Water Resources Division
U.S. Geological Survey
Room 406, Federal Bldg. and U.S. Courthouse
100 Centennial Mall North
Lincoln, Nebraska 68508

PREFACE

This report was prepared by personnel of the Nebraska district of the Water Resources Division of the U.S. Geological Survey under the supervision of K. A. Mac Kichan, District Chief, and Alfred Clebsch, Jr., Regional Hydrologist, Central Region. It was done in cooperation with the State of Nebraska and with other agencies.

This report is one of a series issued by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

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(b) biological, (m) microbiological, (t) water temperature, and (s) sediment]

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WATER RESOURCES DATA FOR NEBRASKA, 1976

INTRODUCTION

Water-resources data for the 1976 water year for Nebraska consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 146 gaging stations; stage and contents for 9 lakes and reservoirs; water quality for 40 gaging stations, 18 ungaged stations, 27 partial-record flow or miscellaneous stations, and 96 wells; and water levels for 66 observation wells. Also included are data for 114 crest-stage partial-record stations and 12 low-flow partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Nebraska.

Records of discharge (or stage) of streams, and contents (or stage) of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through water year 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

For water years 1961 through 1974, streamflow data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis.

These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report NE-76-1." Water-data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22151.

COOPERATION

The U.S. Geological Survey and organizations of the State of Nebraska have had cooperative agreements for the collection of water-resource records since 1930. Organizations that assisted in collecting the data in this report through cooperative agreement with the Survey are:

Nebraska Department of Water Resources, M. E. Ball, Director
Conservation and Survey Division, University of Nebraska-Lincoln, V. H. Dreeszen, Director
Nebraska Natural Resources Commission, Dayle E. Williamson, Executive Secretary
Nebraska Department of Roads, T. D. Doyle, Director-State Engineer
Big Blue River Compact Administration
Lower Platte South Natural Resources District, H. L. Schroeder, General Manager
Upper Big Blue Natural Resources District, Floyd Marsh, Manager

Assistance in the form of funds and services was given by the Corps of Engineers, U.S. Army, in collecting records for 36 gaging stations and by the U.S. Environmental Protection Agency in collecting records for 4 water-quality stations published in this report.

The following organizations aided in collecting records: Central Nebraska Public Power and Irrigation District, Nebraska Public Power District, and Loup River Public Power District.

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Nebraska district personnel who contributed significantly to the collection and preparation of the data in this report were: G. G. Jamison, R. A. Engberg, M. J. Ellis, E. K. Steele, Jr., G. B. Engel, C. R. Liggett, and H. D. Stephens.

HYDROLOGIC CONDITIONS

Streamflow which was below normal Statewide at the beginning of the 1976 water year returned to near normal for a few months during the spring. By the end of the water year unseasonably dry weather caused streamflow to drop much below normal in most of the State. Streamflow was in the deficient range (lower 25 percent of record) for 7 months at the Elkhorn River near Waterloo, in eastern Nebraska, and for 5 months at the Niobrara River above Box Butte Reservoir, in the panhandle. Yearly runoff was 54 percent of median at the Waterloo station and 74 percent of median at the station above Box Butte Reservoir. The lowest monthly mean for the period of record (49 years) was recorded in August at the Waterloo station.

Precipitation was much below normal during the water year. The weather station at Lincoln, which has provided continuous records for 99 years, recorded the second driest October in 40 years and the driest August for the period of record.

The quality of water in the lower reach of the Platte River was affected considerably by drought conditions and deficient streamflow during the summer months. For the period of record prior to the 1976 water year, the maximum specific-conductance value observed for the Platte River at Louisville was 1,560 micromhos. This value was exceeded on 33 days during July to September 1976; a maximum conductance of 3,450 micromhos was observed on September 1. At times during this period, saline water from Salt Creek made up over 40 percent of the total discharge at the Louisville station.

The drought conditions which existed over most of Nebraska during the 1976 water year caused water-level declines in many parts of the State. Average water levels were lower in the fall of 1976 than in the fall of 1975 in 91 of Nebraska's 93 counties. The greatest declines occurred in Fillmore, Chase, and Perkins Counties where water levels declined an average of more than 3 feet. Average water-level declines were greater between fall 1975 and fall 1976 than between fall 1974 and fall 1975 in 54 counties.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the weight or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in g/m³ (grams per cubic meter), and periphyton and benthic organisms in g/m² (grams per square meter).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass, and represents the actual weight of the living matter. The organic mass weight is expressed in the same units as for ash and dry mass.

Wet mass is the mass of living matter plus contained water.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,445 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic foot per second (CFS, ft³/s) 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 or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

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

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to the amount of a substance present in true chemical solution. In practice, however, the term includes all forms of the substance that will pass through a 0.45-micron membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

Drainage area of a stream at 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 point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

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.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

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 (UG/L, $\mu\text{g/L}$) 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.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L , and is based on the mass of sediment per liter of water-sediment mixture.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality 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 either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or sieve
Gravel.....	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Polychlorinated biphenyls (PCB's) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organo-chlorine insecticides.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from 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 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).

Suspended-sediment discharge (tons/day) 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 or volume, that is discharged in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

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 concentration 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 vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and the volume of water, per unit of time, flowing in a channel.

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" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrates simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45-micron membrane filter.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata, is the following:

Kingdom.....Animal
Phylum.....Arthropoda
Class.....Insecta
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....Hexagenia
Species.....Hexagenia limbata

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.

Tons per acre-foot indicates the dry mass of dissolved solids 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 quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total (as used in tables of chemical analyses) refers to the amount of a substance that is present both in solution and in suspension. Analyses are performed on representative samples of water-suspended sediment mixtures.

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, 1976, is called the "1976 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual basic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by

an indentation in a list of stations in the front of the report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 06796000, which appears just to the left of the station name, includes the 2-digit part number "06" plus the 6-digit downstream-order number "796000."

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream-order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1 below.

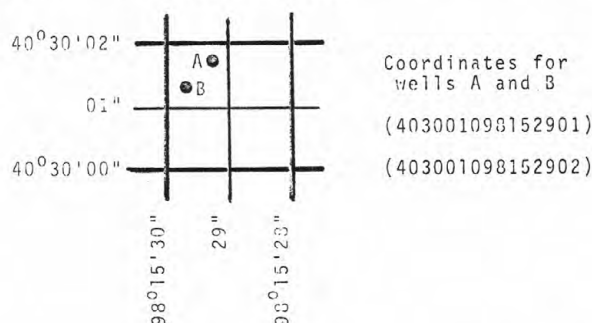


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen 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.

National stream-quality accounting network (NASQAN) is a data-collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For a stream-gaging station rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The application of the daily mean gage heights to the rating table gives the daily mean discharge, from which the monthly and the yearly mean discharges are computed. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. Discharge over spillways is computed from a stage-discharge relation curve defined by discharge measurements. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, and general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by the notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified.

Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and to the availability of water quality records, is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month

or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs, a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation, evaporation, or other factors. For such stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of discharge collected by agencies other than the Geological Survey

Records of daily diversions of water from streams by canals are collected by and published in Hydrographic Reports of the Nebraska Department of Water Resources. Also published therein are discharge records for Nebraska streams and storage records for Nebraska reservoirs which are not published in reports of the U.S. Geological Survey. Copies of the Hydrographic Reports may be obtained by addressing the Nebraska Department of Water Resources, Capitol Building, P.O. Box No. 94607, Lincoln, NE 68509.

Records of discharge not published by the Geological Survey were collected in Nebraska at three sites by Corps of Engineers, U.S. Army. The National Water Data Exchange (NAWDEX), Water Resources Division, U.S. Geological Survey, Reston, VA 22092, maintains an index of these sites. Information on records at specific sites can be obtained from that office upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily, maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water temperatures

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. Conversions of degrees Celsius to degrees Fahrenheit are shown in table 3. For stations where water temperatures are measured manually once daily, the water temperatures are taken about the same time each day. For stations where thermographs are located, maximum and minimum daily temperatures are published. Large streams have a small diel temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section. When concentrations of suspended sediment are fairly uniform across a stream, observer samples taken at a fixed point are sufficient from which to determine mean concentrations for the cross section.

During periods when water discharge and sediment concentrations may be changing rapidly, samples may be collected more frequently than daily. Published mean daily sediment concentrations for these periods may be computed by the subdivided day method (time-discharge weighted average).

At some stations suspended-sediment samples are collected only periodically. Although data from periodic collections may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

Parameter codes

In most of the column headings of this report the names of the constituents or properties for which data are given are followed by five-digit codes which appear in parentheses. These codes, called parameter codes, are identical to those introduced or approved by the U.S. Environmental Protection Agency and are widely used by federal and state agencies. The codes indicate, to one having a key, more precisely than the verbal column headings can the constituents or properties being reported. Data listed under a given code in this report should be comparable to those listed under the same code by other agencies.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic national network of observation wells are published herein. These water-level measurements are intended to provide a sampling and historical record of water-level changes in the nation's most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on the grid system of latitude and longitude as described under the section entitled "NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES," and (2) a local number that is provided for continuity with older reports and for other use as dictated by local needs.

Measurements are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Table 1.--Factors for conversion of chemical constituents in milligrams per liter to milliequivalents per liter

<u>Ion</u>	<u>Factor</u>	<u>Ion</u>	<u>Factor</u>
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 2.--Factors for conversion of sediment concentration in milligrams per liter to parts per million*
(All values calculated to three significant figures)

Range of concentration in 1,000 mg/L	Di- vide by	Range of concentration in 1,000 mg/L	Di- vide by	Range of concentration in 1,000 mg/L	Di- vide by	Range of concentration in 1,000 mg/L	Di- vide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.00 g/mL and a specific gravity of sediment of 2.65.

Table 3.--Conversions of degrees Celsius (°C) to degrees Fahrenheit (°F).*
(Temperature reported to nearest 0.5°C.)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*°C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-one manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Picket Street, Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 p. \$1.60.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. \$1.90.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. \$1.75.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. \$0.25.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. \$0.20.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhain: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. \$0.40.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. \$1.00.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. \$0.30.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages. \$0.20.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. \$0.45.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. \$1.25.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. \$0.40.
- 3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. \$0.35. Not currently available.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. \$0.70.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by D. S. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages. \$2.50.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. \$0.65.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages. \$0.70.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. \$1.15.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. \$0.30.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. \$0.20.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. \$0.65.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. \$0.75.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. \$0.75.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. \$0.65.
- 5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. \$2.40.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. \$0.80.

- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. \$0.90.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by K. V. Slack, R. C. Averett, P. E. Greeson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages. \$1.95.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. \$0.65.
- 7-C1. *Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages. \$2.30.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 34 pages. \$0.70.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. \$0.40.

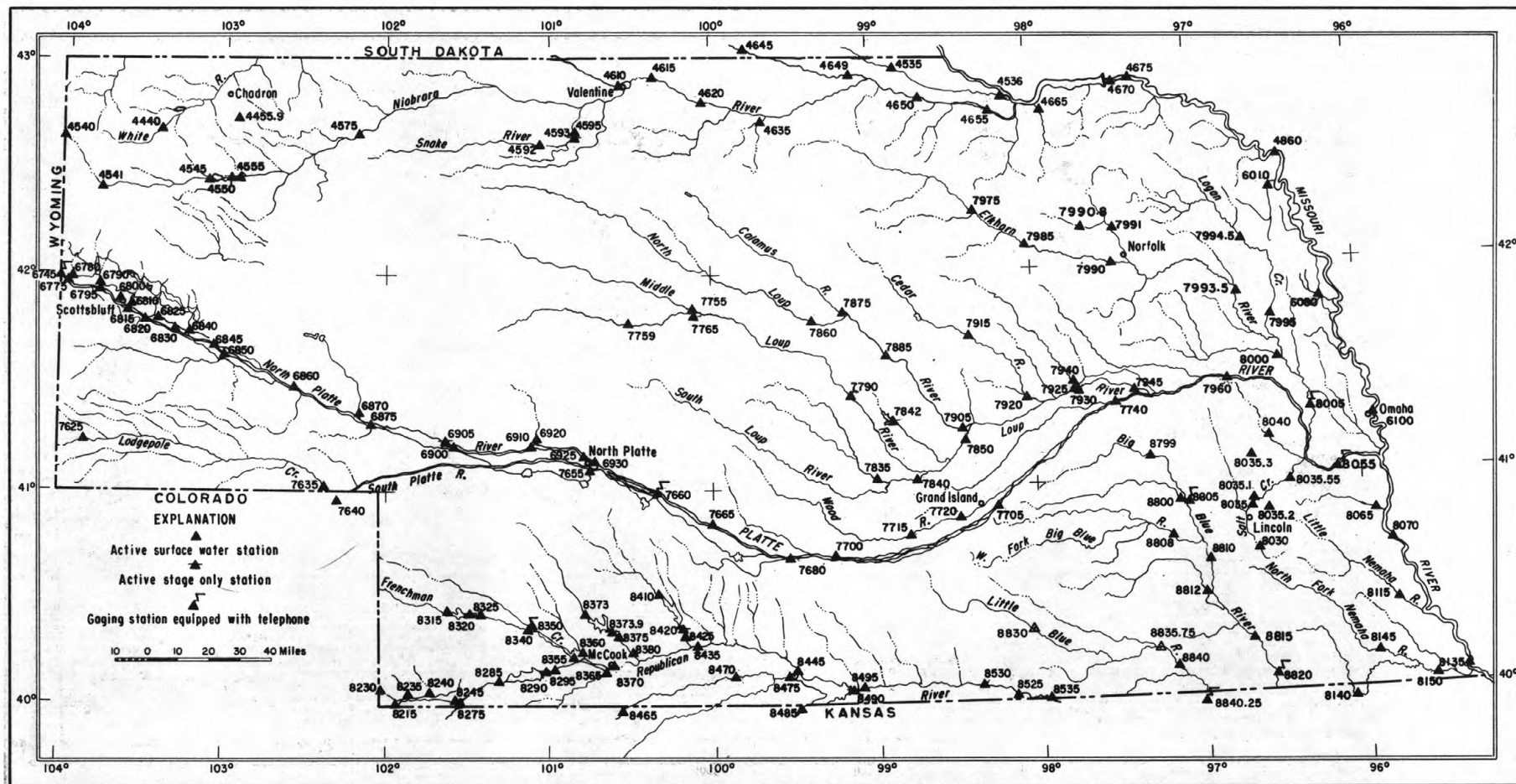


Figure 2.-- Map of Nebraska showing location of complete-record stations.

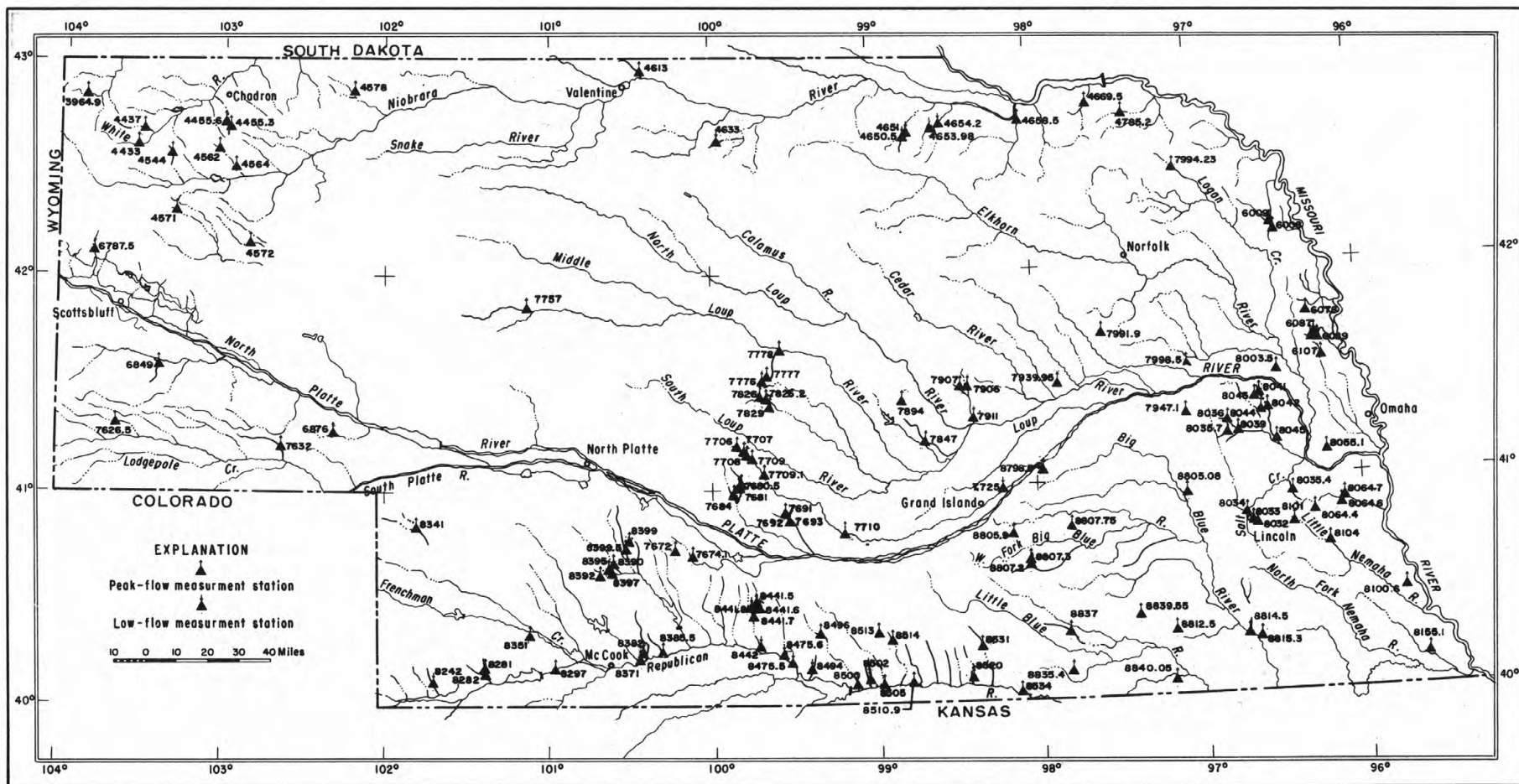


Figure 3.--Map of Nebraska showing location of partial-record stations.

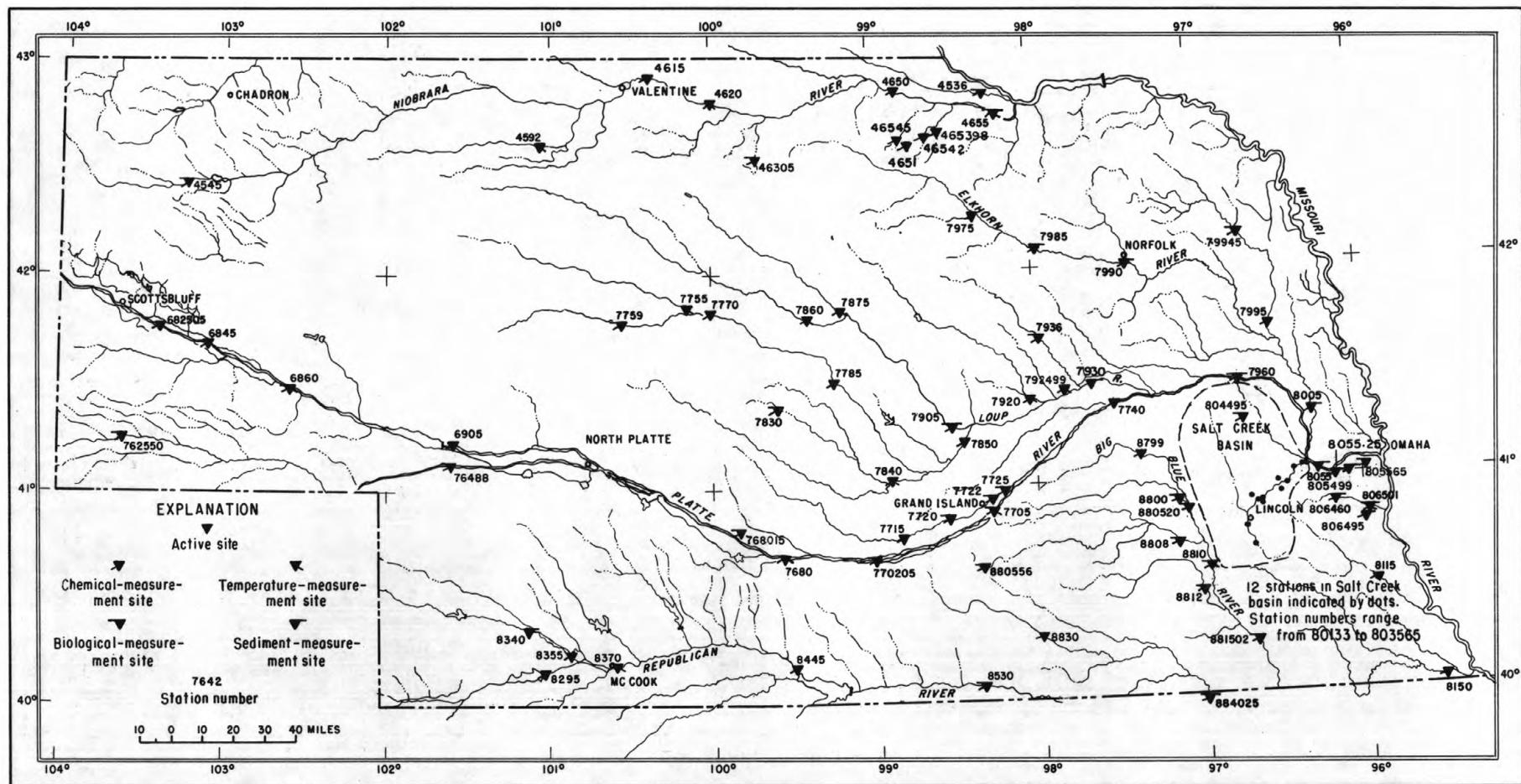


Figure 4.--Map showing locations of surface water-quality stations in Nebraska, 1976 water year.

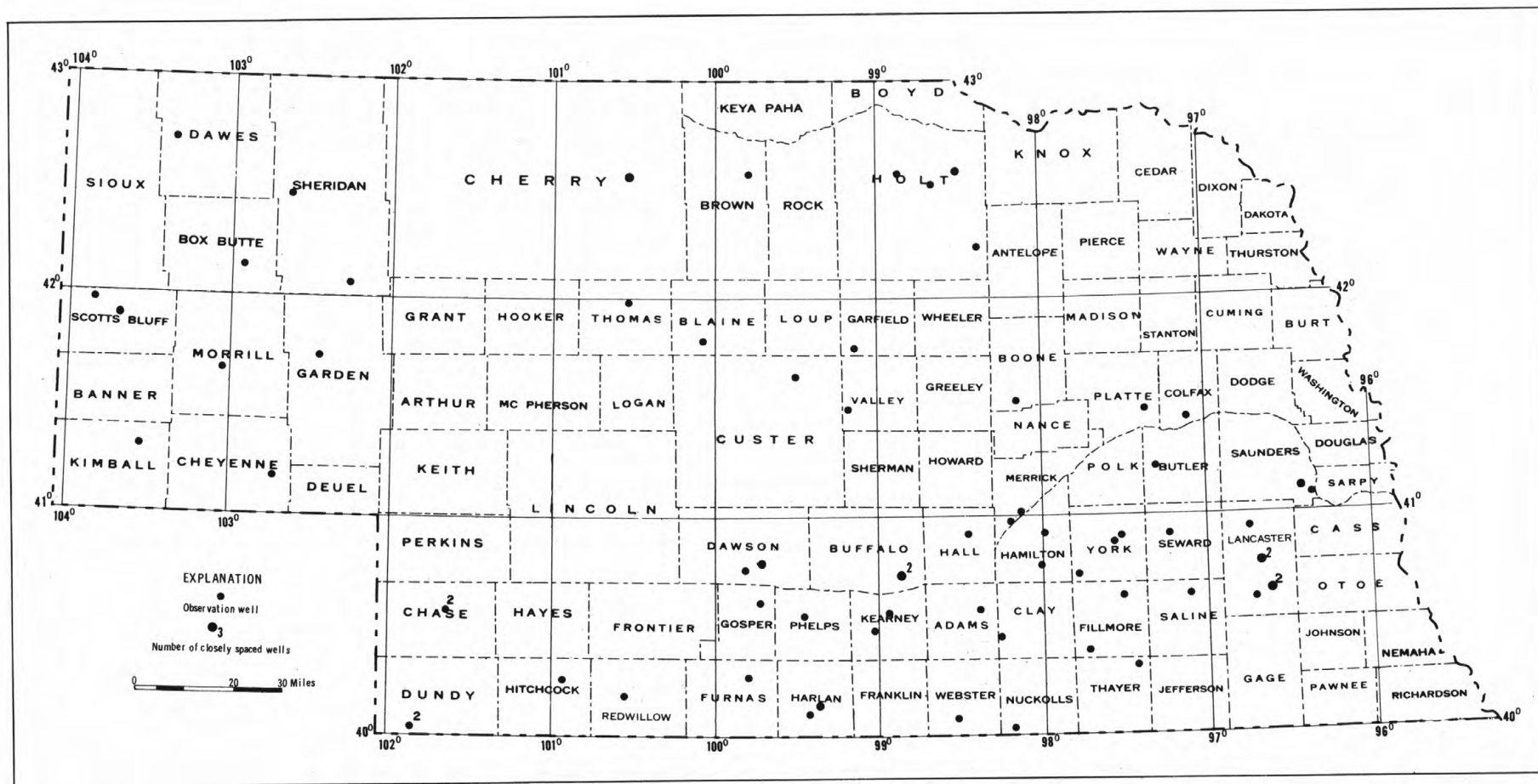


Figure 5.-- Map showing locations of observation wells.

GAGING-STATION RECORDS

21

WHITE RIVER BASIN

06444000 WHITE RIVER AT CRAWFORD, NE

LOCATION.--Lat 42°41'33", long 103°25'03", in W1/2 sec.3, T.31 N., R.52 W., Dawes County, Hydrologic Unit 10140201, on right bank 15 ft (5 m) downstream from bridge in city park at Crawford.

DRAINAGE AREA.--313 mi² (811 km²).

PERIOD OF RECORD.--February 1931 to September 1943, October 1947 to current year.

REVISED RECORDS.--WSP 1309: 1931(M), 1942(M). WSP 1729: 1958-59(M). WSP 1917: 1958-59.

GAGE.--Water-stage recorder. Datum of gage is 3,659.85 ft (1,115.522 m) above mean sea level. Feb. 25, 1931, to Oct. 2, 1933, nonrecording gage at old highway bridge 0.5 mi (0.8 km) upstream at different datum and Oct. 3, 1933, to Sept. 30, 1943, 1 mi (2 km) upstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Some regulation at low flows by pumps for irrigation and diversion for water supply for town of Crawford.

AVERAGE DISCHARGE.--41 years, 20.2 ft³/s (0.572 m³/s), 14,630 acre-ft/yr (18.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft³/s (44.7 m³/s) Mar. 15, 1948, gage height, 6.88 ft (2.097 m); maximum gage height, 7.7 ft (2.35 m) July 10, 1958, from floodmarks; minimum daily discharge, 2.7 ft³/s (0.076 m³/s) Aug. 13, 31, Sept. 1, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 91 ft³/s (2.58 m³/s) May 26, gage height, 2.26 ft (0.689 m), no peak above base of 100 ft³/s (2.83 m³/s); maximum gage height, 2.99 ft (0.911 m) Jan. 4, backwater from ice; minimum daily discharge, 9.4 ft³/s (0.27 m³/s) Aug. 24, 31, Sept. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	18	20	15	22	25	22	24	25	16	17	9.8
2	13	18	20	14	21	25	21	23	24	17	17	9.4
3	13	18	19	12	21	25	21	25	23	19	16	9.4
4	13	18	19	13	18	23	22	22	23	17	15	9.4
5	13	18	19	16	18	20	22	23	22	16	15	10
6	14	18	18	18	20	25	22	25	21	15	15	10
7	14	18	18	16	24	22	25	22	20	14	15	10
8	14	18	18	15	27	22	26	23	20	15	14	12
9	14	18	19	17	27	22	23	23	19	14	12	12
10	14	17	19	18	27	22	23	22	19	13	12	12
11	15	17	20	20	25	22	23	22	18	13	12	12
12	15	17	19	22	24	20	22	22	18	12	12	12
13	15	18	19	22	25	25	23	21	19	12	12	12
14	16	18	16	24	25	23	24	20	19	13	12	12
15	16	18	18	22	26	24	23	20	28	13	12	12
16	16	18	18	21	26	23	26	23	27	13	12	12
17	16	18	15	22	25	25	33	22	22	12	11	12
18	16	18	16	22	24	26	28	20	21	12	10	13
19	17	18	19	22	23	25	25	20	21	13	10	14
20	17	17	18	22	23	24	27	20	20	13	10	14
21	17	17	18	19	23	23	25	22	19	16	9.8	14
22	17	17	18	20	24	23	25	26	18	33	9.8	14
23	18	24	18	20	24	23	25	51	19	16	9.8	14
24	20	23	18	21	23	22	23	41	20	15	9.4	14
25	19	20	20	18	23	22	23	34	20	14	9.8	15
26	20	20	20	16	24	22	23	51	19	14	10	16
27	20	19	21	20	24	22	27	29	18	14	9.8	17
28	19	19	21	20	24	22	27	27	17	13	10	16
29	19	15	25	20	25	22	26	26	17	13	10	16
30	19	22	20	22	---	22	25	27	17	13	10	16
31	18	---	17	22	---	21	---	27	---	13	9.4	---
TOTAL	500	552	583	591	685	712	730	803	613	456	368.8	381.0
MEAN	16.1	18.4	18.8	19.1	23.6	23.0	24.3	25.9	20.4	14.7	11.9	12.7
MAX	20	24	25	24	27	26	33	51	28	33	17	17
MIN	13	15	15	12	18	20	21	20	17	12	9.4	9.4
AC-FT	992	1090	1160	1170	1360	1410	1450	1590	1220	904	732	756

CAL YR 1975 TOTAL 7155.9 MEAN 19.6 MAX 148 MIN 8.5 AC-FT 14190
 WTR YR 1976 TOTAL 6974.8 MEAN 19.1 MAX 51 MIN 9.4 AC-FT 13830

WHITE RIVER BASIN

06445590 BIG BORDEAUX CREEK NEAR CHADRON, NE

LOCATION.--Lat 42°43'30", long 102°55'44", in NW1/4NW1/4 sec.26, T.32 N., R.48 W., Daves County, Hydrologic Unit 10140201, Nebraska National Forest-Pine Ridge Division, on right bank 4.2 mi (6.8 km) northeast of Chadron State Park headquarters and 8 mi (13 km) southeast of Chadron.

DRAINAGE AREA.--9.42 mi² (24.40 km²).

PERIOD OF RECORD.--June 1968 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records good, except those for winter period, which are poor.

AVERAGE DISCHARGE.--8 years, 0.46 ft³/s (0.0130 m³/s), 333 acre-ft/yr (0.411 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 400 ft³/s (11.3 m³/s) July 20, 1969, gage height, 4.89 ft (1.490 m), from rating curve extended above 13 ft³/s (0.37 m³/s) on basis of slope-area measurement of peak flow; no flow Dec. 10-16, 1972, Jan. 6-12, 1973, Mar. 28, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.5 ft³/s (0.071 m³/s) Dec. 27 at 1115, gage height, 1.59 ft (0.485 m), no other peak above base of 2.0 ft³/s (0.057 m³/s); maximum gage height, 1.65 ft (0.503 m) Feb. 5, backwater from ice; minimum daily discharge, 0.07 ft³/s (0.002 m³/s) Sept. 9-13, 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.30	.39	.35	.34	.70	.56	.56	.79	.42	.24	.11
2	.13	.30	.42	.32	.34	.61	.56	.56	.79	.51	.21	.09
3	.13	.30	.38	.29	.34	.56	.56	.61	.70	.51	.21	.09
4	.18	.30	.34	.31	.34	.51	.56	.61	.61	.46	.21	.11
5	.19	.30	.34	.33	.30	.46	.56	.70	.56	.46	.19	.13
6	.19	.27	.38	.30	.27	.51	.56	.70	.51	.42	.19	.08
7	.19	.27	.34	.25	.30	.56	.61	.70	.46	.38	.19	.08
8	.19	.27	.38	.27	.46	.56	.61	.70	.42	.38	.14	.08
9	.19	.27	.38	.31	.51	.51	.61	.61	.42	.24	.14	.07
10	.21	.27	.38	.33	.42	.51	.61	.61	.42	.19	.14	.07
11	.21	.27	.38	.35	.42	.51	.56	.56	.46	.19	.13	.07
12	.21	.27	.34	.36	.51	.46	.56	.56	.46	.19	.13	.07
13	.21	.27	.30	.34	.56	.56	.56	.56	.42	.19	.14	.07
14	.21	.30	.30	.31	.70	.51	.56	.56	.46	.19	.13	.08
15	.19	.30	.30	.33	.70	.51	.56	.56	.51	.19	.13	.08
16	.19	.30	.30	.37	.61	.56	.79	.61	.42	.19	.11	.08
17	.21	.30	.34	.42	.61	.61	.79	.56	.42	.14	.11	.07
18	.24	.30	.34	.45	.61	.70	.70	.56	.42	.14	.09	.07
19	.21	.34	.34	.41	.56	.70	.70	.56	.42	.14	.11	.08
20	.21	.34	.34	.42	.39	.70	.70	.51	.38	.16	.11	.08
21	.21	.30	.38	.45	.46	.70	.70	.56	.38	.16	.09	.08
22	.21	.30	.34	.47	.42	.79	.70	.70	.38	.14	.09	.08
23	.30	.34	.34	.47	.42	.79	.70	1.2	.46	.14	.09	.09
24	.34	.34	.34	.43	.42	.70	.70	1.1	.46	.13	.09	.09
25	.38	.30	.34	.36	.56	.70	.70	.97	.42	.13	.11	.11
26	.30	.27	.34	.30	.70	.70	.61	.97	.42	.13	.09	.11
27	.30	.24	.51	.35	.70	.70	.70	.97	.42	.13	.11	.13
28	.30	.24	.42	.38	.70	.70	.70	.88	.42	.14	.09	.13
29	.30	.24	.42	.38	.70	.70	.70	.88	.42	.24	.09	.13
30	.30	.27	.51	.38	---	.70	.61	.79	.42	.21	.09	.13
31	.30	---	.40	.38	---	.61	---	.79	---	.16	.11	---
TOTAL	7.04	8.68	11.35	11.17	14.37	19.10	19.10	21.77	14.25	7.40	4.10	2.74
MEAN	.23	.29	.37	.36	.50	.62	.64	.70	.48	.24	.13	.091
MAX	.38	.34	.51	.47	.70	.79	.79	1.2	.79	.51	.24	.13
MIN	.11	.24	.30	.25	.27	.46	.56	.51	.38	.13	.09	.07
AC-FT	14	17	23	22	29	38	38	43	28	15	8.1	5.4

CAL YR 1975 TOTAL 140.89 MEAN .39 MAX 1.5 MIN 0 AC-FT 279
WTR YR 1976 TOTAL 141.07 MEAN .39 MAX 1.2 MIN .07 AC-FT 280

PONCA CREEK BASIN

23

06453500 PONCA CREEK AT ANOKA, NE

LOCATION.--Lat 42°56'25", long 98°50'30", in NE1/4 sec.9, T.34 N., R.13 W., Boyd County, Hydrologic Unit 10150001, on downstream side of left pier of bridge on State Highway 11, 0.5 mi (0.8 km) southwest of Anoka and 0.5 mi (0.8 km) upstream from Dry Creek.

DRAINAGE AREA.--505 mi² (1,308 km²).

PERIOD OF RECORD.--March 1949 to current year.

REVISED RECORDS.--WSP 2117: Drainage area.

GAGE.--Water-stage recorder for stages above 0.4 ft (0.12 m) and nonrecording gage read twice daily. Altitude of gage is 1,630 ft (497 m), from topographic map. Prior to Sept. 13, 1950, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--27 years, 47.5 ft³/s (1.345 m³/s), 34,410 acre-ft/yr (42.4 hm³/yr); median of yearly mean discharges, 33 ft³/s (0.935 m³/s), 23,900 acre-ft/yr (29.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,810 ft³/s (278 m³/s) Mar. 27, 1960, gage height, 16.86 ft (5.139 m); no flow at times in 1949-50, 1955-62, 1965-71, 1974-76.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 79 ft³/s (2.24 m³/s) May 24, gage height, 2.83 ft (0.863 m), no peak above base of 500 ft³/s (14.2 m³/s); maximum gage height observed, 3.85 ft (1.173 m) Feb. 16, backwater from ice; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.06	.10	.10	1.2	4.3	3.6	3.6	2.6	.06		
2	0	.02	.20	.20	1.1	4.1	3.3	3.6	2.0	.06		
3	0	.02	.20	.10	1.1	3.9	3.2	3.2	1.6	.26		
4	0	.06	.20	.20	.80	4.5	3.6	2.8	1.5	.35		
5	0	.02	.10	.10	.70	4.3	3.2	2.7	1.2	.14		
6	0	.06	.10	.20	.60	4.7	3.0	2.6	1.2	.02		
7	0	.06	.10	.20	1.4	5.0	4.9	2.2	1.0	.01		
8	0	.06	.20	.20	3.0	6.0	4.4	2.1	.80	.02		
9	0	.06	.40	.30	4.5	7.4	4.4	1.8	.75	0		
10	0	.02	.50	.30	3.9	10	4.1	1.8	.70	0		
11	0	.02	.50	.30	3.7	9.6	3.6	1.8	.90	0		
12	0	0	.40	.20	3.6	9.0	4.1	2.7	.55	0		
13	0	0	.30	.50	4.0	12	4.4	3.0	.50	0		
14	0	.02	.20	.60	4.3	25	4.1	2.6	.45	0		
15	0	.06	.10	.60	4.5	37	4.1	2.1	.45	0		
16	0	.02	.10	.60	4.3	42	6.0	1.8	.50	0		
17	0	.02	.20	.50	4.2	38	4.4	3.2	.40	0		
18	0	.10	.10	.50	4.0	42	5.7	3.3	.40	0		
19	0	.10	.10	.50	4.3	41	4.9	2.1	.30	0		
20	0	0	.10	.60	4.0	36	5.2	1.7	.26	0		
21	0	0	.20	.60	3.9	25	4.6	1.8	.14	0		
22	0	0	.20	.60	4.4	18	3.8	3.6	.06	0		
23	.22	0	.10	.70	5.2	14	4.1	19	.35	0		
24	.35	0	.10	.70	5.8	11	4.6	25	1.3	0		
25	.18	0	.20	.70	5.6	8.4	5.7	42	.60	0		
26	.10	0	.20	.60	5.6	6.0	4.9	24	.35	0		
27	.06	0	.30	.70	5.8	4.9	4.4	16	.26	0		
28	.06	0	.40	.80	5.6	4.4	4.6	9.0	.18	0		
29	.02	0	.30	1.2	5.0	4.1	4.4	5.5	.10	0		
30	.02	.10	.20	1.0	---	3.8	3.8	3.8	.06	0		
31	.06	---	.10	1.4	---	3.3	---	3.0	---	0		---
TOTAL	1.07	.88	6.50	15.80	106.10	448.7	129.1	203.4	21.46	.92	0	0
MEAN	.035	.029	.21	.51	3.66	14.5	4.30	6.56	.72	.030	0	0
MAX	.35	.10	.50	1.4	5.8	42	6.0	42	2.6	.35	0	0
MIN	0	0	.10	.10	.60	3.3	3.0	1.7	.06	0	0	0
AC-FT	2.1	1.7	13	31	210	890	256	403	43	1.8	0	0

CAI YR 1975 TOTAL 2410.27 MEAN 6.60 MAX 172 MIN 0 AC-FT 4780
WTR YR 1976 TOTAL 933.93 MEAN 2.55 MAX 42 MIN 0 AC-FT 1850

PONCA CREEK BASIN

06453600 PONCA CREEK AT VERDEL, NE

LOCATION.--Lat 42°48'40", long 98°10'35", in NE1/4NE1/4 sec.30, T.33 N., R.7 W., Kncx County, Hydrologic Unit 10150001, near left bank at left downstream end of bridge on State Highway 12, 0.6 mi (1.0 km) east of Verdel and 3.1 mi (5.0 km) upstream from mouth.

DRAINAGE AREA.--812 mi² (2,103 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to current year.

REVISED RECORDS.--WSP 2117: Drainage area.

GAGE.--Water-stage recorder and nonrecording gage read once daily. Datum of gage is 1,232.9 ft (375.79 m) above mean sea level (Nebraska Department of Highways reference marks). See WSP 1917 for history of changes prior to Nov. 15, 1962.

REMARKS.--Records poor prior to April and good thereafter.

AVERAGE DISCHARGE.--19 years, 74.0 ft³/s (2.096 m³/s), 53,610 acre-ft/yr (66.1 hm³/yr); median of yearly mean discharges, 56 ft³/s (1.586 m³/s), 40,600 acre-ft/yr (50.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,700 ft³/s (445 m³/s) Mar. 27, 1960, gage height, 15.10 ft (4.602 m), site and datum then in use; no flow for many days in 1957-60, 1965-72, 1974-76.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 240 ft³/s (6.80 m³/s) Mar. 15, gage height, 2.91 ft (0.887 m), no peak above base of 800 ft³/s (22.7 m³/s); maximum gage height, 3.55 ft (1.082 m) Feb. 11, 20, backwater from ice; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.60	.90	2.7	17	26	20	15	.73		
2		0	.80	1.1	2.6	14	25	17	13	.49		
3		0	.90	.90	2.6	11	24	16	11	1.1		
4		0	.70	1.1	2.1	9.0	24	16	9.7	1.3		
5		0	.50	.90	1.6	7.0	24	14	7.9	2.0		
6		0	.80	1.1	1.3	11	23	13	7.5	1.3		
7		0	1.5	1.1	3.0	14	22	12	6.6	.43		
8		0	1.9	1.0	6.0	27	24	13	5.9	.14		
9		0	2.9	1.0	10	30	24	13	5.6	.05		
10		0	2.4	1.3	7.4	35	22	12	5.0	0		
11		.12	1.8	1.3	7.6	42	21	11	4.6	0		
12		.08	1.8	1.1	9.0	40	19	21	4.3	0		
13		.36	1.7	.90	8.6	60	20	16	3.6	0		
14		.80	1.5	.80	9.6	100	20	14	3.1	0		
15		.98	1.4	.90	9.0	176	21	12	3.1	0		
16		1.1	1.5	1.0	8.6	179	28	10	3.5	0		
17		1.2	1.2	1.3	8.2	152	29	9.2	3.5	0		
18		1.8	.90	1.5	7.8	176	31	8.8	2.9	0		
19		3.5	.80	1.1	8.6	197	28	8.8	2.6	0		
20		2.0	.80	1.0	7.8	197	39	8.8	2.2	0		
21		.50	1.1	1.3	7.0	160	35	12	1.4	0		
22		.20	1.0	1.7	9.0	96	27	25	1.4	0		
23		.10	1.0	1.6	15	69	24	48	1.3	0		
24		0	.90	1.5	17	68	26	92	13	0		
25		0	.90	1.4	16	61	27	59	14	0		
26		0	1.0	1.2	19	58	23	45	7.7	0		
27		0	1.1	1.4	18	49	22	48	4.2	0		
28		0	1.0	1.7	20	40	21	35	2.7	0		
29		.20	2.0	2.5	22	37	19	26	1.6	0		
30		.70	1.3	2.3	---	31	21	21	1.2	0		
31		---	1.0	3.0	---	27	---	18	---	0		---
TOTAL	0	13.64	38.70	40.90	267.1	2190.0	739	694.6	169.1	7.54	0	0
MEAN	0	.45	1.25	1.32	9.21	70.6	24.6	22.4	5.64	.24	0	0
MAX	0	3.5	2.9	3.0	22	197	39	92	15	2.0	0	0
MIN	0	0	.50	.80	1.3	7.0	19	8.8	1.2	0	0	0
AC-FT	0	27	77	81	530	4340	1470	1380	335	15	0	0
CAL YR 1975	TOTAL	6321.53	MEAN	17.3	MAX	277	MIN	0	AC-FT	12540		
WTR YR 1976	TOTAL	4160.58	MEAN	11.4	MAX	197	MIN	0	AC-FT	8250		

PONCA CREEK BASIN

25

06453600 PONCA CREEK AT VERDEL, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--July 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
NOV 19...	1135	3.2	1110	8.0	3.0	3	13.3	--	878	7900	16
DEC 09...	1320	3.1	1550	7.0	3.0	3	10.0	9.0	159	6700	23
JAN 06...	1110	1.1	1580	7.0	.5	2	8.7	4.0	120	190	22
FEB 10...	1140	7.7	1160	7.5	1.0	3	11.0	3.0	74	3100	18
MAR 03...	1225	13	1170	7.5	.5	25	12.4	2.0	13	160	13
APR 14...	0935	20	1290	7.4	18.0	10	10.0	--	63	600	18
MAY 05...	0920	15	1340	7.2	13.0	8	8.9	2.3	130	2700	17
JUN 16...	0940	3.8	1420	7.2	19.5	5	8.2	5.9	310	1200	2.8
JUL 08...	0915	.19	1660	7.1	24.5	8	7.4	1.8	5100	10000	23

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	DISSOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DISSOLVED PHOSPHORUS (P) (MG/L) (00666)
NOV 19...	--	1.04	6.82	.15	.02	1.4	1.4	1.6	.02	.02
DEC 09...	1270	1.73	10.6	.22	.05	.46	.51	.73	.02	.01
JAN 06...	1270	1.73	3.84	.19	.13	.72	.85	1.0	.13	.06
FEB 10...	--	1.24	18.9	.25	.07	.41	.48	.73	.01	.01
MAR 03...	981	1.33	34.4	.95	.05	.53	.58	1.5	.08	.03
APR 14...	1050	1.43	57.3	.01	.02	.36	.38	.39	.03	.00
MAY 05...	--	1.39	41.6	.06	.02	.12	.14	.20	.03	.01
JUN 16...	1880	2.56	19.3	.06	.06	.19	.25	.31	.04	.02
JUL 08...	1330	1.81	.68	.12	.10	.53	.63	.75	.09	.05

PONCA CREEK BASIN

06453600 PONCA CREEK AT VERDEL, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HC03) (MG/L) (00440)
NOV 19...	1135	4	490	380	130	39	39	.8	12	124
FEB 10...	1140	5	620	400	180	42	43	.8	12	266
MAY 05...	0920	2	680	520	190	49	50	.8	13	196

DATE	CAR- BONATE (C03) (MG/L) (00445)	ALKA- LINITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
NOV 19...	0	102	460	.3	9.7	768	1	170	0	10
FEB 10...	0	218	470	.4	13	910	0	170	0	0
MAY 05...	0	161	590	.3	12	1020	--	340	--	--

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
NOV 19...	1	60	1	170	.0	.0	.0	5	0	0
FEB 10...	1	10	1	310	.1	.0	.1	3	0	0
MAY 05...	--	10	--	130	--	--	--	--	--	--

NIOBRARA RIVER BASIN

27

06454000 NIOBRARA RIVER AT WYOMING-NEBRASKA STATE LINE

LOCATION.--Lat 42°39'33", long 104°03'54", in SE1/4SW1/4 sec.15, T.31 N., R.60 W., Niobrara County, Wy., Hydrologic Unit 10150002, on left bank 0.2 mi (0.3 km) downstream from Van Tassel Creek, 0.3 mi (0.5 km) upstream from Wyoming-Nebraska State line, and 3 mi (5 km) east of Van Tassel, Wy.

DRAINAGE AREA.--450 mi² (1,170 km²), approximately.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,687.70 ft (1,428.811 m) above mean sea level, datum of 1956.

REMARKS.--Records good. Diversions for irrigation of about 4,700 acres (19.0 km²) above station.

AVERAGE DISCHARGE.--21 years, 4.25 ft³/s (0.120 m³/s), 3,080 acre-ft/yr (3.80 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 800 ft³/s (22.7 m³/s) July 17, 1969, gage height, 6.92 ft (2.109 m) in gage well, 6.75 ft (2.057 m), from floodmarks, from rating curve extended above 63 ft³/s (1.78 m³/s) on basis of computation of peak flow through culvert and over road; minimum daily, 0.54 ft³/s (0.015 m³/s) Aug. 9, 10, 12, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft³/s (0.74 m³/s) June 14 at 2215, gage height, 2.32 ft (0.707 m), no other peak above base of 20 ft³/s (0.57 m³/s); maximum gage height, 5.05 ft (1.539 m) Jan. 2, backwater from snow; minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.6	2.4	2.2	4.1	4.3	2.7	2.5	3.3	1.8	1.6	1.4
2	1.5	1.5	2.7	2.0	4.1	4.0	2.7	5.6	3.0	2.0	1.8	1.3
3	1.5	1.7	2.7	1.8	4.1	3.5	2.7	6.1	2.7	2.4	1.7	1.3
4	1.4	2.8	2.6	2.0	3.8	3.1	3.2	4.6	2.8	2.4	1.4	1.2
5	1.5	2.6	2.6	2.0	3.8	2.7	4.0	3.2	2.7	2.3	1.4	1.2
6	1.5	2.2	2.5	1.8	3.5	2.6	4.4	2.8	2.8	2.2	1.4	1.1
7	1.6	2.0	2.6	1.8	2.8	2.7	4.4	2.7	2.8	2.2	1.3	1.2
8	1.6	1.8	2.6	2.0	2.2	2.9	4.4	2.8	3.0	1.9	1.3	1.3
9	1.7	1.8	2.7	2.6	2.6	2.9	4.2	2.7	3.0	2.0	1.7	1.4
10	1.6	1.8	2.8	3.0	2.3	3.2	3.9	2.7	2.8	1.8	1.5	1.3
11	1.7	1.9	2.8	2.7	2.2	3.2	3.2	2.7	2.4	1.9	1.6	1.3
12	1.7	1.9	3.0	2.7	2.7	3.0	3.1	2.9	2.1	1.7	1.6	1.4
13	1.7	2.0	2.9	2.7	2.4	3.2	3.1	2.9	2.0	2.0	1.6	1.4
14	1.8	2.0	2.7	2.5	2.5	3.2	3.1	2.5	7.2	1.7	1.6	1.4
15	1.8	2.3	2.7	2.6	2.7	3.2	2.7	2.5	13	1.6	1.5	1.4
16	1.7	2.5	2.8	2.6	2.7	3.0	3.9	2.6	6.9	1.6	1.6	1.5
17	1.7	2.6	2.5	2.7	2.7	2.8	5.5	2.2	5.2	1.5	1.7	1.4
18	1.7	2.8	2.4	3.0	3.0	2.8	3.6	1.9	5.1	1.6	1.7	1.4
19	1.6	2.9	2.4	2.7	3.2	2.8	2.9	1.7	4.5	1.5	1.7	1.6
20	1.6	2.6	2.4	2.6	2.9	3.0	3.2	1.8	3.5	2.0	1.6	1.6
21	1.6	2.2	2.6	2.4	2.7	3.0	6.1	2.5	2.6	2.2	1.4	1.5
22	1.5	2.2	2.3	2.3	2.7	3.4	6.5	3.3	2.7	2.3	1.4	1.6
23	1.9	2.4	2.2	2.3	2.7	3.7	5.3	9.1	3.0	1.9	1.3	1.5
24	2.4	2.6	2.1	2.3	2.8	3.7	3.8	12	2.5	1.5	1.3	1.6
25	2.2	4.1	2.2	2.1	3.2	3.4	2.9	5.4	2.1	1.5	1.3	1.8
26	2.7	2.7	2.3	2.0	3.3	3.1	2.8	5.6	1.6	1.4	1.3	1.8
27	2.8	2.6	2.5	1.9	3.5	3.0	3.6	3.9	1.5	1.4	1.4	1.8
28	2.1	2.5	2.6	2.1	3.9	2.8	3.4	2.4	1.5	1.4	1.3	1.7
29	1.9	2.7	2.7	2.3	3.9	2.8	2.8	2.6	1.6	1.4	1.4	1.7
30	1.8	2.9	2.7	2.9	---	2.7	2.8	4.5	1.7	1.4	1.3	1.7
31	1.7	---	2.5	3.8	---	2.7	---	3.9	---	1.4	1.4	---
TOTAL	54.9	70.2	79.5	74.4	89.0	96.4	110.9	114.6	101.6	55.9	46.1	43.8
MEAN	1.77	2.34	2.56	2.40	3.07	3.11	3.70	3.70	3.39	1.80	1.49	1.46
MAX	2.8	4.1	3.0	3.8	4.1	4.3	6.5	12	13	2.4	1.8	1.8
MIN	1.4	1.5	2.1	1.8	2.2	2.6	2.7	1.7	1.5	1.4	1.3	1.1
AC-FT	109	139	158	148	177	191	220	227	202	111	91	87

CAL YR 1975 TOTAL 958.38 MEAN 2.63 MAX 17 MIN .54 AC-FT 1900
WTR YR 1976 TOTAL 937.30 MEAN 2.56 MAX 13 MIN 1.1 AC-FT 1860

NIOBRARA RIVER BASIN

06454100 NIOBRARA RIVER AT AGATE, NE

LOCATION.--Lat 42°25'22", long 103°47'28", in SW1/4 sec.6, T.28 N., R.55 W., Sioux County, Hydrologic Unit 10150002, on right bank 10 ft (3 m) upstream from timber farm-vehicle bridge, 300 ft (91 m) upstream from bridge on State Highway 29, 0.2 mi (0.3 km) northwest of Agate, and 14.5 mi (23.3 km) upstream from Whistle Creek.

DRAINAGE AREA.--840 mi² (2,180 km²), approximately.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,440 ft (1,353 m), from topographic map. Prior to Nov. 3, 1960, nonrecording gage at present site and datum.

REMARKS.--Records good. Diversions for irrigation of about 6,700 acres (27.1 km²) above station.

AVERAGE DISCHARGE.--19 years, 14.4 ft³/s (0.408 m³/s), 10,430 acre-ft/yr (12.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 181 ft³/s (5.13 m³/s) June 23, 1959, gage height, 5.00 ft (1.524 m), from floodmark; minimum daily, 1.0 ft³/s (0.028 m³/s) Mar. 29, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft³/s (0.76 m³/s) Mar. 16, gage height, 2.98 ft (0.908 m), no peak above base of 35 ft³/s (0.99 m³/s); minimum daily, 3.1 ft³/s (0.088 m³/s) Jan. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	11	12	3.4	16	23	18	14	17	5.7	6.9	4.3
2	9.4	12	16	3.1	16	22	17	14	15	5.9	7.8	4.1
3	6.2	12	15	3.4	16	20	16	14	7.9	6.1	7.8	4.4
4	4.9	12	17	3.3	16	20	16	14	5.6	6.1	7.2	4.4
5	4.6	12	16	3.2	17	18	16	14	9.1	5.6	7.0	4.5
6	4.9	12	16	3.6	17	21	16	14	8.1	5.7	6.7	4.9
7	5.3	12	14	6.8	17	21	17	13	6.1	5.8	6.3	5.2
8	5.5	12	16	9.3	17	21	17	13	6.0	5.3	5.9	6.0
9	5.7	11	15	8.8	18	20	17	13	5.9	4.9	6.0	6.1
10	5.7	11	15	8.8	18	21	16	13	4.9	3.8	6.1	5.8
11	6.1	11	15	9.2	18	21	16	13	4.8	3.6	5.9	5.6
12	6.0	11	16	9.7	19	14	15	13	4.3	3.5	5.9	5.7
13	5.6	11	16	10	20	21	15	13	4.4	3.6	5.6	6.2
14	6.1	11	12	11	21	22	16	13	5.6	3.8	5.5	6.3
15	6.4	12	13	11	22	19	15	13	9.5	3.8	5.4	6.5
16	6.2	11	15	11	23	22	16	13	9.0	3.9	5.6	6.7
17	5.9	11	14	11	24	23	18	13	5.3	3.7	5.5	7.1
18	6.3	11	11	12	23	22	17	13	6.9	3.7	5.5	7.9
19	6.1	11	13	14	20	24	16	13	7.1	3.8	5.4	10
20	6.4	11	15	14	20	25	15	13	6.3	4.4	5.6	9.9
21	6.7	11	15	14	19	25	14	14	5.9	11	5.5	9.2
22	7.1	12	15	15	20	23	14	15	6.1	11	5.2	8.8
23	7.5	12	14	15	20	21	13	20	7.7	7.2	5.9	9.0
24	8.0	13	14	15	21	20	13	21	7.6	6.6	6.3	8.6
25	8.5	14	15	15	21	19	13	18	6.8	6.0	6.4	9.0
26	9.8	13	16	14	22	20	14	18	6.2	5.8	6.4	9.2
27	11	14	16	14	23	19	16	15	6.1	5.9	4.8	9.6
28	12	14	16	15	23	18	16	13	5.9	6.4	4.0	9.5
29	11	14	14	15	23	18	15	13	5.8	6.4	4.0	9.5
30	12	12	16	16	---	18	15	16	5.6	6.4	3.9	9.5
31	11	---	9.3	16	---	18	---	18	---	6.5	4.1	---
TOTAL	227.3	357	452.3	330.6	570	639	468	447	212.5	171.9	180.1	213.5
MEAN	7.33	11.9	14.6	10.7	19.7	20.6	15.6	14.4	7.08	5.55	5.81	7.12
MAX	12	14	17	16	24	25	18	21	17	11	7.8	10
MIN	4.6	11	9.3	3.1	16	14	13	13	4.3	3.5	3.9	4.1
AC-FT	451	708	897	656	1130	1270	928	887	421	341	357	423
CAL YR 1975	TOTAL	4404.5	MEAN	12.1	MAX	42	MIN	1.0	AC-FT	8740		
WTR YR 1976	TOTAL	4269.2	MEAN	11.7	MAX	25	MIN	3.1	AC-FT	8470		

NIORARA RIVER BASIN

29

06454500 NIOBRARA RIVER ABOVE BOX BUTTE RESERVOIR, NE

LOCATION.--Lat 42°27'35", long 103°10'15", in NE1/4 sec.27, T.29 N., R.50 W., Dawes County, Hydrologic Unit 10150002, on right bank 1 mi (2 km) upstream from high-water line of Box Butte Reservoir and 6 mi (10 km) east of Harland.

DRAINAGE AREA.--1,400 mi² (3,630 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1946 to current year.

REVISED RECORDS.--WSP 1917: 1951, 1952 (P), 1957 (M).

GAGE.--Water-stage recorder. Concrete control since Oct. 12, 1953. Datum of gage is 4,012.47 ft (1,223.001 m) above mean sea level. Prior to Nov. 27, 1949, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 12,800 acres (51.8 km²) above station.

AVERAGE DISCHARGE.--30 years, 30.5 ft³/s (0.864 m³/s), 22,100 acre-ft/yr (27.2 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,950 ft³/s (140 m³/s) July 28, 1951, gage height, 10.30 ft (3.139 m), from rating curve extended above 230 ft³/s (6.51 m³/s) on basis of step-backwater analysis and slope-area measurement at gage height 9.22 ft (2.810 m); minimum daily, 1.6 ft³/s (0.045 m³/s) Sept. 26, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 72 ft³/s (2.04 m³/s) Feb. 21, gage height, 3.83 ft (1.167 m), no peak above base of 100 ft³/s (2.83 m³/s); maximum gage height, 5.29 ft (1.612 m) Jan. 3, backwater from ice; minimum daily discharge, 5.4 ft³/s (0.15 m³/s) July 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	13	20	20	29	48	40	34	22	9.0	30	7.2
2	7.2	13	27	15	29	48	40	32	22	8.5	22	6.8
3	7.2	13	28	14	31	45	38	33	21	9.0	19	12
4	8.1	13	29	15	24	43	36	33	19	9.0	19	9.9
5	8.5	14	29	16	28	35	36	31	18	9.0	19	9.4
6	8.1	14	29	16	30	40	34	31	16	9.0	19	9.0
7	6.8	14	28	16	35	41	34	30	15	9.0	17	9.0
8	6.8	14	31	16	35	43	36	27	14	8.0	14	9.9
9	6.8	15	31	18	37	48	35	27	13	8.0	8.1	9.9
10	8.1	15	31	20	39	46	33	26	12	8.0	8.5	9.9
11	7.2	15	31	22	41	45	30	25	11	8.0	12	9.9
12	7.2	20	31	20	43	44	28	24	9.9	7.5	9.4	9.9
13	8.1	18	31	18	45	40	26	14	9.9	7.5	9.0	9.9
14	14	23	30	17	46	43	26	16	12	7.2	9.0	10
15	12	24	30	14	48	44	25	18	19	13	9.0	10
16	12	24	29	17	53	43	24	18	20	12	9.4	10
17	12	24	25	19	57	45	31	17	19	11	9.4	9.9
18	13	24	25	22	53	45	31	17	19	10	9.4	9.9
19	13	24	26	22	50	45	33	17	18	10	9.4	12
20	13	20	28	21	51	47	31	18	17	12	9.0	12
21	13	20	28	22	53	47	27	18	17	10	8.5	11
22	13	22	26	24	42	46	19	22	8.5	9.4	8.5	11
23	13	24	27	24	38	45	26	34	10	9.0	8.1	11
24	14	24	27	24	42	44	26	38	11	9.0	8.1	11
25	13	22	26	20	45	44	28	38	11	9.4	7.2	11
26	14	20	26	25	47	43	24	36	11	9.0	6.8	11
27	15	22	27	25	48	42	27	34	11	9.9	7.2	12
28	14	23	27	25	48	41	31	29	11	9.9	7.2	12
29	13	23	28	26	47	41	33	26	11	10	7.2	12
30	13	20	27	27	---	40	34	26	9.9	10	7.2	12
31	13	---	28	27	---	40	---	24	---	5.4	7.2	---
TOTAL	334.3	574	866	627	1214	1351	922	813	438.2	285.7	353.8	310.5
MEAN	10.8	19.1	27.9	20.2	41.9	43.6	30.7	26.2	14.6	9.22	11.4	10.4
MAX	15	24	31	27	57	48	40	38	22	13	30	12
MIN	6.8	13	20	14	24	35	19	14	8.5	5.4	6.8	6.8
AC-FT	663	1140	1720	1240	2410	2680	1830	1610	869	567	702	616
CAL YR 1975	TOTAL	8598.7	MEAN	23.6	MAX	153	MIN	5.0	AC-FT	17060		
WTR YR 1976	TOTAL	8089.5	MEAN	22.1	MAX	57	MIN	5.4	AC-FT	16050		

NIOBRARA RIVER BASIN

06454500 NIOBRARA RIVER ABOVE BOX BUTTE RESERVOIR, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--July 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT 27...	1100	14	422	7.3	7.0	15	12.4	6.2	97	680	8.1
NOV 24...	1100	24	412	7.2	1.0	20	14.2	3.6	23	200	5.7
DEC 22...	1200	21	409	7.2	2.0	15	11.5	--	10	16	5.1
JAN 26...	1250	22	428	7.3	1.0	20	11.3	3.0	2	10	8.3
FEB 23...	1030	32	358	7.2	3.0	15	10.7	2.0	<1	31	5.9
MAR 22...	1100	47	358	7.4	6.0	15	10.4	2.2	<1	9	4.4
APR 26...	1130	23	432	7.4	7.0	20	10.1	1.6	66	54	4.6
MAY 24...	1120	38	452	7.3	10.0	20	8.6	1.9	530	2900	4.8
JUN 22...	1100	7.8	425	7.4	17.0	15	8.2	.8	140	230	7.1
JUL 26...	1045	9.6	414	7.5	18.0	15	8.4	2.2	450	310	5.1
AUG 24...	1130	8.5	400	7.6	19.0	10	9.0	9.4	180	120	4.8
SEP 27...	1115	11	415	7.3	10.0	10	9.8	1.2	48	72	3.9

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT 27...	294	.40	11.6	.93	.02	.30	.32	1.3	.03	.02
NOV 24...	--	.41	19.8	1.4	.00	.59	.59	2.0	.00	.00
DEC 22...	289	.39	16.4	1.3	.01	.21	.22	1.5	.02	.02
JAN 26...	325	.44	19.3	1.3	.01	.70	.71	2.0	.02	.00
FEB 23...	--	.38	23.8	.97	.01	.66	.67	1.6	.01	.00
MAR 22...	281	.38	35.7	.56	.00	.54	.54	1.1	.01	.00
APR 26...	274	.37	17.0	.80	.03	.30	.33	1.1	.04	.03
MAY 24...	--	.41	30.7	.50	.04	.81	.85	1.4	.08	.05
JUN 22...	315	.43	6.63	.94	.06	.34	.40	1.3	.03	.03
JUL 26...	281	.38	7.28	.84	.01	.44	.45	1.3	.05	.01
AUG 24...	--	.36	6.10	.79	.00	.15	.15	.94	.03	.00
SEP 27...	270	.37	8.02	1.0	.04	.22	.26	1.3	.03	.02

NIOBRARA RIVER BASIN

31

06454500 NIOBRARA RIVER ABOVE BOX BUTTE RESERVOIR, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA+MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
NOV 24...	1100	15	180	0	54	9.9	27	.9	8.7	265
FEB 23...	1030	25	160	0	47	10	24	.8	8.7	245
MAY 24...	1120	25	150	0	45	10	37	1.3	8.0	270
AUG 24...	1130	5	150	0	48	8.5	24	.8	6.4	225

DATE	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
NOV 24...	0	217	13	.7	50	300	5	60	0	0
FEB 23...	0	201	16	.7	43	276	--	60	--	--
MAY 24...	0	221	13	.8	47	299	7	60	0	<10
AUG 24...	0	185	14	.7	49	266	--	40	--	--

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
NOV 24...	16	20	1	5	1.6	.0	1.6	2	0	10
FEB 23...	--	30	--	200	--	--	--	--	--	--
MAY 24...	30	70	3	50	<.5	.0	<.5	0	0	60
AUG 24...	--	0	--	40	--	--	--	--	--	--

NIOBRARA RIVER BASIN

06455000 BOX BUTTE RESERVOIR NEAR HEMINGFORD, NE

LOCATION.--Lat 42°27'30", long 103°04'03", in sec.28, T.29 N., R.49 W., Dawes County, Hydrologic Unit 10150002, in control tower on dam near left bank on Niobrara River, 9 mi (14 km) north of Hemingford.

DRAINAGE AREA.--1,460 mi² (3,780 km²), approximately.

PERIOD OF RECORD.--October 1945 to current year.

GAGE.--Electric tape gage read three or more times a month. Datum of gage is at mean sea level.

REMARKS.--Reservoir is formed by earthfill dam; outlet gate first closed Oct. 3, 1945. Usable capacity, 30,420 acre-ft (37.5 hm³) between elevations 3,969.00 ft (1,210 m), sill of outlet gate, and 4,007.00 ft (1,221 m), crest of spillway. Dead storage, 640 acre-ft (0.789 hm³). Figures given herein represent total contents. Water is used for irrigation of Mirage Flats project of Bureau of Reclamation.

COOPERATION.--Records of elevations and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 32,210 acre-ft (39.7 hm³) Mar. 26, 1948, elevation, 4,007.70 ft (1,221.547 m); minimum observed since operation of reservoir began, 764 acre-ft (0.942 hm³) Aug. 23 to Sept. 14, 1976, elevation, 3,969.82 ft (1,210.001 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 14,390 acre-ft (17.7 hm³) June 30, elevation, 3,994.31 ft (1,217.466 m); minimum observed, 764 acre-ft (0.942 hm³) Aug. 23 to Sept. 14, elevation, 3,969.82 ft (1,210.001 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	Date	Elevation (feet) a/	Contents (acre-feet)	Change in contents (acre-feet)
Sept.	30	3,975.60	2,020	-
Oct.	31	3,978.01	2,830	+810
Nov.	30	3,981.10	4,270	+1,440
Dec.	31	3,984.29	6,050	+1,780
CAL YR 1975				-1,410
Jan.	31	3,986.02	7,160	+1,110
Feb.	29	3,988.93	9,360	+2,200
Mar.	31	3,991.73	11,850	+2,490
Apr.	30	3,993.28	13,340	+1,490
May	31	3,994.26	14,340	+1,000
June	30	3,994.31	14,390	+50
July	31	3,982.16	4,830	-9,560
Aug.	31	3,969.82	760	-4,070
Sept.	30	3,972.97	1,370	+610
WTR YR 1976		-	-	-650

a Elevations read on or near last day of month.

NIOBRARA RIVER BASIN

33

06455500 NIOBRARA RIVER BELOW BOX BUTTE RESERVOIR, NE

LOCATION.--Lat 42°27'25", long 103°04'05", in SE1/4 sec.28, T.29 N., R.49 W., Dawes County, Hydrologic Unit 10150003, on left bank 0.2 mi (0.3 km) downstream from Box Butte Reservoir and 9 mi (14 km) north of Hemingford.

DRAINAGE AREA.--1,460 mi² (3,780 km²), approximately.

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Concrete control since Apr. 11, 1953. Datum of gage is 3,950.08 ft (1,203.984 m) above mean sea level.

REMARKS.--Records good except those below 2 ft³/s (0.057 m³/s), which are fair. Flow completely regulated by Box Butte Reservoir (station 06455000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 616 ft³/s (17.4 m³/s) July 2, 1968, gage height, 5.04 ft (1.536 m); minimum daily, 0.10 ft³/s (0.003 m³/s) for many days in 1947, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 223 ft³/s (6.32 m³/s) July 12, gage height, 4.49 ft (1.369 m); minimum daily, 0.66 ft³/s (0.019 m³/s) on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	.71	.68	.83	.80	.83	.86	.98	1.1	10	92	14
2	.74	.71	.71	.83	.83	.83	.86	.98	1.1	59	62	14
3	.77	.71	.68	.83	.83	.83	.86	.95	1.1	1.1	50	14
4	.93	.71	.68	.80	.83	.83	.89	.92	1.1	.95	67	17
5	.74	.71	.66	.80	.77	.83	.86	.95	1.2	70	76	17
6	.74	.71	.66	.77	.80	.83	.98	.95	1.2	82	81	17
7	.71	.71	.66	.74	.80	.83	1.1	.98	1.1	104	85	15
8	.71	.71	.66	.77	.80	.86	1.1	.98	1.1	118	106	16
9	.71	.71	.68	.77	.77	.86	1.1	1.0	1.1	139	164	18
10	.71	.71	.68	.77	.77	.86	1.0	1.0	1.1	158	172	18
11	.68	.68	.68	.77	.80	.86	1.1	.98	1.0	175	180	18
12	.68	.68	.71	.74	.77	.86	.95	.98	1.0	204	186	17
13	.68	.68	.68	.74	.77	.89	.95	1.0	1.0	217	183	17
14	.68	.68	.68	.74	.77	.89	.95	1.0	1.0	217	177	8.8
15	.68	.68	.68	.77	.74	.92	.95	1.1	1.2	207	166	.68
16	.66	.68	.68	.77	.77	.89	1.0	1.1	1.1	204	153	.68
17	.68	.68	.68	.80	.77	.89	1.1	1.1	1.1	201	146	.66
18	.68	.66	.68	.77	.77	.89	1.1	1.0	1.1	198	141	.66
19	.68	.66	.68	.77	.74	.89	1.0	1.0	1.1	195	116	.68
20	.68	.66	.71	.77	.74	.89	1.0	1.1	1.1	186	90	.68
21	.68	.66	.71	.77	.77	.89	1.0	1.1	1.1	166	62	.66
22	.68	.66	.71	.77	.77	.92	1.0	1.2	1.1	164	35	.66
23	.71	.66	.71	.77	.77	.86	1.0	1.5	1.0	158	24	.66
24	.71	.66	.71	.77	.77	.86	.98	1.3	.98	148	20	.66
25	.71	.66	.77	.77	.77	.86	.98	1.2	.95	153	18	.66
26	.77	.66	.77	.77	.77	.86	.98	1.2	.95	164	17	.66
27	.80	.66	.80	.77	.80	.86	1.1	1.2	.95	161	16	.68
28	.77	.68	.77	.74	.80	.86	1.1	1.1	.95	161	15	.68
29	.74	.68	.77	.80	.83	.86	.98	1.2	.95	143	15	.66
30	.71	.68	.77	.80	---	.89	.98	1.2	.92	116	14	.66
31	.71	---	.83	.80	---	.89	---	1.1	---	108	14	---
TOTAL	22.21	20.50	21.93	24.08	22.69	26.87	29.81	33.35	31.75	4388.05	2743	231.48
MEAN	.72	.68	.71	.78	.78	.87	.99	1.08	1.06	142	88.5	7.72
MAX	.93	.71	.83	.83	.83	.92	1.1	1.5	1.2	217	186	18
MIN	.66	.66	.66	.74	.74	.83	.86	.92	.92	.95	14	.66
AC-FT	44	41	43	48	45	53	59	66	63	8700	5440	459
CAL YR 1975	TOTAL	7922.61	MEAN	21.7	MAX	204	MIN	.55	AC-FT	15710		
WTR YR 1976	TOTAL	7595.72	MEAN	20.8	MAX	217	MIN	.66	AC-FT	15070		

NIOBRARA RIVER BASIN

06457500 NIOBRARA RIVER NEAR GORDON, NE

LOCATION.--Lat 42°38'00", long 102°12'40", in NE1/4 sec.26, T.31 N., R.42 W., Sheridan County, Hydrologic Unit 10150003, on left bank 250 ft (76 m) upstream from bridge on State Highway 27, 4 mi (6 km) downstream from Rush Creek, and 11 mi (18 km) south of Gordon.

DRAINAGE AREA.--4,290 mi² (11,100 km²), approximately.

PERIOD OF RECORD.--August 1928 to September 1932, October 1945 to current year. Monthly discharge only for some periods, published in WSP 1309.

REVISED RECORDS.--WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,433.49 ft (1,046.528 m) above mean sea level. Aug. 24, 1928, to June 30, 1932, nonrecording gage at bridge 4 mi (6 km) downstream at different datum. Dec. 3, 1945, to Mar. 24, 1970, water-stage recorder at datum 1.0 ft (0.30 m) higher.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow of stream affected by storage in Box Butte Reservoir (station 06455000) for irrigation of Mirage Flats project and return flow from irrigated land.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,130 ft³/s (259 m³/s) May 21, 1962, gage height, 5.25 ft (1.600 m); minimum daily, 16 ft³/s (0.45 m³/s) Dec. 20, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 237 ft³/s (6.71 m³/s) Mar. 12, gage height, 1.24 ft (0.378 m); maximum gage height, 2.07 ft (0.631 m) Mar. 5, backwater from ice; minimum daily discharge, 55 ft³/s (1.56 m³/s) July 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	92	100	76	130	125	113	143	98	75	78	61
2	82	94	100	80	120	118	112	139	89	76	92	61
3	82	98	105	82	123	102	108	134	82	91	87	59
4	80	96	110	84	92	109	112	130	78	93	74	61
5	83	96	115	86	96	90	110	125	74	83	70	61
6	82	94	115	88	100	100	108	122	74	80	72	61
7	82	92	113	90	110	120	115	118	74	92	67	57
8	80	96	111	92	110	135	141	112	72	91	63	62
9	80	96	116	92	120	134	137	107	70	74	62	69
10	87	96	118	94	125	127	130	103	72	70	61	70
11	88	100	113	94	110	127	123	99	73	67	62	66
12	88	92	111	96	103	125	122	95	71	63	66	65
13	87	105	90	100	95	119	117	95	72	63	64	66
14	88	116	80	110	92	129	113	94	71	69	67	68
15	92	113	82	110	94	119	115	89	83	74	69	69
16	94	111	86	120	96	117	133	93	87	69	95	69
17	96	109	90	125	96	118	146	91	83	67	81	69
18	94	105	90	130	98	115	143	88	86	62	71	69
19	94	103	92	130	98	112	156	85	81	61	78	67
20	94	94	100	126	95	105	162	87	82	68	72	71
21	94	92	110	122	98	107	163	92	79	81	64	73
22	96	90	116	120	115	113	148	99	77	96	60	71
23	96	90	120	120	135	121	151	151	135	73	59	69
24	100	90	120	120	131	118	145	163	130	63	57	72
25	100	80	120	110	120	113	140	143	107	57	60	75
26	103	84	125	100	127	109	139	127	90	55	60	75
27	103	86	130	100	125	109	159	122	86	55	59	75
28	103	90	135	110	130	109	188	112	82	58	60	77
29	94	94	130	120	133	109	178	105	80	78	61	80
30	92	96	109	130	---	109	152	101	76	76	58	78
31	92	---	91	140	---	111	---	102	---	62	61	---
TOTAL	2806	2890	3343	3297	3217	3574	4079	3466	2514	2242	2110	2046
MEAN	90.5	96.3	108	106	111	115	136	112	83.8	72.3	68.1	68.2
MAX	103	116	135	140	135	135	188	163	135	96	95	80
MIN	80	80	80	76	92	90	108	85	70	55	57	57
AC-FT	5570	5730	6630	6540	6380	7090	8090	6870	4990	4450	4190	4060

CAL YR 1975 TOTAL 36542 MEAN 100 MAX 213 MIN 51 AC-FT 72480
WTR YR 1976 TOTAL 35584 MEAN 97.2 MAX 188 MIN 55 AC-FT 70580

06459200 SNAKE RIVER ABOVE MERRITT RESERVOIR, NE

LOCATION.--Lat 42°35'40", long 101°02'20", in NE1/4 sec.11, T.30 N., R.32 W., Cherry County, Hydrologic Unit 10150005, on left bank 5 ft (2 m) upstream from steel piling control, 1,200 ft (366 m) upstream from Shelbourn Bridge, 0.7 mi (1.1 km) northwest of Swanson Camp, 8.5 mi (13.7 km) southeast of headquarters for Nebraska National Forest (Niobrara Division), 10 mi (16 km) upstream from Boardman Creek, and 14.5 mi (23.3 km) upstream from Merritt Dam.

DRAINAGE AREA.--440 mi² (1,140 km²), approximately, of which about 28 mi² (73 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1962 to current year.

REVISED RECORDS.--WDR NE-72: Drainage area.

GAGE.--Water-stage recorder and submerged steel piling control. Datum of gage is 2,952.75 ft (899.998 m) above mean sea level (levels by Bureau of Reclamation).

REMARKS.--Records good except those for winter period, which are fair. Record of water temperatures for the water year 1976 are not published because temperature bulb was buried in the sand and did not record true maximum and minimum water temperature for most days during the year. Periodic temperature and conductance measurements are published in tables for water quality at miscellaneous sites.

AVERAGE DISCHARGE.--14 years, 204 ft³/s (5.777 m³/s), 147,800 acre-ft/yr (0.182 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 637 ft³/s (18.0 m³/s) Aug. 12, 1966, gage height, 2.43 ft (0.741 m); maximum gage height, 6.11 ft (1.862 m) Nov. 25, 1975, backwater from ice; minimum daily discharge, 89 ft³/s (2.52 m³/s) Dec. 13, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since October 1960, 820 ft³/s (23.2 m³/s) June 30, 1962, gage height, 2,953.46 ft (900.215 m) above mean sea level, from high-water profiles at reference point on downstream side of Shelbourn Bridge 1,200 ft (370 m) downstream, result of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 456 ft³/s (12.9 m³/s) July 3 at 1100, gage height, 4.11 ft (1.253 m), no other peak above base of 350 ft³/s (9.91 m³/s); maximum gage height, 6.11 ft (1.862 m) Nov. 25, ice jam; minimum daily discharge, 170 ft³/s (4.81 m³/s) Mar. 3, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	213	220	220	212	179	188	210	196	184	191	177
2	192	224	270	200	215	181	189	193	191	202	196	178
3	195	223	300	190	212	170	181	191	186	337	199	173
4	198	226	300	200	190	175	184	188	181	244	188	177
5	198	223	279	230	195	170	189	188	176	218	192	179
6	195	244	255	225	200	240	192	187	180	205	214	180
7	199	238	239	220	210	223	199	185	181	201	193	180
8	206	227	240	210	220	209	208	188	182	205	184	185
9	197	235	237	215	230	217	201	190	183	197	183	186
10	198	224	235	220	216	214	204	191	182	188	180	189
11	206	214	237	225	217	205	197	191	178	184	176	189
12	213	203	229	230	220	190	194	202	175	180	179	191
13	215	195	229	210	211	180	194	198	173	179	179	189
14	213	200	220	200	222	188	194	189	180	187	180	189
15	218	212	200	210	217	191	187	191	180	191	185	221
16	207	211	210	205	213	198	211	192	186	187	198	202
17	222	208	200	230	205	197	205	190	188	188	198	199
18	208	212	220	240	193	201	209	185	187	186	191	195
19	212	219	240	230	183	206	213	186	188	185	182	193
20	215	210	240	237	184	206	221	188	189	191	176	192
21	213	210	235	232	187	191	211	192	188	194	176	189
22	218	200	230	232	174	191	200	205	187	193	178	189
23	219	190	235	228	179	192	208	267	212	188	176	188
24	244	200	230	222	192	198	194	278	223	181	173	188
25	222	180	235	225	193	194	185	257	210	180	177	192
26	219	190	226	200	198	191	186	253	196	184	180	194
27	222	200	226	219	193	186	200	233	192	188	179	190
28	233	210	232	211	186	191	219	215	191	185	174	185
29	219	210	224	215	183	191	218	204	188	217	176	188
30	234	210	220	216	---	186	224	198	187	207	174	189
31	216	---	222	220	---	186	---	197	---	191	174	---
TOTAL	6561	6361	7315	6767	5850	6037	6005	6322	5636	6147	5701	5656
MEAN	212	212	236	218	202	195	200	204	188	198	184	189
MAX	244	244	300	240	230	240	224	278	223	337	214	221
MIN	192	180	200	190	174	170	181	185	173	179	173	173
AC-FT	13010	12620	14510	13420	11600	11970	11910	12540	11180	12190	11310	11220

CAL YR 1975 TOTAL 76657 MEAN 210 MAX 339 MIN 150 AC-FT 152000
WTR YR 1976 TOTAL 74358 MEAN 203 MAX 337 MIN 170 AC-FT 147500

NIOBRARA RIVER BASIN

06459300 MERRITT RESERVOIR NEAR BURGE, NE

LOCATION.--Lat 42°38'06", long 100°52'18", in SW1/4NW1/4 sec.29, T.31 N., R.30 W., Cherry County, Hydrologic Unit 10150005, in control house of outlet works of Merritt Dam, 8.1 mi (13.0 km) southwest of Burge and 23 mi (37 km) southwest of Valentine.

DRAINAGE AREA.--640 mi² (1,660 km²), approximately, of which about 44 mi² (110 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--February 1964 to current year.

REVISED RECORDS.--WDR NE-67: Drainage area.

GAGE.--Direct reading, single vertical column, mercury-well type manometer read once daily. Datum of gage is at mean sea level.

REMARKS.--Reservoir is formed by earthfill dam; storage began Feb. 19, 1964. Usable capacity, 72,872 acre-ft (89.9 hm³) between elevations 2,875.0 ft (876 m), sill of canal outlet works, and 2,946.0 ft (898 m), crest of spillway. Dead and inactive storage, 1,614 acre-ft (1.99 hm³) below elevation 2,875.0 ft (876 m). Figures given herein represent total contents. Water is used for irrigation of Ainsworth Unit of Bureau of Reclamation.

COCFEATION.--Records of elevation and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 76,840 acre-ft (94.7 hm³) May 4, 1971, May 28 to June 2, 1976, elevation 2,946.8 ft (898.18 m); minimum since appreciable storage was attained, 20,060 acre-ft (24.7 hm³) Oct. 1, 1968, elevation, 2,916.1 ft (888.83 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 76,840 acre-ft (94.7 hm³) May 28 to June 2, elevation, 2,946.8 ft (898.18 m); minimum observed, 31,240 acre-ft (38.5 hm³) Sept. 8, 9, elevation, 2,925.6 ft (891.72 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	2,929.6	37,330	-
Oct. 31	2,937.0	51,440	+14,110
Nov. 30	2,940.8	60,410	+8,970
Dec. 31	2,941.2	61,420	+1,010
CAL YR 1975	-	-	+250
Jan. 31	2,941.2	61,420	0
Feb. 29	2,941.8	62,960	+1,540
Mar. 31	2,946.3	75,370	+12,410
Apr. 30	2,946.1	74,780	-590
May 31	2,946.8	76,840	+2,060
June 30	2,945.3	72,480	-4,360
July 31	2,935.9	49,070	-23,410
Aug. 31	2,927.4	33,860	-15,210
Sept. 30	2,930.0	37,980	+4,120
WTR YR 1976	-	-	+650

NIOBRARA RIVER BASIN

37

06459500 SNAKE RIVER NEAR BURGE, NE

LOCATION.--Lat 42°39'15", long 100°51'28", in NE1/4 sec.20, T.31 N., R.30 W., Cherry County, Hydrologic Unit 10150005, on right bank 150 ft (46 m) downstream from Nebraska National Forest boundary, 2.1 mi (3.4 km) downstream from Merritt Dam, 6.5 mi (10.5 km) southwest of Burge, and 22 mi (35 km) southwest of Valentine.

DRAINAGE AREA.--660 mi² (1,710 km²), approximately, of which about 44 mi² (110 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--June 1947 to current year.

REVISED RECORDS.--WSP 1279: 1950(M), 1951(P). WDR NE-67,72: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,805.36 ft (855.074 m) above mean sea level, (levels by Bureau of Reclamation).

REMARKS.--Records good. Natural flow affected by storage in Merritt Reservoir (station 06459300) 2.1 mi (3.4 km) upstream.

AVERAGE DISCHARGE.--13 years (1963-76), 151 ft³/s (4.276 m³/s), 109,400 acre-ft/yr (0.135 km³/yr), since storage and diversion began.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,170 ft³/s (89.8 m³/s) Feb. 7, 1963, gage height, 6.96 ft (2.121 m), release of storage behind temporary construction dike, from rating curve extended above 520 ft³/s (14.7 m³/s) on basis of slope-area measurement at gage height 5.39 ft (1.643 m); minimum daily, 5.8 ft³/s (0.16 m³/s) May 24-27, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 294 ft³/s (8.33 m³/s) Apr. 9, gage height, 2.18 ft (0.664 m); minimum daily, 12 ft³/s (0.34 m³/s) Oct. 1, 3, 4, Oct. 28 to Nov. 5, Mar. 1, 3-11, 14-16, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	202	248	263	12	117	238	155	15	16	15
2	13	12	202	244	266	13	211	214	148	16	16	15
3	12	12	202	244	266	12	259	137	135	16	15	15
4	12	12	202	244	266	12	252	133	127	16	15	15
5	13	12	202	220	263	12	248	95	113	16	17	15
6	13	13	202	211	259	12	248	24	103	16	16	15
7	13	13	202	211	255	12	245	32	101	16	15	15
8	13	13	202	211	259	12	245	41	95	16	15	15
9	13	13	202	210	259	12	263	46	87	16	15	15
10	13	13	202	208	259	12	241	50	81	16	15	15
11	13	13	202	208	259	12	238	63	75	16	15	15
12	13	13	202	211	255	13	248	68	66	16	16	15
13	13	13	202	210	252	13	241	72	58	16	15	15
14	13	13	202	215	252	12	235	79	58	16	15	15
15	13	13	202	215	252	12	238	85	47	16	15	15
16	13	13	202	215	252	12	255	95	46	16	15	15
17	14	13	202	215	252	13	238	97	44	16	15	15
18	14	13	202	215	252	13	235	107	42	16	15	15
19	14	14	220	220	252	13	238	91	42	15	15	16
20	14	13	255	220	255	14	241	85	43	16	15	16
21	14	105	266	220	252	14	241	81	37	16	15	16
22	14	238	266	220	252	14	241	81	32	16	15	16
23	14	218	266	225	252	46	241	95	20	16	15	16
24	14	205	258	225	252	68	241	115	15	16	15	15
25	13	205	258	225	252	72	238	129	15	16	16	17
26	13	202	258	225	161	70	241	135	15	16	15	16
27	13	202	255	227	14	79	238	145	15	16	15	16
28	12	202	252	228	13	77	238	148	15	16	15	16
29	12	202	252	252	13	85	238	148	15	16	15	15
30	12	202	248	263	---	95	238	150	15	16	15	12
31	12	---	248	263	---	105	---	150	---	16	15	---
TOTAL	404	2237	6938	6968	6609	973	7131	3229	1860	494	472	457
MEAN	13.0	74.6	224	225	228	31.4	238	104	62.0	15.9	15.2	15.2
MAX	14	238	266	263	266	105	263	238	155	16	17	17
MIN	12	12	202	208	13	12	117	24	15	15	15	12
AC-FT	801	4440	13760	13820	13110	1930	14140	6400	3690	980	936	906
CAL YR 1975	TOTAL	43053	MEAN 118	MAX 266	MIN 12	AC-FT	85400					
WTR YR 1976	TOTAL	37772	MEAN 103	MAX 266	MIN 12	AC-FT	74920					

NIOBRARA RIVER BASIN

C6461000 MINNECHADUZA CREEK AT VALENTINE, NE

LOCATION.--Lat 42°53'10", long 100°33'10", in SW1/4 sec.30, T.34 N., R.27 W., Cherry County, Hydrologic Unit 10150004, on right bank 500 ft (152 m) downstream from powerplant in city park at north edge of Valentine and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--390 mi² (1,010 km²), approximately, of which about 200 mi² (520 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--December 1947 to current year.

REVISED RECORDS.--WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 2,470 ft (753 m), from topographic map.

REMARKS.--Records good. Flow regulated by powerplant 500 ft (152 m) above station.

AVERAGE DISCHARGE.--28 years (1948-76), 33.5 ft³/s (0.949 m³/s), 24,270 acre-ft/yr (29.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft³/s (31.2 m³/s) Mar. 22, 1960, gage height, 8.00 ft (2.438 m); minimum daily, 2.6 ft³/s (0.074 m³/s) Feb. 22, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 135 ft³/s (3.82 m³/s) Oct. 14, Mar. 14, gage height, 2.44 ft (0.744 m), but may have been exceeded on May 30 when municipal water supply tank ruptured; maximum gage height recorded, 3.05 ft (0.930 m) June 2; minimum daily discharge, 4.9 ft³/s (0.14 m³/s) Nov. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	21	24	27	36	39	25	27	15	8.9	5.8	7.8
2	20	20	19	5.1	33	22	23	32	16	18	15	6.3
3	16	26	19	9.7	29	21	30	25	19	23	10	7.6
4	15	20	25	25	24	23	23	25	15	22	9.6	6.5
5	20	22	35	34	12	23	24	25	17	22	9.7	6.2
6	24	24	31	21	26	24	25	16	15	21	15	6.1
7	9.4	25	28	22	30	35	30	33	8.8	8.0	14	8.0
8	15	18	38	18	30	39	24	25	9.0	8.0	8.8	6.3
9	19	17	34	20	38	37	40	26	6.6	7.8	13	10
10	15	29	31	14	44	28	24	19	13	12	11	13
11	20	16	36	24	30	38	29	20	8.8	8.2	8.7	5.8
12	9.9	28	39	18	37	29	35	25	9.8	8.4	14	9.7
13	25	24	20	22	37	14	25	20	9.7	8.3	11	9.8
14	21	23	16	18	28	51	30	23	8.9	8.4	11	7.7
15	16	20	13	25	49	37	29	16	14	11	9.3	12
16	18	25	30	24	38	37	30	25	14	11	8.0	7.0
17	21	25	28	19	41	32	21	21	9.9	11	10	12
18	10	24	23	26	42	38	38	17	13	13	11	14
19	20	24	15	33	38	34	24	25	13	11	10	15
20	16	23	27	32	39	33	35	18	10	8.2	8.1	5.8
21	27	9.8	28	31	33	34	29	16	8.6	11	8.8	8.9
22	19	4.9	28	35	25	33	33	24	9.5	10	8.8	15
23	14	25	23	24	39	28	30	29	10	10	6.5	8.8
24	25	34	21	33	38	28	30	24	10	9.6	7.9	13
25	20	19	25	31	38	36	33	36	10	7.8	6.0	18
26	19	23	21	31	24	33	30	30	10	10	6.0	25
27	26	9.4	31	14	48	27	29	25	11	8.9	8.2	8.3
28	24	28	21	35	20	21	30	24	6.6	6.7	6.0	9.4
29	25	24	28	34	28	34	30	25	7.9	10	6.0	15
30	20	25	33	43	---	25	29	19	8.2	10	8.2	23
31	24	---	29	20	---	24	---	30	---	13	6.3	---
TOTAL	583.3	656.1	819	767.8	974	957	867	745	337.3	356.2	291.7	321.0
MEAN	18.8	21.9	26.4	24.8	33.6	30.9	28.9	24.0	11.2	11.5	9.41	10.7
MAX	27	34	39	43	49	51	40	36	19	23	15	25
MIN	9.4	4.9	13	5.1	12	14	21	16	6.6	6.7	5.8	5.8
AC-FT	1160	1300	1620	1520	1930	1900	1720	1480	669	707	579	637
CAL YR 1975	TOTAL	8772.9	MEAN	24.0	MAX	110	MIN	4.3	AC-FT	17400		
WTR YR 1976	TOTAL	7675.4	MEAN	21.0	MAX	51	MIN	4.9	AC-FT	15220		

NIOBRARA RIVER BASIN

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06461500 NIOBRARA RIVER NEAR SPARKS, NE

LOCATION.--Lat 42°54'10", long 100°21'40", in SE1/4 sec.22, T.34 N., R.26 W., Cherry County, Hydrologic Unit 10150004, on left bank 18 ft (5 m) downstream from highway bridge, 2.2 mi (3.5 km) downstream from Big Beaver Creek, 5.5 mi (8.8 km) downstream from Minnechadua Creek, and 6.5 mi (10.5 km) southwest of Sparks.

DRAINAGE AREA.--8,090 mi² (21,000 km²), approximately.

PERIOD OF RECORD.--October 1945 to current year. Monthly discharge only for some periods, published in WSP 1309.

REVISED RECCRDS.--WSP 1209: 1947(M), 1948-50(P). WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,287.57 ft (697.251 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by irrigation and power developments, storage in Box Butte Reservoir (station 06455000), and since May 1964 by storage in Merritt Reservoir (station 06459300). Periodic temperature and conductance measurements are published in tables for water quality at miscellaneous sites.

AVERAGE DISCHARGE.--31 years, 786 ft³/s (22.26 m³/s), 569,500 acre-ft/yr (0.702 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft³/s (289 m³/s) Mar. 5, 1949, gage height, 6.73 ft (2.051 m), from rating curve extended above 3,800 ft³/s (108 m³/s); maximum gage height recorded, 10.06 ft (3.066 m) Feb. 7, 1973, ice jam; minimum daily discharge, 100 ft³/s (2.83 m³/s) Jan. 10, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,830 ft³/s (51.8 m³/s) Feb. 9, gage height, 3.66 ft (1.116 m); minimum daily, 350 ft³/s (9.91 m³/s) Nov. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	470	537	560	600	1020	520	620	863	634	415	493	404
2	477	533	620	460	1030	520	626	843	626	759	526	400
3	480	548	700	420	945	500	832	744	614	599	477	379
4	481	534	760	420	874	470	769	682	596	720	485	384
5	485	552	740	480	552	380	750	682	574	555	507	381
6	490	560	700	600	589	430	778	641	559	508	690	387
7	474	560	720	560	749	599	835	568	552	456	604	378
8	467	544	720	480	874	816	834	576	550	438	475	422
9	489	561	760	580	1180	697	839	597	540	451	470	403
10	490	561	700	660	1220	600	800	594	549	444	454	417
11	490	552	620	676	993	600	828	604	536	445	440	410
12	489	561	560	708	945	600	834	630	502	418	448	415
13	517	552	480	739	933	600	766	629	491	413	461	423
14	522	544	420	782	936	580	775	606	482	440	461	417
15	515	544	460	793	956	620	772	566	499	437	458	492
16	504	570	440	816	903	599	827	588	472	438	489	584
17	523	570	420	828	884	570	857	556	466	430	479	462
18	510	592	480	850	869	552	860	548	479	461	466	444
19	515	599	540	862	836	561	829	564	469	436	480	445
20	517	540	560	909	841	608	924	540	446	441	439	437
21	541	500	580	969	852	589	853	520	446	450	425	426
22	536	520	560	1040	795	561	829	544	439	438	447	434
23	536	540	540	1040	806	552	864	731	453	450	435	410
24	630	480	560	1020	786	618	886	851	493	562	412	436
25	613	400	580	969	791	628	837	829	491	448	424	494
26	572	350	600	909	761	618	813	772	493	437	427	488
27	555	380	620	850	620	618	862	688	474	432	416	445
28	541	400	620	921	502	618	881	672	442	452	415	437
29	559	440	620	1040	520	626	934	666	421	471	407	445
30	553	490	620	1020	---	633	889	656	418	497	400	453
31	551	---	620	981	---	630	---	652	---	480	397	---
TOTAL	16092	15614	18480	23982	24562	18113	24603	20202	15206	14821	14407	12952
MEAN	519	520	596	774	847	584	820	652	507	478	465	432
MAX	630	599	760	1040	1220	816	934	863	634	759	690	584
MIN	467	350	420	420	502	380	620	520	418	413	397	378
AC-FT	31920	30970	36660	47570	48720	35930	48800	40070	30160	29400	28580	25690

CAL YR 1975 TOTAL 218668 MEAN 599 MAX 1030 MIN 260 AC-FT 433700
 WTB YR 1976 TOTAL 219034 MEAN 598 MAX 1220 MIN 350 AC-FT 434500

NIOBRARA RIVER BASIN

06462000 NIOBRARA RIVER NEAR NORDEN, NE

LOCATION.--Lat 42°47'13", long 100°02'06", in N1/2SW1/4 sec.33, T.33 N., R.23 W., Keya Paha County, Hydrologic Unit 10150004, on left bank 60 ft (18 m) downstream from county road bridge, 1.5 mi (2.4 km) downstream from Fairfield Creek, and 6 mi (10 km) south of Norden.

DRAINAGE AREA.--8,390 mi² (21,700 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,109.93 ft (643.107 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are fair. Flow affected by regulation at powerplants, diversions for irrigation, return flow from irrigated areas, storage in Box Butte Reservoir (station 06455000), and since May 1964 storage in Merritt Reservoir (station 06459300).

AVERAGE DISCHARGE.--24 years, 868 ft³/s (24.58 m³/s), 628,900 acre-ft/yr (0.775 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,380 ft³/s (209 m³/s) July 1, 1962, gage height, 7.10 ft (2.164 m), backwater from bridge in channel; maximum gage height, 10.24 ft (3.121 m) Mar. 11, 1966, ice jam and backwater from bridge in channel; minimum daily discharge, 130 ft³/s (3.68 m³/s) Jan. 10, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,630 ft³/s (46.2 m³/s) Feb. 10, gage height, 2.32 ft (0.707 m); maximum gage height, 3.74 ft (1.140 m) Jan. 11, backwater from ice; minimum daily discharge, 430 ft³/s (12.2 m³/s) Dec. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	615	651	640	780	1020	640	757	1040	816	484	536	481
2	574	656	680	660	1050	640	775	974	775	689	536	477
3	589	675	760	580	1050	580	949	913	764	767	512	477
4	594	631	920	560	1000	530	952	764	756	782	492	470
5	620	650	860	660	700	500	917	764	711	726	506	469
6	599	655	820	640	760	540	946	789	680	626	649	453
7	589	662	840	620	900	734	1010	657	651	558	659	465
8	570	665	860	600	1020	964	1030	625	623	511	531	506
9	584	654	900	720	1180	1130	1010	640	605	510	489	465
10	604	663	920	800	1400	834	987	647	587	507	475	510
11	599	672	900	860	1150	840	982	630	598	504	455	541
12	610	657	720	900	1150	803	992	696	553	482	450	502
13	584	682	720	920	1260	835	970	718	545	468	496	532
14	615	648	430	940	1230	729	967	693	543	504	514	528
15	599	632	460	960	1260	897	929	663	574	515	468	577
16	599	647	450	1020	1120	813	997	678	560	494	500	684
17	614	660	440	1060	1050	823	1040	686	536	488	500	624
18	612	690	520	1080	1040	782	1030	663	539	498	485	600
19	600	703	580	1080	1020	777	1050	657	537	483	469	650
20	619	674	660	1100	980	779	1110	660	522	477	468	583
21	622	580	700	1140	940	816	1050	653	516	489	449	565
22	647	540	680	1200	960	746	991	683	503	482	454	565
23	636	560	640	1160	965	727	1030	872	535	478	459	547
24	724	520	660	1100	972	767	1050	1010	563	561	452	603
25	742	540	720	1040	972	823	1030	1000	570	513	447	612
26	676	450	740	1000	958	788	923	995	568	487	462	703
27	648	500	780	1060	824	789	1010	910	559	471	456	624
28	655	490	780	1120	663	785	1040	852	530	487	465	585
29	666	580	780	1160	652	777	1080	846	498	528	459	579
30	665	600	800	1040	---	785	1090	852	487	519	454	587
31	662	---	800	999	---	777	---	818	---	506	473	---
TOTAL	19332	18587	22160	28559	29246	23750	29694	24048	17804	16594	15220	16564
MEAN	624	620	715	921	1008	766	990	776	593	535	491	552
MAX	742	703	920	1200	1400	1130	1110	1040	816	782	659	703
MIN	570	450	430	560	652	500	757	625	487	468	447	453
AC-FT	38350	36870	43950	56650	58010	47110	58900	47700	35310	32910	30190	32850
CAL YR 1975	TOTAL	249042	MEAN 682	MAX 1370	MIN 320	AC-FT 494000						
WTE YR 1976	TOTAL	261558	MEAN 715	MAX 1400	MIN 430	AC-FT 518800						

06462000 NIOBRARA RIVER NEAR NORDEN, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-66, 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1974 to current year.

WATER TEMPERATURES: August 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 489 micromhos June 29, 1976; minimum daily, 177 micromhos July 30, 1976.

WATER TEMPERATURES: Maximum, 27.0°C June 27, 28, 29, July 1, 2, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 489 micromhos June 29; minimum daily, 177 micromhos July 30.

WATER TEMPERATURES: Maximum, 26.5°C June 13, July 11, 12, 23; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	HARDNESS (CA, MG) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	DISSOLVED MAGNESIUM (MG/L) (00925)
OCT 17...	1110	632	229	7.8	11.0	5	99	0	32	4.6
NOV 06...	1030	656	237	7.8	11.5	5	110	0	35	4.8
DEC 04...	1025	894	203	7.4	.5	7	95	0	31	4.2
JAN 07...	1330	665	259	7.2	.0	5	120	0	39	4.8
FEB 18...	1050	1040	223	7.6	4.0	12	96	0	30	5.1
MAR 10...	1040	762	209	7.5	4.0	3	96	0	31	4.5
APR 21...	1030	1020	207	7.7	14.5	6	95	0	30	4.8
MAY 13...	1100	696	211	7.8	12.5	2	100	0	33	4.4
JUN 23...	1040	500	225	8.1	21.5	1	92	0	30	4.2
JUL 15...	1055	558	208	7.9	23.0	7	96	0	32	4.0
AUG 05...	1010	515	215	7.9	20.5	22	93	0	31	3.7
SEP 15...	1120	569	219	7.9	20.0	12	91	0	30	4.0

DATE	DISSOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CaCO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	DISSOLVED FLUORIDE (F) (MG/L) (00950)
OCT 17...	9.6	.4	6.1	143	0	117	6.5	1.3	.4
NOV 06...	9.9	.4	6.9	147	0	121	7.6	1.8	.4
DEC 04...	9.2	.4	6.0	133	0	109	5.0	.9	.3
JAN 07...	9.4	.4	7.8	162	0	133	12	1.9	.3
FEB 18...	8.8	.4	6.9	131	0	107	7.7	2.0	.4
MAR 10...	9.4	.4	6.7	139	0	114	7.9	.7	.4
APR 21...	8.9	.4	6.8	136	0	112	6.9	1.1	.3
MAY 13...	9.7	.4	6.0	144	0	118	6.7	1.6	.3
JUN 23...	9.3	.4	6.7	136	0	112	2.4	3.2	.4
JUL 15...	9.2	.4	6.6	137	0	112	8.1	1.4	.4
AUG 05...	9.4	.4	6.5	132	0	108	9.2	1.2	.4
SEP 15...	9.3	.4	6.5	136	0	112	7.4	.3	.4

NIOBRARA RIVER BASIN

06462000 NIOBRARA RIVER NEAR NORDEN, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SILICA (SI02) (00955)	DIS- SOLVED (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED (TONS PER AC-FT) (70303)	DIS- SOLVED (TONS PER DAY) (70302)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
OCT 17...	47	179	.24	306	.16	.07	30	10	10
NOV 06...	50	190	.26	337	.27	.03	30	10	10
DEC 04...	53	178	.24	430	.51	.10	40	40	0
JAN 07...	60	218	.30	391	.58	.10	30	30	20
FEB 18...	50	178	.24	500	.50	.09	20	10	0
MAR 10...	51	184	.25	379	.77	.06	30	20	10
APR 21...	47	174	.24	479	.20	.07	0	20	10
MAY 13...	52	185	.25	348	.05	.04	30	10	0
JUN 23...	58	181	.25	244	.01	.06	20	40	4
JUL 15...	56	185	.25	279	.01	.01	30	20	0
AUG 05...	56	183	.25	254	.01	.01	30	20	0
SEP 15...	51	176	.24	270	.07	.03	30	10	10

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	249	245	288	221	195	243	268	187	249	235	238
2	231	244	241	260	217	252	246	244	188	243	232	232
3	230	240	231	262	220	258	248	251	188	256	237	230
4	232	242	223	263	255	256	243	244	186	239	229	232
5	230	238	225	266	248	270	241	244	243	242	233	234
6	229	239	229	256	222	247	239	245	193	248	234	233
7	230	239	231	238	252	256	246	241	245	246	225	236
8	235	245	228	253	219	238	234	251	237	237	235	235
9	234	239	229	262	239	232	235	251	237	232	235	233
10	236	245	227	257	215	250	224	253	239	237	231	213
11	232	249	231	239	219	249	230	253	240	244	229	231
12	237	244	227	234	219	253	233	242	234	228	230	230
13	236	251	241	226	215	257	241	241	239	228	247	230
14	238	249	261	232	222	202	242	244	242	239	277	230
15	234	242	255	237	229	269	242	250	242	238	231	230
16	240	263	255	228	228	257	244	247	243	237	230	226
17	234	242	252	216	230	249	236	246	241	238	230	228
18	235	251	267	231	234	249	229	245	234	235	230	230
19	232	247	253	213	232	254	238	240	185	237	238	226
20	233	240	262	234	232	258	237	242	237	234	232	195
21	232	265	239	232	236	251	240	240	489	234	230	231
22	230	240	238	219	228	259	240	245	238	242	225	237
23	233	251	247	215	233	258	238	240	233	236	227	232
24	238	233	240	221	233	255	240	234	258	235	233	227
25	242	241	236	219	239	252	240	238	236	238	241	233
26	244	253	235	237	234	254	244	242	246	238	234	227
27	249	255	230	229	233	251	240	241	243	224	231	233
28	234	255	239	230	246	248	233	194	265	222	235	231
29	239	243	228	222	189	254	237	194	237	221	237	231
30	238	238	236	219	---	251	235	230	234	177	233	238
31	233	---	232	220	---	249	---	196	---	228	230	---
MONTH	235	246	239	237	229	249	239	240	239	235	234	230

NIOBRARA RIVER BASIN

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06462000 NIOBRARA RIVER NEAR NORDEN, NE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	6.0	0.5	0.0	2.0	3.0	8.0	10.0	18.0	20.0	20.0	18.0
2	9.0	7.0	1.0	0.0	0.0	1.0	8.5	8.0	17.0	19.0	19.0	18.0
3	10.5	7.5	1.5	0.0	1.0	0.0	5.0	7.5	18.0	17.0	20.0	18.0
4	12.0	6.5	1.0	0.0	0.0	1.0	5.0	10.0	18.0	18.0	21.0	17.5
5	13.0	7.5	1.0	0.0	0.0	0.0	5.0	12.0	18.0	21.0	20.5	17.0
6	12.5	7.0	1.5	0.0	0.0	2.0	7.0	9.0	20.0	23.0	20.0	19.0
7	13.5	7.5	0.5	0.0	1.0	2.5	8.0	10.0	21.0	25.0	20.0	20.5
8	13.0	8.0	1.5	0.5	1.0	2.0	7.0	12.0	23.0	23.5	22.0	15.0
9	8.0	8.0	3.0	0.5	2.0	3.0	6.0	14.0	23.0	24.0	21.0	14.0
10	9.0	4.0	3.0	0.5	1.0	3.0	8.5	15.0	25.0	25.0	21.0	18.0
11	9.5	5.0	1.0	0.5	0.5	5.0	8.5	15.0	24.0	25.5	24.0	5.0
12	9.0	1.0	0.5	1.0	1.5	0.5	9.0	13.0	25.0	26.0	21.0	19.5
13	8.0	2.0	1.0	1.0	2.0	0.5	11.0	12.0	26.0	26.0	21.0	20.5
14	8.5	1.0	2.0	1.5	2.5	4.0	11.0	12.0	20.0	23.0	22.0	17.5
15	6.5	5.0	1.0	2.0	3.0	4.0	13.0	22.0	19.0	20.0	19.5	19.0
16	9.0	4.0	1.0	2.0	4.5	2.5	12.0	12.0	17.0	21.0	21.0	18.5
17	7.0	3.0	0.0	2.0	5.0	3.0	10.0	13.0	17.0	23.0	21.0	24.0
18	8.0	3.0	0.0	2.0	3.0	7.5	10.0	14.0	15.0	22.0	22.0	19.0
19	9.0	2.0	1.0	1.0	2.0	4.5	11.0	17.0	13.0	24.0	22.0	17.0
20	7.5	2.0	2.0	0.5	3.0	7.0	10.0	19.0	17.0	22.0	22.0	16.0
21	8.0	1.5	0.5	1.5	0.0	6.0	10.0	19.0	22.0	23.0	22.0	17.0
22	7.0	0.5	1.0	1.0	0.5	4.5	12.0	16.0	23.0	24.0	23.0	22.0
23	6.0	1.0	1.0	1.0	3.0	7.0	15.0	13.0	20.0	26.0	22.0	12.5
24	4.5	0.0	3.0	1.0	3.5	6.0	12.0	13.0	17.0	24.0	21.0	14.0
25	8.0	0.5	1.5	0.0	4.0	9.0	8.0	13.0	16.0	24.0	22.0	15.0
26	7.5	0.0	1.0	2.0	5.0	7.0	8.5	13.0	19.0	24.0	20.0	14.0
27	8.0	1.5	1.5	1.5	6.0	7.0	8.0	18.0	17.0	23.5	18.0	9.0
28	6.5	1.0	3.0	2.0	3.5	7.0	8.0	19.0	19.0	23.0	16.0	8.0
29	5.0	1.0	1.5	1.0	2.0	8.0	8.0	19.0	19.5	22.0	20.0	9.0
30	5.0	0.0	1.5	3.0	---	5.5	8.5	14.0	19.5	21.0	18.0	14.0
31	7.5	---	3.0	0.0	---	7.5	---	16.0	---	23.0	19.5	---
MONTH	8.5	3.5	1.5	1.0	2.0	4.0	9.0	14.0	19.5	23.0	20.5	16.0

NIOBRARA RIVER BASIN

06463500 LONG PINE CREEK NEAR RIVERVIEW, NE

LOCATION.--Lat 42°41'20", long 99°41'20", in N1/2 sec.5, T.31 N., R.20 W., Brown County, Hydrologic Unit 10150004, on right bank 7 ft (2 m) downstream from county road bridge, 1 mi (2 km) downstream from Bone Creek, and 5.5 mi (8.8 km) southwest of Riverview.

DRAINAGE AREA.--390 mi² (1,010 km²), approximately.

PERIOD OF RECORD.--April 1948 to January 1954, September 1954 to current year.

REVISED RECORDS.--WSP 1729: 1952(M).

GAGE.--Water-stage recorder. Datum of gage is 1,983.34 ft (604.522 m) above mean sea level, (levels by Bureau of Reclamation). Prior to Dec. 7, 1962, at site 100 ft (30 m) upstream at present datum.

REMARKS.--Records good except those above 250 ft³/s (7.08 m³/s), which are poor.

AVERAGE DISCHARGE.--27 years (1948-53, 1954-76), 134 ft³/s (3.795 m³/s), 97,080 acre-ft/yr (0.120 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,650 ft³/s (273 m³/s) July 1, 1962, gage height, 15.68 ft (4.779 m), backwater from fallen bridge, from rating curve extended above 3,600 ft³/s (102 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 44 ft³/s (1.25 m³/s) Jan. 10, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Aug. 12	2400	*516	14.6	4.46	1.359
Aug. 14	0730	450	12.7	4.29	1.308

Minimum daily, 107 ft³/s (3.03 m³/s) July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	125	135	130	141	134	133	127	140	161	154	135
2	138	125	138	118	138	139	132	123	137	182	152	132
3	142	133	140	114	135	125	131	123	142	213	142	134
4	139	140	142	110	120	130	132	124	142	186	137	124
5	138	131	147	127	124	130	133	174	132	167	145	127
6	136	134	137	127	123	137	133	160	141	166	191	130
7	134	134	134	125	127	139	137	139	146	141	209	142
8	134	133	134	120	131	145	139	142	144	146	167	167
9	131	133	134	124	140	152	135	160	142	123	142	169
10	129	132	134	127	146	160	134	171	145	115	124	158
11	128	131	132	122	140	156	133	167	174	121	130	155
12	127	129	127	122	144	143	130	157	157	121	159	153
13	127	131	127	124	148	140	130	158	157	118	198	150
14	126	135	113	120	141	148	137	152	147	122	225	134
15	121	135	120	124	142	143	134	138	154	125	178	134
16	122	134	118	124	140	141	148	137	154	114	178	132
17	123	135	114	127	138	141	142	136	155	110	167	127
18	124	133	110	131	137	141	147	125	152	109	145	132
19	124	145	124	130	133	145	148	122	152	107	134	140
20	124	130	120	123	138	144	162	130	152	111	132	137
21	123	125	120	125	126	141	147	140	142	114	132	140
22	122	129	120	125	135	137	137	146	137	123	150	134
23	128	133	118	131	138	137	137	182	169	120	137	134
24	136	133	118	129	148	136	135	179	226	114	127	145
25	129	132	120	128	147	135	135	165	193	111	124	158
26	129	136	118	122	142	133	131	162	187	138	132	155
27	127	139	118	125	144	133	132	163	169	128	132	150
28	123	138	122	128	140	134	133	155	159	117	132	145
29	123	139	122	131	141	133	135	145	143	142	127	137
30	125	130	122	141	---	132	131	142	139	129	130	134
31	125	---	122	139	---	133	---	142	---	182	132	---
TOTAL	3994	3992	3900	3893	3987	4317	4103	4586	4629	4176	4664	4244
MEAN	129	133	126	126	137	139	137	148	154	135	150	141
MAX	142	145	147	141	148	160	162	182	226	213	225	169
MIN	121	125	110	110	120	125	130	122	132	107	124	124
AC-FT	7920	7920	7740	7720	7910	8560	8140	9100	9180	8280	9250	8420
CAL YR 1975	TOTAL	51942	MEAN 142	MAX 278	MIN 110	AC-FT 103000						
WTR YR 1976	TOTAL	50485	MEAN 138	MAX 226	MIN 107	AC-FT 100100						

MIOBRARA RIVER BASIN

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06464500 KEYA PAHA RIVER AT WEWELA, SD

LOCATION.--Lat 43°01'42", long 99°46'45", in SE1/4 sec.24, T.95 N., R.76 W., Tripp County, Hydrologic Unit 10150006, on left bank 13 ft (4 m) downstream from bridge on U.S. Highway 183, 1.0 mi (1.6 km) north of Wewela, 4.5 mi (7.2 km) upstream from Holt Creek, and 11.5 mi (18.5 km) downstream from Lost Creek.

DRAINAGE AREA.--1,070 mi² (2,770 km²), approximately.

PERIOD OF RECORD.--November 1937 to September 1940, October 1947 to current year. Monthly discharge only for October 1947, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 2,049.78 ft (624.773 m) above mean sea level. Prior to June 21, 1957, nonrecording gage at site 13 ft (4.0 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--31 years (1938-40, 1947-76), 66.7 ft³/s (1.889 m³/s), 48,320 acre-ft/yr (59.6 hm³/yr); median of yearly mean discharges, 56 ft³/s (1.586 m³/s), 40,600 acre-ft/yr (50.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,430 ft³/s (154 m³/s) Mar. 31, 1952, gage height, 13.08 ft (3.987 m); maximum gage height, 13.5 ft (4.11 m) Mar. 25, 1950, from floodmark, backwater from ice; no flow Jan. 10 to Feb. 15, 1949, Aug. 19 to Sept. 14, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86 ft³/s (2.44 m³/s) Feb. 25; maximum gage height, 2.97 ft (0.905 m) Feb. 18, backwater from ice, no peak above base of 250 ft³/s (7.08 m³/s); no flow Aug. 19 to Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	20	3.5	12	20	30	38	27	25	6.1	1.1	0
2	14	19	4.0	12	18	10	36	27	23	5.6	2.1	0
3	16	20	4.5	10	18	15	36	27	21	7.6	1.9	0
4	14	20	4.5	10	16	25	34	26	19	10	1.5	0
5	13	21	6.0	10	16	40	33	25	17	9.8	1.9	0
6	14	21	6.0	9.0	15	50	33	23	16	9.8	2.7	0
7	14	21	7.0	9.0	18	55	32	25	15	9.2	2.2	0
8	13	21	7.0	10	25	50	33	25	14	7.9	1.1	0
9	13	21	8.0	10	40	50	31	26	13	6.1	1.1	0
10	13	21	8.0	10	45	48	28	25	12	4.9	1.0	0
11	12	21	8.0	11	55	48	28	24	12	4.0	.86	0
12	15	22	7.0	12	70	46	28	26	11	3.8	.51	0
13	16	17	7.0	12	75	45	31	27	10	3.2	1.2	0
14	15	20	7.0	13	75	46	32	26	10	3.4	1.0	0
15	15	25	6.0	14	80	50	33	26	10	3.8	1.5	6.5
16	16	25	6.0	14	75	60	33	24	10	3.5	1.9	11
17	16	24	6.0	15	75	65	32	23	9.7	3.6	.95	12
18	16	23	7.0	16	70	62	34	22	9.9	3.2	.14	8.4
19	17	19	8.0	16	65	59	34	20	10	3.2	0	7.7
20	16	10	10	16	65	57	34	22	10	3.1	0	6.8
21	16	5.0	12	17	60	54	34	22	8.8	2.6	0	6.6
22	17	4.0	12	18	65	52	31	21	8.2	1.2	0	5.4
23	18	4.0	13	18	75	49	30	30	7.9	.89	0	5.3
24	22	3.5	13	17	80	47	28	41	11	.70	0	5.5
25	23	3.0	14	16	85	45	27	54	11	.37	0	5.6
26	24	3.0	14	15	80	42	27	57	9.8	3.7	0	6.1
27	24	3.0	15	15	80	40	27	46	9.2	2.2	0	6.0
28	23	3.0	15	17	75	39	27	33	8.5	1.1	0	5.9
29	22	3.5	15	18	65	39	27	33	7.6	.85	0	6.2
30	22	3.5	16	20	---	38	28	30	5.9	.61	0	6.3
31	21	---	15	20	---	37	---	27	---	1.0	0	---
TOTAL	524	446.5	284.5	432.0	1601	1393	939	890	365.5	127.02	24.66	111.3
MEAN	16.9	14.9	9.18	13.9	55.2	44.9	31.3	28.7	12.2	4.10	.80	3.71
MAX	24	25	16	20	85	65	38	57	25	10	2.7	12
MIN	12	3.0	3.5	9.0	15	10	27	20	5.9	.37	0	0
AC-FT	1040	886	564	857	3180	2760	1860	1770	725	252	49	221
CAL YR 1975	TOTAL	8708.50	MEAN	23.9	MAX	294	MIN	1.9	AC-FT	17270		
WTR YR 1976	TOTAL	7138.48	MEAN	19.5	MAX	85	MIN	0	AC-FT	14160		

NIOBRARA RIVER BASIN

06464900 KEYS PAHA RIVER NEAR NAPER, NE

LOCATION.--Lat 42°55'00", long 99°05'50", in SE1/4SE1/4 sec.17, T.34 N., R.15 W., Boyd County, Hydrologic Unit 10150006, on left bank 8 ft (2 m) downstream from highway bridge, 3.3 mi (5.3 km) south of Naper, and 8.6 mi (13.8 km) upstream from mouth.

DRAINAGE AREA.--1,630 mi² (4,220 km²), approximately.

PERIOD OF RECORD.--October 1957 to current year.

REVISED RECORDS.--WSP 1709: 1959(M).

GAGE.--Water-stage recorder. Altitude of gage is 1,680 ft (512 m), from topographic map. Prior to May 2, 1958, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period, which are poor. Minor diversions for irrigation above station.

AVERAGE DISCHARGE.--19 years, 128 ft³/s (3.625 m³/s), 92,740 acre-ft/yr (0.114 km³/yr); median of yearly mean discharges, 110 ft³/s (3.115 m³/s), 79,700 acre-ft/yr (98.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,280 ft³/s (263 m³/s) July 1, 1962, gage height, 10.91 ft (3.325 m); maximum gage height, 13.34 ft (4.066 m) Mar. 23, 1960, backwater from ice; no flow July 22-30, Aug. 10, 11, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 492 ft³/s (13.9 m³/s) May 24, gage height, 5.88 ft (1.792 m); no peak above base of 900 ft³/s (25.5 m³/s); maximum gage height, 7.32 ft (2.231 m) Feb. 21, backwater from ice; no flow July 22-30, Aug. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	40	19	52	64	70	66	75	61	2.9	1.8	1.6
2	22	42	20	36	62	30	66	67	44	3.1	2.4	1.7
3	22	35	21	34	60	8.0	64	60	39	6.5	1.8	1.7
4	20	34	26	35	50	15	62	58	60	10	.96	1.8
5	20	35	30	34	52	25	64	54	37	6.0	.96	1.8
6	19	34	31	32	52	36	63	53	34	3.7	2.4	1.8
7	17	34	34	30	64	60	66	52	31	3.0	1.4	8.0
8	16	34	37	32	74	90	64	54	30	2.7	1.0	18
9	18	35	40	31	92	110	62	51	26	2.1	.89	15
10	17	36	44	33	118	100	58	46	26	1.6	0	13
11	16	37	37	36	145	84	58	43	21	1.5	0	11
12	23	35	38	37	145	70	51	48	22	1.4	.36	9.0
13	31	29	33	37	140	60	49	48	18	1.4	.92	7.8
14	24	34	30	37	135	110	48	43	19	1.5	.88	8.0
15	27	39	40	38	140	150	52	38	17	1.7	1.1	7.0
16	29	43	37	38	150	140	80	36	15	2.3	5.5	13
17	22	43	38	40	140	157	112	35	14	2.2	1.6	20
18	20	46	32	40	135	170	95	33	12	2.1	.68	12
19	24	40	35	41	130	150	91	32	10	1.7	.47	9.3
20	34	13	44	41	125	142	99	30	9.6	2.5	.40	9.3
21	22	11	49	43	114	129	93	30	9.0	1.0	.54	9.5
22	25	10	56	44	130	120	83	159	7.5	0	.72	7.2
23	27	9.6	60	46	150	110	81	326	9.5	0	.73	4.6
24	41	9.2	62	48	150	95	80	412	14	0	.82	4.4
25	48	9.0	62	48	140	91	74	240	12	0	1.4	5.1
26	47	9.2	66	44	140	89	72	179	9.2	0	1.3	11
27	43	9.4	70	42	145	82	73	155	5.7	0	.89	8.6
28	40	10	72	45	130	80	71	110	4.4	0	.90	8.7
29	42	12	76	50	110	78	79	78	3.7	0	1.0	9.6
30	41	15	78	58	---	73	80	63	3.4	0	1.2	10
31	37	---	70	62	---	65	---	55	---	.10	1.5	---
TOTAL	858	822.4	1387	1264	3282	2789.0	2156	2763	624.0	61.00	36.52	249.5
MEAN	27.7	27.4	44.7	40.8	113	90.0	71.9	89.1	20.8	1.97	1.18	8.32
MAX	48	46	78	62	150	170	112	412	61	10	5.5	20
MIN	16	9.0	19	30	50	8.0	48	30	3.4	0	0	1.6
AC-FT	1700	1630	2750	2510	6510	5530	4280	5480	1240	121	72	495
CAI YR 1975	TOTAL	20316.90	MEAN	55.7	MAX	702	MIN	1.4	AC-FT	40300		
WTR YR 1976	TOTAL	16292.42	MEAN	44.5	MAX	412	MIN	0	AC-FT	32320		

06465000 NIOBRARA RIVER NEAR SPENCER, NE

LOCATION.--Lat 42°48'33", long 98°30'19", in SE1/4NW1/4 sec.30, T.33 N., R.11 W., Boyd County, Hydrologic Unit 10150007, at Spencer powerplant dam 5 mi (8 km) southeast of Spencer.

DRAINAGE AREA.--12,100 mi² (31,300 km²), approximately.

PERIOD OF RECORD.--May to December 1908 (gage heights only); August 1913 to September 1914; October to December 1914, April to September 1915 (gage heights only); August 1927 to September 1936, June 1940 to current year. Published as "near Lynch" 1913-15. Monthly discharge only for some periods, published in WSF 1309.

REVISED RECORDS.--WDR NE-67: Drainage area.

GAGE.--Water-stage recorder and hourly log of powerplant operation. Datum of gage is 1,473.67 ft (449.175 m) above mean sea level. Elevation of taintor gate sill, 1,491.12 ft (454.493 m) above mean sea level. Prior to December 1908, nonrecording gage on former highway bridge 275 ft (83.8 m) downstream and Aug. 1, 1913, to Sept. 30, 1915, nonrecording gage at highway bridge 10 mi (16 km) downstream at different datums. Aug. 1, 1927, to Sept. 30, 1944, discharge computed as flow through powerhouse and over dam. Oct. 1, 1944, to Nov. 10, 1954, water-stage recorder at site 225 ft (68.6 m) downstream at datum 4.98 ft (1.518 m) higher, and Nov. 11, 1954, to Sept. 30, 1957, at site 0.3 mi (0.5 km) downstream at datum 9.78 ft (2.981 m) lower. Oct. 1, 1957, to Oct. 21, 1958, discharge computed as flow through powerhouse and over dam. Oct. 28, 1958, to Aug. 13, 1963, water-stage recorder at site 225 ft (68.6 m) downstream at present datum. Aug. 14, 1963, to Sept. 30, 1976, discharge computed as flow through powerhouse and over dam.

REMARKS.--Records good. Natural flow of stream affected by irrigation and power developments. Daily discharge determined from flow through turbines and taintor gates, computed from relation between discharge, head, and gate openings. Periodic temperature and conductance measurements are published in tables for water quality at miscellaneous sites.

COOPERATION.--Powerplant log furnished by Nebraska Public Power District.

AVERAGE DISCHARGE.--46 years (1913-14, 1927-36, 1940-76), 1,394 ft³/s (39.48 m³/s), 1,010,000 acre-ft/yr (1.25 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,400 ft³/s (776 m³/s) Mar. 12, 1955, gage height, 12.16 ft (3.706 m), site and datum then in use; minimum daily, 5 ft³/s (0.14 m³/s) Nov. 14, Dec. 18, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,050 ft³/s (86.4 m³/s) Mar. 10; minimum daily, 261 ft³/s (7.39 m³/s) Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	878	1040	759	1550	1850	1070	1140	1430	1100	627	734	572
2	866	1040	963	1290	1850	1040	1140	1410	1070	617	828	600
3	829	1040	1070	1050	1790	515	1150	1380	1180	736	751	564
4	773	1030	1170	905	1690	558	1190	1310	1040	1530	744	540
5	822	1030	1400	759	1540	261	1330	1140	1030	988	696	562
6	800	1030	1470	621	1280	280	1280	1240	964	994	745	544
7	795	1030	1440	618	1170	589	1430	1150	915	776	799	580
8	787	1060	1490	614	1080	1210	1480	1070	908	767	820	927
9	906	1070	1600	757	1300	2760	1440	975	848	684	864	892
10	873	1060	1680	935	1630	3050	1340	983	804	623	745	713
11	859	1020	1780	1030	1990	1970	1370	1010	1020	566	678	711
12	846	1030	1560	1100	2260	1180	1370	1180	1000	558	650	682
13	922	980	1510	1200	2530	885	1320	1220	852	558	673	806
14	997	1060	1290	1330	2460	2240	1400	1120	751	556	805	786
15	998	1080	1010	1400	2390	1770	1370	1030	899	552	925	1560
16	1000	1070	922	1350	2690	1430	1580	1080	829	590	1010	1270
17	990	1040	686	1430	2870	1290	1670	1030	763	615	899	935
18	938	1100	623	1470	3000	1370	1560	1030	839	575	779	945
19	950	1130	596	1540	2740	1360	1540	946	777	582	658	908
20	956	1070	756	1530	2190	1390	1690	897	707	600	600	986
21	961	537	892	1530	1330	1380	1570	962	688	599	572	902
22	974	795	1060	1590	1350	1360	1440	1460	645	600	591	836
23	1050	695	1160	1570	2250	1220	1620	2050	703	580	575	796
24	1290	663	1370	1600	2540	1180	1590	1970	1200	550	567	893
25	1220	718	1460	1610	2220	1150	1550	1700	987	512	568	913
26	1140	824	1470	1590	1700	1190	1450	1660	749	657	563	1050
27	1060	910	1470	1510	2040	1190	1390	1620	856	749	535	1050
28	1080	795	1530	1490	1660	1170	1470	1300	856	655	537	1010
29	1090	678	1570	1530	1420	1160	1490	1220	821	622	563	920
30	1070	550	1590	1600	---	1180	1510	1200	584	661	566	874
31	893	---	1640	1730	---	1160	---	1180	---	747	557	---
TOTAL	29613	28175	38987	39829	56810	39558	42870	38953	26385	21026	21597	25327
MEAN	955	939	1258	1285	1959	1276	1429	1257	880	678	697	844
MAX	1290	1130	1780	1730	3000	3050	1690	2050	1200	1530	1010	1560
MIN	773	537	596	614	1080	261	1140	897	584	512	535	540
AC-FT	58740	55890	77330	79000	112700	78460	85030	77260	52330	41710	42840	50240
CAL YR 1975	TOTAL	433698	MEAN	1188	MAX	3380	MIN	282	AC-FT	860200		
WTR YR 1976	TOTAL	409130	MEAN	1118	MAX	3050	MIN	261	AC-FT	811500		

NIOBRARA RIVER BASIN

06465500 NIOBRARA RIVER NEAR VERDEL, NE
(National stream-quality accounting network station)

LOCATION.--Lat 42°44'25", long 98°12'45", near center of N1/2 sec.23, T.32 N., R.8 W., Knox County, Hydrologic Unit 10150007, on left bank 4 ft (1 m) downstream from Pishelville Bridge, 6 mi (10 km) south of Verdel, and 7 mi (11 km) upstream from Verdigre Creek.

DRAINAGE AREA.--12,600 mi² (32,600 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to May 1940, June 1958 to current year.

REVISED RECORDS.--WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,308.12 ft (398.715 m) above mean sea level. Apr. 25, 1938, to June 16, 1939, nonrecording gage at same site and datum. June 17, 1939, to June 13, 1940, nonrecording gage 250 ft (76 m) downstream at present datum.

REMARKS.--Records poor. Natural flow of stream affected by irrigation and power developments.

AVERAGE DISCHARGE.--19 years, 1,518 ft³/s (42.99 m³/s), 1,100,000 acre-ft/yr (1.36 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft³/s (1,100 m³/s) Mar. 27, 1960, gage height, 10.10 ft (3.078 m); maximum gage height, 10.62 ft (3.237 m) Mar. 12, 1966, backwater from ice; minimum daily discharge, 104 ft³/s (2.95 m³/s) Nov. 30, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,800 ft³/s (108 m³/s) Mar. 10; maximum gage height observed, 7.25 ft (2.210 m) Feb. 19, backwater from ice; minimum daily discharge, 430 ft³/s (12.2 m³/s) Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1020	1110	900	1750	2050	1350	1300	1650	1300	586	714	680
2	1040	1140	1160	1450	2050	1300	1350	1550	1250	704	789	720
3	1000	1140	1250	1200	1950	700	1350	1500	1350	770	793	660
4	940	1160	1350	1060	1850	740	1390	1390	1200	1440	780	620
5	900	1200	1500	900	1700	430	1610	1370	1200	1140	760	640
6	860	1160	1500	760	1450	500	1690	1180	1100	934	860	620
7	840	1160	1550	740	1350	800	1710	1230	1080	990	900	640
8	800	1200	1550	720	1200	1500	1540	1200	1060	860	920	856
9	1000	1220	1700	900	1500	3000	1650	1160	1000	800	940	1050
10	1020	1220	1800	1100	1800	3800	1710	1100	960	720	840	790
11	1000	1200	1900	1160	2150	2220	1520	1180	1130	660	760	691
12	1000	1160	1750	1250	2400	1590	1350	1350	1560	640	740	648
13	1060	1140	1700	1350	2800	902	1500	1400	1040	620	760	660
14	1140	1180	1500	1500	2700	2670	1710	1460	965	620	860	875
15	1160	1220	1200	1550	2600	2000	1810	1560	885	640	900	941
16	1120	1140	1060	1500	2900	1650	1590	1300	1040	680	965	1830
17	1160	1080	840	1550	3100	1500	1880	1200	942	720	1020	1120
18	1100	1100	760	1550	3200	1650	1770	1200	901	660	960	1070
19	1140	1200	720	1650	2900	1600	1790	1160	951	640	800	1040
20	1120	1140	900	1700	2400	1650	1860	1100	882	640	740	1100
21	1140	700	1060	1800	1500	1600	1860	1200	790	617	700	1060
22	1160	920	1200	1750	1450	1550	1700	1800	749	630	720	1000
23	1200	840	1300	1700	2500	1500	1800	2400	726	595	700	944
24	1500	820	1500	1750	2800	1400	1750	2040	1370	551	660	1010
25	1450	860	1600	1750	2500	1350	1750	1820	1370	504	660	1170
26	1300	1060	1650	1750	1850	1350	1700	2040	1020	603	660	1360
27	1200	1080	1650	1700	2300	1350	1650	1980	804	753	640	1220
28	1140	960	1700	1650	1850	1350	1700	1630	983	735	640	1220
29	1130	840	1750	1700	1600	1350	1750	1480	933	593	660	1070
30	1090	700	1750	1750	---	1400	1700	1430	788	579	660	1000
31	939	---	1800	1900	---	1350	---	1400	---	720	660	---
TOTAL	33669	32050	43550	44540	62400	47102	49440	45460	31329	22344	24161	28305
MEAN	1086	1068	1405	1437	2152	1519	1648	1466	1044	721	779	944
MAX	1500	1220	1900	1900	3200	3800	1880	2400	1560	1440	1020	1830
MIN	800	700	720	720	1200	430	1300	1100	726	504	640	620
AC-FT	66780	63570	86380	88350	123800	93430	98060	90170	62140	44320	47920	56140
CAL YR 1975	TOTAL	496156	MEAN	1359	MAX	3600	MIN	300	AC-FT	984100		
WTR YR 1976	TOTAL	464350	MEAN	1269	MAX	3800	MIN	430	AC-FT	921000		

06465500 NIOBRARA RIVER NEAR VERDEL, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-65, 1967 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1975 to current year.

WATER TEMPERATURES: June 1958 to September 1965, October 1966 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to current year.

INSTRUMENTATION.--Temperature recorder since June 14, 1958.

REMARKS.--Prior to July 1, 1971, sediment records were obtained by U.S. Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 376 micromhos Jan. 13, 1975; minimum daily, 177 micromhos July 30, 1976.

WATER TEMPERATURES: Maximum, 38.0°C July 22, 1964, July 20, 1974; minimum, 0.0°C on many days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily, 12,000 mg/L June 8, 1975; minimum daily, 56 mg/L Dec. 27, 1972.

SEDIMENT LOADS: Maximum daily, 70,000 tons (63,700 tonnes) Mar. 12, 1972; minimum daily, 60 tons (55 tonnes) Dec. 7, 1972.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 364 micromhos Dec. 12; minimum daily, 180 micromhos Nov. 5, 7.

WATER TEMPERATURES: Maximum, 32.5°C July 22; minimum, 0.0°C on many days during winter period.

SEDIMENT CONCENTRATIONS: Maximum daily, 5,100 mg/L Feb. 18; minimum daily, 58 mg/L Feb. 5.

SEDIMENT LOADS: Maximum daily, 44,000 tons (40,000 tonnes) Feb. 18; minimum daily, 190 tons (173 tonnes) Jan. 3, 6.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)
OCT 08...	1010	771	253	7.8	15.0	4	25	10.6	7.1	33
NOV 18...	1140	1160	238	8.1	7.0	10	50	11.5	4.0	64
JAN 21...	1250	1710	252	7.4	.5	6	15	10.0	--	8
MAR 02...	1205	1310	269	7.7	.5	10	50	13.4	2.8	33
23...	0955	1550	271	7.5	10.0	40	65	11.7	6.6	18
APR 13...	1030	1450	248	7.5	19.5	30	45	9.5	8.2	22
MAY 04...	1110	1400	249	7.5	17.0	8	50	8.3	2.0	5
JUN 15...	1020	836	259	7.8	15.5	7	30	8.3	4.7	70
JUL 28...	1030	771	228	7.4	27.5	18	25	7.0	3.8	74
AUG 17...	1000	1070	216	7.4	28.5	7	35	7.5	3.5	411
SEP 08...	1025	855	220	7.7	19.5	8	35	8.3	--	900

DATE	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA, MG) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	DISSOLVED MAGNESIUM (MG) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)
OCT 08...	120	99	0	32	4.7	9.7	.4	6.5	139	0
NOV 18...	520	110	0	33	5.5	9.2	.4	4.9	140	0
JAN 21...	116	110	0	36	4.8	9.2	.4	5.9	145	0
MAR 02...	60	110	0	37	5.0	10	.4	5.0	143	0
23...	76	120	1	37	6.4	10	.4	6.7	144	0
APR 13...	77	100	0	32	4.8	9.4	.4	7.6	138	0
MAY 04...	108	100	0	34	4.8	9.9	.4	7.0	144	0
JUN 15...	390	110	0	36	4.9	10	.4	6.5	149	0
JUL 28...	124	96	0	32	3.9	9.6	.4	7.0	133	0
AUG 17...	540	96	0	32	3.8	8.2	.4	6.3	126	0
SEP 08...	2600	93	0	31	3.9	9.0	.4	6.1	116	0

06465500 NIOBRARA RIVER NEAR VERDEL, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)
OCT 08...	114	9.7	1.9	.4	46	186	179	.25	387	.14
NOV 18...	115	13	1.4	.3	48	170	184	.23	532	.64
JAN 21...	119	13	1.3	.3	47	204	192	.28	942	.76
MAR 02...	117	21	1.5	.4	47	199	198	.27	704	.95
23...	118	26	3.6	.4	46	207	210	.28	866	.79
APR 13...	113	16	2.3	.4	46	191	187	.26	748	.39
MAY 04...	118	15	1.3	.4	45	190	189	.26	719	.46
JUN 15...	122	14	.7	.4	54	201	200	.27	454	.11
JUL 28...	109	12	1.6	.3	55	191	187	.26	398	.01
AUG 17...	103	13	1.6	.3	45	166	172	.23	480	.01
SEP 08...	95	18	.7	.3	45	180	171	.24	416	.04
DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
OCT 08...	--	.09	.88	.97	1.1	.13	.05	30	20	10
NOV 18...	--	.01	1.7	1.7	2.3	.13	.06	30	150	5
JAN 21...	.76	.04	.18	.22	.98	.13	.08	20	10	10
MAR 02...	--	.00	.59	.59	1.5	.20	.08	40	60	10
23...	.72	.06	1.6	1.7	2.5	.24	.09	50	30	10
APR 13...	--	.02	.59	.61	1.0	.20	.08	10	0	10
MAY 04...	--	.03	.39	.42	.88	.23	.17	300	30	20
JUN 15...	.00	.05	.70	.75	.86	.18	.03	30	10	150
JUL 28...	--	.00	.16	.16	.17	.13	.01	40	10	0
AUG 17...	--	.00	.83	.83	.84	.21	.01	30	0	0
SEP 08...	.01	.00	.62	.62	.66	.17	.01	30	30	10
DATE	TIME	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L) (00608)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L) (00607)	SUS- PENDED KJEL. NITRO- GEN (N) (MG/L) (00624)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L) (00623)	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS- PENDED ARSENIC (AS) (UG/L) (01001)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD- MIUM (CD) (UG/L) (01027)
JAN 21...	1250	9	.01	--	.00	--	5	1	4	<10
MAR 23...	0955	14	.01	.21	1.5	.22	8	3	5	<10
JUN 15...	1020	46	.00	.20	.55	.20	13	3	10	0
SEP 08...	1025	47	.00	.17	.45	.17	4	2	2	<10

06465500 NIOBRARA RIVER NEAR VERDEL, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS- PENDE CAD- MIUM (CD) (UG/L) (01026)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	TOTAL CHRO- MIUM (CR) (UG/L) (01034)	SUS- PENDE CHRO- MIUM (CR) (UG/L) (01031)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS- PENDE COBALT (CO) (UG/L) (01036)	DIS- SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS- PENDE COPPER (CU) (UG/L) (01041)
JAN 21...	<10	0	0	0	0	<50	<50	0	<10	<10
MAR 23...	<10	0	0	0	0	<50	<50	0	10	8
JUN 15...	0	0	10	0	<10	1	1	0	0	0
SEP 08...	<9	1	10	0	10	<50	<49	1	10	10

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	SUS- PENDE LEAD (PB) (UG/L) (01050)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN- GANESE (MN) (UG/L) (01055)	SUS- PENDE MAN- GANESE (MN) (UG/L) (01054)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)
JAN 21...	0	950	<100	<94	6	80	70	.0	.0
MAR 23...	2	4700	<100	<100	0	330	320	.0	.0
JUN 15...	0	1300	3	0	3	150	0	<.5	.0
SEP 08...	0	1800	<100	<95	5	250	240	.0	.0

DATE	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	SUS- PENDE SELE- NIUM (SE) (UG/L) (01146)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS- PENDE ZINC (ZN) (UG/L) (01091)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
JAN 21...	.0	1	0	1	0	10	0	10	3.9
MAR 23...	.0	1	1	0	0	20	20	0	6.1
JUN 15...	<.5	0	0	0	0	10	10	0	4.8
SEP 08...	.0	1	0	1	0	20	20	0	6.8

DATE	TOTAL PHYTO- PLANK- TON (CELLS PER ML) (60050)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI- PHYTON BIOMASS DRY WEIGHT G/SQ M (00573)	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL A MG/SQ M (32228)	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL B MG/SQ M (32226)
OCT 08...	19000	--	--	--	--
NOV 18...	21000	.000	.100	.100	.000
JAN 21...	1000	--	--	--	--
MAR 02...	8700	--	--	--	--
MAR 23...	11000	--	--	--	--
APR 13...	12000	--	--	--	--
MAY 04...	9900	--	--	--	--
JUN 15...	260000	--	--	--	--
JUL 28...	230000	--	--	--	--
AUG 17...	220000	25.7	28.7	10.6	.713
SEP 08...	73000	5.77	6.54	5.79	.369
SEP 28...	--	6.38	8.54	23.0	1.38

NIOBRARA RIVER BASIN

06465500 NIOBRARA RIVER NEAR VERDEL, NE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	261	220	326	289	268	308	268	308	279	265	348	249
2	256	235	311	290	256	314	266	278	276	257	256	257
3	252	286	318	290	261	296	270	260	279	261	246	253
4	246	283	313	286	257	278	266	262	279	272	248	252
5	249	188	362	283	259	296	258	270	273	239	246	252
6	250	203	361	263	268	314	262	274	273	250	245	247
7	248	188	339	263	265	259	258	268	271	258	245	230
8	248	196	355	265	271	303	261	272	264	260	246	230
9	248	239	336	255	261	325	262	267	273	254	251	238
10	248	197	346	262	234	267	262	279	272	257	254	238
11	248	253	361	293	239	292	260	274	266	256	239	236
12	248	208	364	256	241	300	261	270	265	248	240	234
13	248	220	308	264	225	299	260	283	270	254	247	238
14	246	195	362	261	228	290	263	270	270	255	227	226
15	248	205	355	265	225	273	262	272	278	261	227	236
16	244	230	322	255	223	274	262	272	263	253	220	241
17	246	228	345	276	279	271	264	267	264	252	250	239
18	245	238	352	263	267	276	263	265	261	253	258	240
19	245	255	348	262	262	269	264	269	263	254	252	238
20	244	267	340	262	255	275	264	266	265	248	254	237
21	244	279	268	266	274	276	263	293	266	248	261	241
22	243	286	284	253	257	275	260	286	285	257	252	242
23	240	288	270	247	274	272	261	278	276	260	253	239
24	248	308	270	253	260	273	263	303	288	246	256	246
25	248	306	272	249	258	291	262	275	276	250	258	236
26	248	304	297	255	270	278	262	280	278	252	254	243
27	248	304	297	259	273	278	261	276	280	246	250	235
28	250	301	295	254	262	275	261	281	273	241	253	249
29	256	302	290	258	274	268	264	270	299	254	253	250
30	251	298	288	255	---	275	260	279	255	266	253	264
31	251	---	319	258	---	274	---	279	---	292	255	---
MONTH	248	250	322	265	257	284	262	276	273	255	252	242

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	10.0	10.5	7.0	1.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5
2	17.5	9.5	9.5	7.0	1.0	1.0	1.0	0.5	1.0	1.0	0.5	0.5
3	19.5	11.0	11.5	6.0	1.0	0.5	1.5	1.0	1.0	0.5	0.5	0.5
4	19.5	12.0	12.5	7.0	1.0	0.0	1.5	1.0	1.5	1.0	0.5	0.5
5	18.5	12.0	12.0	7.0	1.0	0.5	1.0	0.5	1.5	1.5	0.5	0.0
6	18.5	11.0	14.5	10.0	1.0	0.5	1.5	0.5	1.5	1.0	0.5	0.0
7	17.5	11.5	11.5	8.5	0.5	0.5	1.5	1.5	1.5	0.5	0.0	0.0
8	17.0	12.0	9.0	7.5	0.5	0.5	1.5	1.0	1.0	0.0	0.0	0.0
9	14.0	9.5	8.5	5.5	0.5	0.0	1.5	0.5	0.5	0.0	1.5	0.0
10	14.0	9.0	7.0	4.0	1.0	0.5	1.0	0.5	0.5	0.0	1.0	0.0
11	16.5	8.5	6.0	3.5	1.0	1.0	1.0	0.0	0.5	0.0	1.0	0.0
12	19.5	12.5	4.0	1.5	1.0	1.0	0.5	0.5	0.5	0.0	1.0	0.0
13	17.0	12.0	3.5	1.5	1.5	1.0	1.0	0.5	0.5	0.0	2.5	0.5
14	15.5	10.5	6.0	1.5	1.5	1.5	1.0	0.5	0.5	0.5	2.5	0.5
15	13.5	7.0	6.0	3.5	2.0	0.5	0.5	0.5	0.5	0.0	4.0	0.5
16	11.5	7.5	7.5	2.5	1.5	1.5	0.5	0.5	0.5	0.0	5.5	0.5
17	14.0	7.5	7.5	4.5	2.0	1.5	1.0	0.5	0.5	0.0	9.0	1.0
18	14.0	7.5	8.5	6.5	2.0	1.0	1.0	0.5	0.5	0.0	10.5	4.5
19	14.5	7.5	6.5	2.0	1.5	0.5	1.0	0.5	0.5	0.0	13.5	6.0
20	14.0	7.5	2.0	2.0	1.0	1.0	1.0	0.5	0.5	0.5	9.5	4.5
21	14.0	7.5	2.0	2.0	1.5	0.5	0.5	0.5	1.0	0.5	9.5	2.0
22	13.5	7.5	2.0	1.0	1.0	1.0	1.0	0.5	1.0	0.5	11.5	4.0
23	10.0	6.5	2.0	1.5	1.5	1.5	1.0	0.5	1.0	0.0	12.5	4.5
24	6.5	4.0	2.0	1.5	1.5	1.0	1.0	0.5	0.5	0.5	12.0	6.0
25	7.0	2.5	2.0	2.0	1.5	1.0	1.0	0.5	1.0	0.5	16.0	6.0
26	9.0	3.5	2.0	1.5	1.0	1.0	1.5	1.0	1.0	0.5	12.5	7.5
27	10.5	6.0	1.5	1.5	1.0	1.0	1.5	1.0	4.0	0.5	12.5	4.5
28	9.0	5.0	1.5	1.5	1.0	1.0	1.0	0.5	5.0	1.5	10.5	5.0
29	8.5	4.5	1.5	1.0	1.0	0.5	1.0	0.5	4.0	0.5	8.5	4.5
30	10.5	5.5	1.5	1.0	1.5	0.5	1.0	0.5	---	---	10.0	3.5
31	10.5	7.5	---	---	0.5	0.5	1.0	0.5	---	---	13.5	4.0
MONTH	19.5	2.5	14.5	1.0	2.0	0.0	1.5	0.0	5.0	0.0	16.0	0.0

NIOBRARA RIVER BASIN

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06465500 NIOBRARA RIVER NEAR VERDEL, NE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	4.5	18.5	6.0	27.0	16.5	25.5	16.0	20.0	17.0	25.5	15.5
2	14.5	7.0	13.5	5.0	26.0	17.0	23.5	16.0	27.5	16.0	24.5	15.0
3	7.0	4.0	17.0	4.0	24.5	17.0	20.0	16.5	24.5	16.0	22.5	14.5
4	12.5	2.5	17.5	7.0	24.0	15.0	26.0	15.5	31.0	17.0	23.5	13.5
5	16.5	5.5	16.0	9.5	25.0	15.5	26.5	16.0	22.5	19.0	24.5	14.5
6	13.5	7.0	16.0	5.5	26.5	17.0	29.0	17.0	27.0	16.0	25.5	15.5
7	10.5	8.5	19.0	6.0	26.5	17.5	30.0	20.0	25.5	15.5	24.0	16.0
8	14.5	6.0	19.5	8.5	27.0	18.5	27.5	19.5	25.5	16.5	17.5	14.5
9	15.0	7.0	20.5	9.5	26.5	18.5	29.5	19.0	30.5	17.5	20.5	10.5
10	18.5	8.5	20.5	11.5	31.0	19.5	30.0	17.5	32.0	19.5	21.0	11.0
11	15.0	8.5	21.0	10.5	27.5	19.5	31.5	21.0	26.0	19.0	24.0	12.5
12	15.0	6.0	17.0	11.5	25.0	18.5	31.0	21.5	31.5	19.5	23.5	16.0
13	17.5	9.0	18.5	9.5	27.5	15.5	32.0	19.5	29.5	19.0	21.5	16.5
14	19.0	11.5	22.0	10.0	24.0	16.0	31.5	20.0	24.0	19.0	22.5	14.0
15	20.0	12.0	21.0	12.5	16.5	11.5	26.0	20.0	20.0	17.5	18.5	15.0
16	14.5	10.5	15.0	10.0	21.5	11.5	29.5	14.5	24.0	16.5	18.5	14.5
17	15.0	8.5	20.5	8.5	21.5	15.0	29.0	17.0	27.5	19.0	17.5	14.0
18	14.5	8.5	20.0	10.0	21.0	11.0	29.5	18.5	28.5	19.0	24.0	14.0
19	14.5	8.5	24.0	11.0	25.5	11.5	24.0	20.0	28.5	19.0	21.0	12.5
20	14.0	8.5	26.0	15.5	25.0	14.0	27.5	20.0	26.5	16.0	17.5	9.5
21	17.5	7.0	22.5	15.5	23.5	15.5	29.5	17.0	26.0	16.5	19.5	10.5
22	18.5	7.5	16.0	11.5	26.0	16.0	32.5	20.0	29.5	19.0	20.5	11.0
23	19.5	10.5	11.5	9.5	20.5	16.0	31.5	20.5	28.5	19.5	15.0	10.5
24	14.0	6.0	18.5	9.0	21.0	14.5	30.5	18.5	27.5	18.5	16.0	10.0
25	15.0	5.0	17.0	11.5	25.5	14.0	31.0	18.5	26.0	18.5	15.5	13.5
26	10.0	7.0	15.0	12.0	21.0	16.5	31.0	20.0	27.5	17.5	16.0	10.5
27	11.5	6.0	22.0	11.0	25.5	11.5	27.5	20.0	22.5	15.0	12.0	7.5
28	11.5	7.5	25.5	13.5	28.5	16.0	29.0	20.0	25.5	12.5	14.0	5.5
29	10.0	7.5	25.0	15.0	23.5	16.0	31.5	17.5	25.0	13.5	16.0	6.0
30	12.5	6.0	20.0	15.0	28.5	14.5	32.0	21.0	24.5	16.0	18.5	8.5
31	---	---	26.0	14.5	---	---	24.0	18.5	22.5	16.0	---	---
MONTH	20.0	2.5	26.0	4.0	31.0	11.0	32.5	14.5	32.0	12.5	25.5	5.5

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (000061)	TEMPER- ATURE (DEG C) (00010)	SUS- PENDE DI- MENT (MG/L) (80154)	SUS- PENDE DI- MENT (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN .004 MM (70338)
JAN							
21...	1425	1800	.5	206	1000	--	--
MAR							
23...	1250	1500	10.0	1440	5830	5	6
APR							
13...	1245	1500	15.5	708	2870	--	--
MAY							
04...	1415	1390	18.0	1110	4170	--	--
JUN							
15...	1220	862	13.0	407	947	--	--
JUL							
07...	1110	1330	21.5	446	1600	--	--
28...	1230	775	24.0	217	454	--	--
AUG							
17...	1140	984	21.5	485	1290	--	--
SEP							
08...	1220	850	16.0	426	978	--	--
28...	1320	1250	11.0	694	2340	--	--

NIOBRARA RIVER BASIN

06465500 NIOBRARA RIVER NEAR VERDEL, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN (70340)	SUS. SED. FALL DIAM. % FINER THAN (70342)	SUS. SED. FALL DIAM. % FINER THAN (70343)	SUS. SED. FALL DIAM. % FINER THAN (70344)	SUS. SED. FALL DIAM. % FINER THAN (70345)	SUS. SED. FALL DIAM. % FINER THAN (70346)	SUS. SED. FALL DIAM. % FINER THAN (70347)
JAN 21...	--	30	48	68	100	--	--
MAR 23...	7	17	33	64	80	86	100
APR 13...	--	25	49	86	96	100	--
MAY 04...	--	16	36	65	88	100	--
JUN 15...	--	17	25	90	92	100	--
JUL 07...	--	31	64	87	97	100	--
28...	--	37	82	92	98	100	--
AUG 17...	--	27	65	85	99	100	--
SEP 08...	--	36	48	80	98	100	--
28...	--	12	27	81	99	100	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	NUMBER OF SAM- PLING POINTS (00063)	BED MAT. FALL DIAM. % FINER THAN (80158)	BED MAT. FALL DIAM. % FINER THAN (80159)	BED MAT. FALL DIAM. % FINER THAN (80160)	BED MAT. FALL DIAM. % FINER THAN (80161)	BED MAT. FALL DIAM. % FINER THAN (80162)	BED MAT. FALL DIAM. % FINER THAN (80169)	BED MAT. FALL DIAM. % FINER THAN (80170)	BED MAT. FALL DIAM. % FINER THAN (80171)	BED MAT. FALL DIAM. % FINER THAN (80172)
OCT 08...	1320	800	5	0	1	48	89	97	98	100	--	--
NOV 18...	1340	1100	5	0	2	52	96	100	--	--	--	--
JAN 21...	1425	1800	4	0	4	28	72	82	87	92	94	100
MAR 23...	1250	1500	5	1	2	58	90	98	98	99	100	--
APR 13...	1245	1500	5	0	1	53	96	100	--	--	--	--
MAY 04...	1415	1390	5	0	3	44	93	97	99	100	--	--
25...	1205	1860	5	0	2	49	90	96	99	100	--	--
JUN 15...	1220	862	5	0	3	51	93	97	98	99	100	--
JUL 07...	1110	1330	5	0	4	48	89	95	98	100	--	--
28...	1230	775	5	1	11	65	95	99	99	100	--	--
AUG 17...	1140	984	5	0	2	40	92	97	99	100	--	--
SEP 08...	1220	850	5	--	0	28	91	98	99	99	100	--
28...	1320	1250	5	0	1	35	81	92	97	99	100	--

06465500 NIOBRARA RIVER NEAR VERDEL, NE--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1020	200	550	1110	260	780	900	240	580
2	1040	210	590	1140	260	800	1160	260	810
3	1000	220	590	1140	260	800	1250	400	1400
4	940	210	530	1160	270	850	1350	1300	4700
5	900	190	460	1200	260	840	1500	1400	5700
6	860	160	370	1160	270	850	1500	2000	8100
7	840	240	540	1160	500	1600	1550	2700	11000
8	800	370	800	1200	800	2600	1550	2000	8400
9	1000	180	490	1220	1000	3300	1700	980	4500
10	1020	200	550	1220	420	1400	1800	600	2900
11	1000	260	700	1200	220	710	1900	440	2300
12	1000	330	890	1160	290	910	1750	650	3100
13	1060	380	1100	1140	280	860	1700	910	4200
14	1140	430	1300	1180	270	860	1500	900	3600
15	1160	460	1400	1220	280	920	1200	870	2800
16	1120	460	1400	1140	290	890	1060	650	1900
17	1160	420	1300	1080	750	2200	840	420	950
18	1100	350	1000	1100	880	2600	760	600	1200
19	1140	300	920	1200	400	1300	720	820	1600
20	1120	280	850	1140	220	680	900	850	2100
21	1140	300	920	700	220	420	1060	810	2300
22	1160	350	1100	920	220	550	1200	550	1800
23	1200	850	2800	840	220	500	1300	340	1200
24	1500	1600	6500	820	230	510	1500	380	1500
25	1450	2000	7800	860	260	600	1600	440	1900
26	1300	2200	7700	1060	280	800	1650	400	1800
27	1200	1800	5800	1080	280	820	1650	340	1500
28	1140	1100	3400	960	270	700	1700	260	1200
29	1130	650	2000	840	260	590	1750	170	800
30	1090	370	1100	700	240	450	1750	140	660
31	939	280	710	---	---	---	1800	120	580
TOTAL	33669	---	56160	32050	---	31690	43550	---	87080
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1750	100	470	2050	100	550	1350	1100	4000
2	1450	80	310	2050	80	440	1300	800	2800
3	1200	60	190	1950	65	340	700	1100	2100
4	1060	80	230	1850	60	300	740	1300	2600
5	900	100	240	1700	58	270	430	1100	1300
6	760	95	190	1450	130	510	500	950	1300
7	740	98	200	1350	210	770	800	1400	3000
8	720	110	210	1200	190	620	1500	1900	7700
9	900	120	290	1500	140	570	3000	2300	19000
10	1100	100	300	1800	120	580	3800	2500	26000
11	1160	88	280	2150	120	700	2220	2300	14000
12	1250	130	440	2400	110	710	1590	2100	9000
13	1350	170	620	2800	100	760	902	2400	5800
14	1500	120	490	2700	100	730	2670	2600	19000
15	1550	77	320	2600	300	2100	2000	1900	10000
16	1500	95	380	2900	2400	19000	1650	1300	5800
17	1550	120	500	3100	4700	39000	1500	1600	6500
18	1550	160	670	3200	5100	44000	1650	2000	8900
19	1650	190	850	2900	5000	39000	1600	1600	6900
20	1700	200	920	2400	4800	31000	1650	980	4400
21	1800	210	1000	1500	4400	18000	1600	1200	5200
22	1750	220	1000	1450	3100	12000	1550	1500	6300
23	1700	250	1100	2500	1600	11000	1500	1500	6100
24	1750	200	940	2800	1400	11000	1400	1400	5300
25	1750	150	710	2500	1700	11000	1350	1500	5500
26	1750	140	660	1850	1900	9500	1350	1600	5800
27	1700	140	640	2300	2100	13000	1350	1900	6900
28	1650	130	580	1850	1800	9000	1350	2400	8700
29	1700	130	600	1600	1400	6000	1350	2700	9800
30	1750	140	660	---	---	---	1400	2800	11000
31	1900	160	820	---	---	---	1350	2900	11000
TOTAL	44540	---	16810	62400	---	282450	47102	---	241700

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APRIL				MAY				JUNE	
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	1300	2800	9800	1650	750	3300	1300	550	1900	
2	1350	2600	9500	1550	1200	5000	1250	520	1800	
3	1350	2000	7300	1500	1300	5300	1350	600	2200	
4	1390	1100	4100	1390	1200	4500	1200	730	2400	
5	1610	600	2600	1370	1200	4400	1200	850	2800	
6	1690	310	1400	1180	1200	3800	1100	970	2900	
7	1710	300	1400	1230	1200	4000	1080	750	2200	
8	1540	420	1700	1200	1200	3900	1060	420	1200	
9	1650	420	1900	1160	1100	3400	1000	360	970	
10	1710	430	2000	1100	760	2300	960	450	1200	
11	1520	600	2500	1180	950	3000	1130	550	1700	
12	1350	800	2900	1350	1400	5100	1560	620	2600	
13	1500	800	3200	1400	1200	4500	1040	600	1700	
14	1710	1200	5500	1460	740	2900	965	550	1400	
15	1810	1600	7800	1560	550	2300	885	440	1100	
16	1590	2000	8600	1300	450	1600	1040	460	1300	
17	1880	1600	8100	1200	460	1500	942	750	1900	
18	1770	780	3700	1200	500	1600	901	1200	2900	
19	1790	550	2700	1160	750	2300	951	1000	2600	
20	1860	520	2600	1100	1100	3300	882	560	1300	
21	1860	460	2300	1200	2000	6500	790	750	1600	
22	1700	380	1700	1800	3000	15000	749	1100	2200	
23	1800	550	2700	2400	3100	20000	726	1100	2200	
24	1750	790	3700	2040	2800	15000	1370	940	3500	
25	1750	950	4500	1820	1600	7900	1370	800	3000	
26	1700	1000	4600	2040	1100	6100	1020	670	1800	
27	1650	1100	4900	1980	750	4000	804	650	1400	
28	1700	1300	6000	1630	440	1900	983	700	1900	
29	1750	1000	4700	1480	400	1600	933	850	2100	
30	1700	620	2800	1430	530	2000	788	1000	2100	
31	---	---	---	1400	550	2100	---	---	---	
TOTAL	49440	---	127200	45460	---	150100	31329	---	59870	
DAY	JULY				AUGUST				SEPTEMBER	
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	586	800	1300	714	190	370	680	440	810	
2	704	410	780	789	190	400	720	440	860	
3	770	380	790	793	180	390	660	400	710	
4	1440	600	2300	780	160	340	620	320	540	
5	1140	700	2200	760	280	570	640	300	520	
6	934	780	2000	860	470	1100	620	300	500	
7	990	500	1300	900	380	920	640	320	550	
8	860	360	840	920	200	500	856	430	990	
9	800	300	650	940	200	510	1050	600	1700	
10	720	270	520	840	250	570	790	490	1000	
11	660	240	430	760	280	570	691	400	750	
12	640	210	360	740	310	620	648	310	540	
13	620	240	400	760	320	660	660	240	430	
14	620	300	500	860	310	720	875	190	450	
15	640	300	520	900	320	780	941	200	510	
16	680	290	530	965	340	890	1830	360	1800	
17	720	260	510	1020	500	1400	1120	280	850	
18	660	250	440	960	780	2000	1070	320	920	
19	640	360	620	800	900	1900	1040	300	840	
20	640	560	970	740	990	2000	1100	220	650	
21	617	440	730	700	800	1500	1060	200	570	
22	630	180	310	720	540	1000	1000	200	540	
23	595	140	220	700	440	830	944	360	920	
24	551	200	300	660	420	750	1010	550	1500	
25	504	200	270	660	340	610	1170	480	1500	
26	603	200	330	660	270	480	1360	290	1100	
27	753	200	410	640	320	550	1220	420	1400	
28	735	210	420	640	450	780	1220	640	2100	
29	593	200	320	660	460	820	1070	560	1600	
30	579	180	280	660	420	750	1000	430	1200	
31	720	180	350	660	420	750	---	---	---	
TOTAL	22344	---	21900	24161	---	26030	28305	---	28350	

06466500 BAZILE CREEK NEAR NIOBRARA, NE

LOCATION.--Lat 42°45'00", long 97°56'10", in NE1/4 sec.18, T.32 N., R.5 W., Knox County, Hydrologic Unit 10170101, on downstream side of left pier of bridge on State Highway 12, 2.5 mi (4.0 km) upstream from mouth and 4.5 mi (7.2 km) east of Niobrara.

DRAINAGE AREA.--440 mi² (1,140 km²), approximately.

PERIOD OF RECORD.--May 1952 to current year. Records for October 1931 to September 1932, published in WSF 731, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1279: 1952. WSP 1729: 1958(M). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder for stages above 4.3 ft (1.31 m) and nonrecording gage read once daily. Datum of gage is 1,210.81 ft (369.055 m) above mean sea level. Prior to Dec. 16, 1952, nonrecording gage only, and Dec. 16, 1952, to June 16, 1957, water-stage recorder, above 4.2 ft (1.28 m), at present site at datum 4 ft (1.2 m) higher. June 17, 1957, to Sept. 14, 1958, water-stage recorder above 8.2 ft (2.50 m) at present datum.

REMARKS.--Records good except those for winter period, which are poor. Minor diversions for irrigation above station.

AVERAGE DISCHARGE.--24 years, 85.4 ft³/s (2.419 m³/s), 61,870 acre-ft/yr (76.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,600 ft³/s (1,940 m³/s) June 16, 1957, gage height, 19.96 ft (6.084 m), present datum, from high point on surge, from rating curve extended above 6,500 ft³/s (184 m³/s) on basis of contracted-opening measurements at gage heights 15.36 ft (4.682 m) and 19.96 ft (6.084 m), present datum; maximum gage height, 20.25 ft (6.172 m) Feb. 19, 1971, backwater from ice; no flow July 24, 25, Aug. 30, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 19, 1951, reached a stage of 15.36 ft (4.682 m), present datum, from floodmarks, discharge, 24,400 ft³/s (691 m³/s) on basis of contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 242 ft³/s (6.85 m³/s) Apr. 23, gage height, 12.25 ft (3.734 m), no peak above base of 2,000 ft³/s (56.6 m³/s); maximum gage height observed, 13.26 ft (4.042 m) Feb. 17, backwater from ice; no flow July 24, 25, Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	35	38	40	68	81	70	68	40	19	15	4.8
2	27	35	45	34	64	78	66	66	37	23	17	9.4
3	26	37	54	29	56	72	66	62	35	23	14	14
4	25	38	58	28	50	66	68	64	34	23	11	11
5	23	40	54	35	43	58	66	58	31	19	10	8.9
6	23	40	52	35	46	62	64	58	31	17	15	5.8
7	23	41	58	36	54	66	72	57	30	15	13	4.8
8	23	41	62	34	62	70	62	54	30	16	8.9	21
9	24	51	62	34	66	74	60	48	30	9.8	7.1	20
10	27	56	60	35	68	72	58	45	29	4.0	6.2	19
11	30	51	56	36	70	66	56	45	32	2.1	4.4	17
12	27	50	54	35	72	62	57	74	27	1.4	7.6	16
13	27	47	46	36	74	90	56	60	30	1.0	5.3	16
14	30	50	39	40	78	108	54	54	26	.35	7.1	19
15	30	48	39	40	80	126	56	48	25	2.1	12	22
16	32	48	37	40	82	114	95	41	28	4.4	30	25
17	33	47	37	43	84	120	82	40	24	4.0	28	24
18	32	45	50	44	86	149	88	38	24	3.5	16	24
19	32	42	54	44	86	132	74	35	24	3.2	11	22
20	32	36	54	43	86	114	78	34	23	6.2	8.0	24
21	33	38	52	46	82	111	78	35	19	5.8	5.8	22
22	33	36	48	49	90	100	74	48	18	2.8	4.0	22
23	34	35	50	52	94	100	117	80	19	2.3	2.8	20
24	37	33	54	56	96	92	153	85	34	0	1.4	21
25	35	32	56	47	98	100	126	80	29	0	.70	26
26	35	30	52	45	103	85	105	60	24	3.3	2.8	32
27	34	33	52	48	95	76	92	52	24	14	.35	29
28	34	32	52	52	101	80	82	50	22	14	.82	29
29	35	34	50	60	87	80	78	45	20	12	.32	28
30	35	36	49	76	---	78	74	45	19	15	0	27
31	35	---	48	78	---	68	---	42	---	15	.39	---
TOTAL	934	1217	1572	1350	2221	2750	2327	1671	818	281.25	265.98	583.7
MEAN	30.1	40.6	50.7	43.5	76.6	88.7	77.6	53.9	27.3	9.07	8.58	19.5
MAX	37	56	62	78	103	149	153	85	40	23	30	32
MIN	23	30	37	28	43	58	54	34	18	0	0	4.8
AC-FT	1850	2410	3120	2680	4410	5450	4620	3310	1620	558	528	1160
CAI YR 1975	TOTAL	17842.30	MEAN	48.9	MAX	259	MIN	6.5	AC-FT	35390		
WTF YR 1976	TOTAL	15990.93	MEAN	43.7	MAX	153	MIN	0	AC-FT	31720		

MISSOURI RIVER MAIN STEM

06467000 LEWIS AND CLARK LAKE NEAR YANKTON, SD

LOCATION.--Lat 42°50'56", long 97°28'54", in SW1/4 sec.7, T.33 N., R.1 W., Cedar County, Ne., Hydrologic Unit 10170101, in powerhouse of Gavins Point Dam on Missouri River, 3.75 mi (6.03 km) southwest of Yankton, 13.6 mi (21.9 km) upstream from James River, 32.5 mi (52.3 km) downstream from Niobrara River, and at mi 811.0 (1,304.9 km).

DRAINAGE AREA.--279,500 mi² (723,900 km²), approximately.

PERIOD OF RECORD.--July 1955 to current year (monthend contents only). Prior to October 1955, published as Gavins Point Reservoir near Yankton.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Dec. 9, 1955, recorder at temporary location on wall of intake structure unit 3.

REMARKS.--Reservoir is formed by earthfill dam; storage began in July 1955. Maximum capacity, 541,000 acre-ft (0.667 km³) below elevation 1,210.0 ft (369 m), top of spillway gates. Normal maximum, 477,000 acre-ft (0.588 km³) below elevation 1,208.0 ft (368 m). Inactive storage, 156,000 acre-ft (0.192 km³) below elevation 1,195.0 ft (364 m). Dead storage, 18,000 acre-ft (22.2 hm³) below elevation 1,180.0 ft (360 m), crest of spillway. Figures given herein represent elevations at powerhouse and total contents adjusted for wind effect.

The spillway consists of 14 Taintor gates, each 40 ft (12 m) wide by 30 ft (9 m) high; spillway capacity, 280,000 ft³/s (7,930 m³/s) at pool elevation 1,210.0 ft (369 m). Crest of spillway is at elevation 1,180 ft (360 m). Normal releases are through 3 power units, installation completed in January 1957; maximum release through power units is 35,000 ft³/s (991 m³/s) at pool elevation 1,210.0 ft (369 m). Water is used for flood control, navigation, power, and incidental uses.

COOPERATION.--Elevations and contents furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 565,000 acre-ft (0.697 km³) Apr. 1, 1960, elevation, 1,210.7 ft (369.02 m), affected by wind; minimum since initial filling, 61,950 acre-ft (76.4 hm³) Apr. 23, 1956, elevation, 1,188.1 ft (362.13 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 492,000 acre-ft (0.607 km³) Dec. 3, elevation, 1,209.1 ft (368.53 m), affected by wind; minimum, 360,000 acre-ft (0.444 km³) May 18, June 8, minimum elevation, 1,204.5 ft (367.13 m) Mar. 6, affected by wind.

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	1,208.0	458,000	-
Oct. 31	1,208.2	465,000	+7,000
Nov. 30	1,207.8	451,000	-14,000
Dec. 31	1,208.2	466,000	+15,000
CAL YR 1975	-	-	+11,000
Jan. 31	1,208.2	462,000	+1,000
Feb. 29	1,205.3	377,000	-85,000
Mar. 31	1,205.3	379,000	+2,000
Apr. 30	1,205.2	376,000	-3,000
May 31	1,205.4	382,000	+6,000
June 30	1,206.6	414,000	+32,000
July 31	1,207.8	449,000	+35,000
Aug. 31	1,207.8	451,000	+2,000
Sept. 30	1,208.2	462,000	+11,000
WTR YR 1976	-	-	+4,000

MISSOURI RIVER MAIN STEM

59

06467500 MISSOURI RIVER AT YANKTON, SD

LOCATION.--Lat 42°51'58", long 97°23'37", in SW1/4SW1/4 sec.18, T.93 N., R.55 W., Yankton County, Hydrologic Unit 10170101, near left bank in downstream end of left pier of Meridian Highway Bridge on U.S. Highway 81, 5.2 mi (8.4 km) downstream from Gavins Point Dam, 6.0 mi (9.7 km) upstream from James River, and at mi 805.8 (1,296.5 km).

DRAINAGE AREA.--279,500 mi² (723,900 km²), approximately.

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1309. Gage-height records collected at same site March 1873 to November 1886, March 1905 to May 1908 (fragmentary), August 1921 to date (except winter months prior to 1932), are contained in reports of the U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 1,139.68 ft (347.374 m) above mean sea level. Prior to Sept. 20, 1932, nonrecording gage, and Sept. 20, 1932, to Mar. 9, 1967, water-stage recorder at present site and at datum 20.00 ft (6.096 m) higher.

REMARKS.--Records good. Flow completely regulated by Lewis and Clark Lake (station 06467000) 5.2 mi (8.4 km) upstream since July 1955. Many diversions for irrigation and water supply above station. Corps of Engineers gage-height telemeter at station. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--46 years, 26,040 ft³/s (737.5 m³/s), 18,870,000 acre-ft/yr (23.3 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 480,000 ft³/s (13,600 m³/s) Apr. 13, 1952; maximum gage height, 35.5 ft (10.82 m) Apr. 13, 14, 1952 (present datum); minimum daily discharge, 2,700 ft³/s (76.5 m³/s) Nov. 15, 16, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 50.5 ft (15.39 m) Apr. 5, 1881, ice jam, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 63,700 ft³/s (1,800 m³/s) Nov. 5, gage height, 23.07 ft (7.032 m); maximum gage height, 23.17 ft (7.062 m) Oct. 6; minimum daily, 19,900 ft³/s (564 m³/s) Jan. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62200	63200	57300	20000	23900	26400	36300	36300	36600	39100	38700	38500
2	62600	63300	52300	20000	24100	26300	36300	36200	38800	39200	38800	38500
3	62500	63200	47700	20000	24100	26100	36000	36300	39000	38900	39000	38500
4	62400	63300	43100	20000	24400	26200	36300	36300	39000	39000	38700	38600
5	62500	63400	38500	20000	24400	26000	36300	36300	39000	39100	39100	38600
6	62900	63400	34600	20000	24500	26000	36500	36300	39000	39000	38800	38700
7	62900	63100	30600	20000	24500	26200	36500	36400	38700	39300	38900	38700
8	62600	62900	27600	20000	24400	28700	36400	36400	38900	39200	39100	38600
9	62500	62900	25400	20000	24500	29300	36500	36500	39000	39000	39200	38400
10	62600	62700	25200	19900	24300	29100	36500	36400	39000	38800	39200	38400
11	62800	62600	25000	20000	24000	29100	36600	36600	39000	39000	39100	38500
12	62600	61900	24800	20000	24500	31000	36500	36500	39000	38700	39000	38600
13	62800	62600	24600	20000	24700	32100	36600	36500	39000	38600	39000	38500
14	62600	62500	24500	20000	24700	31800	36500	36600	39000	38700	39200	38700
15	62400	62400	23600	20000	24600	29900	36600	36500	38700	38800	38900	38700
16	62600	62100	22100	20100	24500	32200	36900	36400	38800	38800	39300	38400
17	62300	62000	22900	22400	24400	32000	36600	36400	38600	38900	39000	38500
18	62300	62100	22700	22600	24500	32100	36500	36400	38500	38900	39000	38400
19	62400	62100	23300	23000	24300	33100	36600	36500	38600	38500	39000	38400
20	62400	61700	24800	23000	24400	35000	36600	36600	38600	38700	38900	38300
21	62400	61600	23100	23000	24200	35000	36600	36600	38700	38500	38700	38300
22	62500	61600	23000	22700	24100	35000	36600	36800	38900	38700	38700	38400
23	62500	61500	23000	24300	24000	35600	36700	36900	39000	38900	38700	38400
24	62500	61300	23000	24200	24000	35700	36400	36600	38900	38500	38700	38300
25	62400	61300	22900	24100	23800	35900	36400	36700	39000	38800	38500	38400
26	62600	61300	23000	24000	24300	35400	36400	36600	39000	38800	38500	38400
27	62600	61300	22900	23900	24300	35700	36400	36600	39200	38800	38300	38300
28	62600	61100	22800	23800	24400	35800	36400	36600	39100	39000	38400	38300
29	62900	60700	22900	23800	24400	35800	36300	36600	39000	38700	38500	38400
30	62900	60200	23000	23900	---	36000	36300	36600	39100	38700	38600	38400
31	63000	---	23000	23900	---	36100	---	36600	---	38800	38700	---
TOTAL	1939800	1865300	873200	672600	705200	980600	1094100	1131600	1164700	1204400	1204200	1154100
MEAN	62570	62180	28170	21700	24320	31630	36470	36500	38820	38850	38850	38470
MAX	63000	63400	57300	24300	24700	36100	36900	36900	39200	39300	39300	38700
MIN	62200	60200	22100	19900	23800	26000	36000	36200	36600	38500	38300	38300
AC-FT	3848000	3700000	1732000	1334000	1399000	1945000	2170000	2245000	2310000	2389000	2389000	2289000
CAL YR 1975	TOTAL	14854500	MEAN	40700	MAX	63400	MIN	17000	AC-FT	29460000		
WTR YR 1976	TOTAL	13989800	MEAN	38220	MAX	63400	MIN	19900	AC-FT	27750000		

MISSOURI RIVER MAIN STEM

06486000 MISSOURI RIVER AT SIOUX CITY, IA
(National stream-quality accounting network station)

LOCATION.--Lat 42°29'10", long 96°24'47", in NW1/4SE1/4 sec.16, T.29 N., R.9 E., sixth principal meridian, Dakota County, Ne, Hydrologic Unit 10230001, on right bank on upstream side of bridge on U.S. Highway 77 at South Sioux City, Ne, 2.0 mi (3.2 km) downstream from Big Sioux River, and at mi 732.3 (1,178.3 km).

DRAINAGE AREA.--314,600 mi² (814,800 km²), approximately.

PERIOD OF RECORD.--October 1897 to current year in reports of Geological Survey. Prior to October 1928 and October 1931 to September 1938, monthly discharge only, published in WSP 1310. January 1879 to December 1890 (monthly discharge only) in House Document 238, 73rd Congress, 2d session, Missouri River. Gage-height records collected in this vicinity September 1878 to December 1899 are contained in reports of Missouri River Commission and since July 1889 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 716: 1929-30. WSP 876: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,056.98 ft (322.168 m) above mean sea level. Sept. 2, 1878, to Dec. 31, 1905, nonrecording gages at various locations within 1.7 mi (2.7 km) of present site and at various datums. Jan. 1, 1906, to Feb. 14, 1935, nonrecording gage, and Feb. 15, 1935, to Sept. 30, 1969, water-stage recorder at present site at datum 19.98 ft (6.090 m) higher, and Oct. 1, 1969, to Sept. 30, 1970, at datum 20.00 ft (6.096 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Flow partly regulated by upstream main-stem reservoirs. National Weather Service gage height telemeter at station. Records of chemical and biological analyses, water temperatures, and suspended sediment discharges for the current year are published in WDR IA-76.

AVERAGE DISCHARGE.--79 years, 32,000 ft³/s (906.2 m³/s), 23,190,000 acre-ft/yr (28.6 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 441,000 ft³/s (12,500 m³/s) Apr. 14, 1952, gage height, 24.28 ft (7.401 m), datum then in use; minimum, 2,500 ft³/s (70.8 m³/s) Dec. 29, 1941; minimum gage height, -6.60 ft (-2.012 m), datum then in use, Dec. 14, 1968, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 67,400 ft³/s (1,910 m³/s) Nov. 20, gage height, 24.02 ft (7.321 m); maximum gage height, 25.59 ft (7.800 m) Oct. 8; minimum daily discharge, 12,000 ft³/s (340 m³/s) Jan. 8; minimum gage height, not determined, occurred during period of no gage-height record Jan. 8 or 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62900	63200	58500	26200	26400	27800	39800	38100	38400	39800	39500	39500
2	62600	63200	55200	22800	25400	28600	40000	38100	38400	39800	39200	38900
3	62600	63600	52500	21000	24300	29000	40000	38100	40800	39800	38900	38900
4	62900	63900	49800	19000	23800	28000	39500	38400	40800	39500	39500	39200
5	63200	63900	45200	19300	21800	27100	39200	38600	40000	39200	39200	39200
6	62600	63900	39500	19900	22200	27100	39800	38600	39800	39800	39500	39500
7	62900	64200	35100	17000	22900	28300	39800	38400	39800	39500	39200	39800
8	63200	63200	32000	12000	24600	28300	39500	37800	39500	39500	38900	40000
9	63200	63600	29000	12500	25600	30800	39200	37600	40000	39800	39200	39800
10	62600	63200	27100	18000	26600	32300	39200	37600	40600	39500	40800	38900
11	62600	62900	27100	20500	26800	32000	39200	37800	40600	38900	39500	38900
12	62900	63600	26800	20700	26600	32800	38600	38400	40600	38900	39500	38900
13	63600	62300	26400	21100	27800	32800	38400	38400	40300	38600	39200	39500
14	64200	62600	26200	20800	27600	35400	38400	37600	39800	38900	39200	39200
15	63900	62300	24600	20300	29000	36400	38600	37800	39500	39200	39200	39500
16	63200	62300	24000	20800	29300	35100	38900	37800	39200	39200	38600	40000
17	63200	62000	22000	20700	29800	36700	39200	37600	38900	38600	40000	40300
18	63200	63200	26000	23500	30300	36700	38600	37300	38900	38900	38900	40300
19	63900	64900	23200	24400	30000	36200	38400	37600	38900	39200	39500	40300
20	63900	66200	25200	24100	29300	36700	38600	38100	38900	39200	39500	40300
21	63600	63900	26000	24400	28600	38100	38600	38600	39200	38900	39200	39800
22	63900	63200	26200	25600	28000	37600	38600	40000	39500	38600	38900	39200
23	64600	63200	25600	24800	27800	38400	38900	41100	39800	39200	38900	38900
24	64600	63200	26000	24800	28000	38900	39500	39800	40600	39500	38900	38900
25	63600	62300	26400	24800	28300	39500	38900	38600	40300	39500	39200	38900
26	62900	61300	26000	24400	28600	40300	37800	38600	40000	40800	39200	39500
27	63200	61300	26200	23600	28600	39800	38100	38100	40300	40800	39500	40000
28	63200	61000	26200	25200	28600	40600	38100	37600	40800	40600	38900	39800
29	62600	61000	26200	28300	28300	41100	38400	37000	40600	40000	38900	39500
30	62600	59400	26200	27600	---	40300	38400	37600	40300	39500	38900	39200
31	62900	---	26200	26800	---	39500	---	38100	---	39200	38900	---
TOTAL	1961000	1888000	962600	684900	784900	1072200	1168200	1184800	1195100	1222400	1216400	1184600
MEAN	63260	62930	31050	22090	27070	34590	38940	38220	39840	39430	39240	39490
MAX	64600	66200	58500	28300	30300	41100	40000	41100	40800	40800	40800	40300
MIN	62600	59400	22000	12000	21800	27100	37800	37000	38400	38600	38600	38900
AC-FT	3890000	3745000	1909000	1358000	1557000	2127000	2317000	2350000	2370000	2425000	2413000	2350000

CAI YR 1975 TOTAL 15133000 MEAN 41460 MAX 66200 MIN 8000 AC-FT 30020000
WTR YR 1976 TOTAL 14525100 MEAN 39690 MAX 66200 MIN 12000 AC-FT 28810000

M Expressed in thousands.

OMAHA CREEK BASIN

61

06601000 OMAHA CREEK AT HOMER, NE

LOCATION.--Lat 42°19'29", long 96°29'43", in SW1/4SE1/4 sec.11, T.27 N., R.8 E., Dakota County, Hydrologic Unit 10230001, on left bank 80 ft (24 m) downstream from bridge on main street of Homer.

DRAINAGE AREA.--168 mi² (435 km²).

PERIOD OF RECORD.--October 1945 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WDR NE-72: Drainage area. WDR NE-75-1: 1971-73.

GAGE.--Water-stage recorder. Datum of gage is 1,082.45 ft (329.931 m) above mean sea level. Prior to Aug. 4, 1952, at bridge 0.5 mi (0.8 km) downstream at datum 8.03 ft (2.448 m) lower. Aug. 4, 1952, to Nov. 3, 1966, at site 80 ft (24 m) upstream at present datum.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--31 years, 35.2 ft³/s (0.997 m³/s), 25,500 acre-ft/yr (31.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,100 ft³/s (513 m³/s) Feb. 19, 1971, gage height, 26.47 ft (8.068 m), from floodmark, from rating curve extended above 3,700 ft³/s (105 m³/s) on basis of slope-area measurements at gage heights 16.38 ft (4.993 m) and 23.62 ft (7.199 m); minimum daily, 0.1 ft³/s (0.003 m³/s) Sept. 16, 18, 19, 1948, Sept. 9, 13, 14, 1955, Oct. 7, 8, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood known occurred June 4, 1940, stage, about 32.5 ft (9.91 m), present site and datum, discharge estimated as 51,000 ft³/s (1,440 m³/s) at site 2.5 miles upstream from present site.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 230 ft³/s (6.51 m³/s) Feb. 15, gage height, 3.28 ft (1.000 m), backwater from ice, no peak above base of 1,000 ft³/s (28.3 m³/s); minimum daily, 1.2 ft³/s (0.034 m³/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	10	13	9.0	21	11	21	15	13	5.3	4.5	1.8
2	8.7	9.9	13	8.0	16	11	18	14	12	4.9	4.2	1.8
3	8.9	10	13	7.0	12	10	16	14	11	5.0	3.9	1.8
4	9.4	9.8	14	6.2	11	10	15	14	11	5.2	3.8	1.8
5	7.4	10	18	7.6	10	10	15	14	10	5.2	3.5	1.6
6	7.3	10	20	6.0	9.8	12	15	13	9.8	4.0	3.5	1.5
7	7.7	10	18	5.2	9.0	13	15	12	10	2.9	3.8	1.5
8	7.6	9.8	14	6.2	15	15	15	12	10	2.8	3.6	1.5
9	8.1	16	13	7.2	25	16	14	12	9.4	2.2	3.2	1.8
10	8.5	23	13	7.0	40	18	13	12	7.8	1.8	3.4	1.6
11	8.9	13	14	7.6	58	18	14	12	7.6	2.6	3.3	1.7
12	9.1	8.4	13	8.6	50	73	14	13	11	1.8	3.5	1.7
13	9.3	6.1	12	8.0	40	31	14	16	8.4	1.7	3.8	5.0
14	8.0	5.6	11	7.1	48	30	13	14	6.7	1.8	3.9	4.1
15	8.1	7.8	9.8	9.0	100	22	17	13	6.3	2.8	4.4	2.8
16	8.4	9.8	9.6	8.8	52	17	30	12	6.7	2.8	5.0	2.2
17	10	9.8	9.4	8.0	36	16	18	11	6.5	2.6	5.8	2.2
18	9.9	9.8	8.4	9.4	27	18	15	10	5.7	2.6	4.9	1.7
19	9.1	14	14	9.2	23	19	14	9.9	6.0	2.6	3.5	2.6
20	8.9	20	13	8.8	19	18	13	10	6.3	2.8	2.7	2.6
21	9.1	11	13	8.6	15	16	14	12	6.0	3.0	2.6	2.0
22	9.4	10	12	9.0	12	14	13	35	5.7	3.0	2.5	2.2
23	9.6	10	11	9.2	19	14	15	85	5.7	3.4	2.3	1.2
24	9.4	11	11	9.2	19	14	27	45	8.1	3.2	2.4	1.7
25	9.5	12	10	8.8	18	14	44	19	7.8	3.2	2.1	1.8
26	9.1	12	11	8.0	19	16	24	15	6.6	18	1.8	3.0
27	8.9	13	11	7.2	16	15	18	14	6.3	9.4	1.9	3.8
28	8.5	13	11	9.8	15	14	16	15	6.3	9.8	1.6	3.0
29	8.8	13	11	12	14	28	15	14	6.3	7.0	1.6	2.0
30	8.5	12	12	15	---	78	15	12	5.3	6.1	1.6	1.8
31	9.0	---	10	19	---	34	---	12	---	5.1	1.6	---
TOTAL	272.3	339.8	386.2	269.7	768.8	645	520	530.9	239.3	134.6	100.2	65.8
MEAN	8.78	11.3	12.5	8.70	26.5	20.8	17.3	17.1	7.98	4.34	3.23	2.19
MAX	10	23	20	19	100	78	44	85	13	18	5.8	5.0
MIN	7.3	5.6	8.4	5.2	9.0	10	13	9.9	5.3	1.7	1.6	1.2
AC-FT	540	674	766	535	1520	1280	1030	1050	475	267	199	131
CAL YR 1975	TOTAL	11572.7	MEAN	31.7	MAX	1870	MIN	3.0	AC-FT	22950		
WTR YR 1976	TOTAL	4272.6	MEAN	11.7	MAX	100	MIN	1.2	AC-FT	8470		

TEKAMAH CREEK BASIN

06608000 TEKAMAH CREEK AT TEKAMAH, NE

LOCATION.--Lat 41°46'30", long 96°13'10", in SE1/4 sec.19, T.21 N., R.11 E., Burt County, Hydrologic Unit 10230001, on left bank 30 ft (9 m) upstream from bridge 1 block east of U.S. Highway 73 in Tekamah.

DRAINAGE AREA.--23.0 mi² (59.6 km²).

PERIOD OF RECORD.--July 1949 to current year.

REVISED RECORDS.--WSP 1630: Drainage area.

GAGE.--Water-stage recorder and crest-stage indicator. Datum of gage is 1,032.26 ft (314.633 m) above mean sea level. Prior to Sept 15, 1949, nonrecording gage at site 30 ft (9 m) downstream at present datum.

REMARKS.--Records fair except those for winter period, which are poor.

AVERAGE DISCHARGE.--27 years, 6.46 ft³/s (0.183 m³/s), 4,680 acre-ft/yr (5.77 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,180 ft³/s (175 m³/s) June 5, 1963, gage height, 16.62 ft (5.066 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49 ft³/s (1.39 m³/s) June 26, gage height, 3.67 ft (1.119 m), no peak above base of 400 ft³/s (11.3 m³/s); maximum gage height, 4.14 ft (1.262 m) Jan. 10, backwater from ice; minimum daily discharge 0.02 ft³/s (0.0005 m³/s) Sept. 7, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.1	2.6	2.6	2.8	1.4	3.8	2.1	1.6	.85	.07	.05
2	1.5	2.0	2.6	2.5	2.6	1.5	3.3	2.0	1.8	.97	.06	.04
3	1.4	2.0	2.6	2.4	2.5	1.6	2.7	1.9	1.5	.95	.05	.04
4	1.4	2.0	2.7	2.3	2.4	1.7	2.5	1.9	1.4	.94	.05	.03
5	1.4	2.0	2.7	2.4	2.3	2.0	2.6	1.9	1.3	.86	.10	.03
6	1.4	2.2	2.5	2.5	2.3	2.7	2.4	1.7	1.2	.74	.08	.03
7	1.3	2.4	2.5	2.3	2.5	3.9	2.9	1.6	1.3	.69	.07	.02
8	1.5	2.0	2.6	2.4	2.6	3.6	2.9	1.8	1.2	.60	.06	.04
9	1.9	4.9	2.7	2.5	2.6	3.5	2.3	2.0	1.1	.49	.08	.02
10	2.0	4.0	2.8	2.5	2.6	3.0	2.3	1.9	1.0	.43	.09	.03
11	2.1	2.2	2.8	2.7	2.5	2.9	4.2	1.8	.95	.28	.10	.04
12	2.0	1.9	2.7	2.8	2.6	3.1	2.4	3.2	.90	.19	.10	.04
13	2.2	2.1	4.0	2.8	2.5	3.0	2.3	3.3	.79	.18	.10	.04
14	1.8	2.3	5.0	2.9	3.0	2.5	2.2	2.2	.98	.09	.21	.03
15	1.8	2.3	3.0	3.0	6.0	2.7	2.3	1.9	.91	.10	.11	.04
16	2.1	2.3	2.7	2.9	5.0	2.8	2.7	1.9	.91	.05	.11	.04
17	2.1	2.3	2.5	2.8	4.1	3.1	2.1	1.9	.88	.05	.08	.04
18	1.7	2.3	2.2	2.9	3.3	3.5	2.4	1.6	.80	.05	.07	.03
19	2.0	4.6	2.5	2.8	2.7	3.9	2.2	1.5	.76	.05	.07	.14
20	2.0	9.9	2.7	2.7	2.4	5.8	2.2	1.4	.79	.05	.07	.51
21	2.2	3.8	2.6	2.7	2.0	6.7	2.3	1.5	.75	.05	.05	.08
22	1.7	2.9	2.5	2.6	2.3	5.0	2.0	7.2	.68	.05	.05	.05
23	1.9	2.5	2.4	2.5	3.1	4.7	2.4	24	.70	.06	.05	.05
24	1.9	2.4	2.5	2.5	3.1	3.1	4.3	4.2	1.2	.05	.07	.04
25	1.7	2.5	2.5	2.4	2.2	3.1	6.6	2.7	1.1	.04	.08	.22
26	1.8	2.6	2.5	2.4	2.0	3.1	2.5	2.3	5.2	.05	.07	.17
27	1.9	2.6	2.6	2.4	1.9	2.6	2.3	2.2	12	.12	.07	.12
28	1.8	2.7	2.6	2.5	2.0	2.6	2.2	2.1	1.3	.09	.07	.14
29	1.7	2.8	2.7	3.0	1.8	6.8	2.2	2.0	1.2	.07	.07	.20
30	2.0	2.7	2.6	3.0	---	21	2.2	1.8	.84	.20	.07	.15
31	2.1	---	2.5	3.0	---	4.8	---	1.8	---	.08	.08	---
TOTAL	55.7	85.3	84.4	81.7	79.7	121.7	81.7	91.3	47.04	9.47	2.46	2.50
MEAN	1.80	2.84	2.72	2.64	2.75	3.93	2.72	2.95	1.57	.31	.079	.083
MAX	2.2	9.9	5.0	3.0	6.0	21	6.6	24	12	.97	.21	.51
MIN	1.3	1.9	2.2	2.3	1.8	1.4	2.0	1.4	.68	.04	.05	.02
AC-FT	110	169	167	162	158	241	162	181	93	19	4.9	5.0

CAI YR 1975 TOTAL 3333.70 MEAN 9.13 MAX 636 MIN 1.3 AC-FT 6610
WTR YR 1976 TOTAL 742.97 MEAN 2.03 MAX 24 MIN .02 AC-FT 147C

MISSOURI RIVER MAIN STEM

63

06610000 MISSOURI RIVER AT OMAHA, NE

LOCATION.--Lat 41°15'32", long 95°55'20", in SE1/4NW1/4 sec.23, T.15 N., R.13 E., Douglas County, Hydrologic Unit 10230006, on right bank on left side of concrete floodwall, at foot of Douglas Street, 275 ft (84 m) downstream from Interstate 480 Highway bridge in Omaha, and at mi 615.9 (991.0 km).

DRAINAGE AREA.--322,800 mi² (836,100 km²), approximately.

PERIOD OF RECORD.--September 1928 to current year. April 1872 to December 1899 (gage heights only) in reports of the Missouri River Commission and since January 1875 (gage heights only) in reports of the U.S. Weather Bureau.

REVISED RECORDS.--WSP 761: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 958.24 ft (292.072 m) above mean sea level. See WSP 1730 for history of changes prior to Sept. 30, 1936.

REMARKS.--Records good. Flow partly regulated by upstream main-stem reservoirs. National Weather Service gage height telemeter at station. Records of chemical analyses, water temperatures, and suspended sediment discharges for the current year are published in WDR IA-76.

AVERAGE DISCHARGE.--48 years, 29,320 ft³/s (830.3 m³/s), 21,240,000 acre-ft/yr (26.2 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 396,000 ft³/s (11,200 m³/s) Apr. 18, 1952, gage height, 30.20 ft (9.205 m); minimum, about 2,200 ft³/s (62.3 m³/s) Jan. 6, 1937; minimum gage height observed, -2.77 ft (-0.844 m) Jan. 10, 1957, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 75,000 ft³/s (2,120 m³/s) Nov. 21, gage height, 10.98 ft (3.347 m); maximum gage height, 11.83 ft (3.606 m) Oct. 2; minimum daily discharge, 13,200 ft³/s (374 m³/s) Jan. 9; minimum gage height observed, 0.12 ft (0.037 m) Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64700	62700	65300	25400	26300	29000	42200	40500	39100	42600	40200	39500
2	64300	62700	64500	25900	26000	28600	42600	39800	38400	42100	40000	39800
3	64100	64500	59700	24000	25000	28700	43200	39100	38600	42000	39900	39500
4	63700	65400	54600	21600	24500	28800	43200	38800	40600	42000	39700	39400
5	63000	65100	49100	21900	24200	28000	42400	38400	42000	41500	39800	39700
6	63900	64700	44300	22400	21300	27100	40600	38600	41300	40700	40100	39400
7	63600	65100	40400	22600	22500	27200	40300	38800	40800	40900	39500	39400
8	64000	66900	36600	21400	23600	28000	40500	38300	40900	41000	39700	39700
9	64700	69000	33400	13200	26200	28400	40600	38000	40800	41000	39700	40200
10	65700	69500	31100	15700	28000	31100	40600	37700	40900	40800	39600	40400
11	65200	68200	29600	20000	28400	32800	40800	37700	40900	40400	39700	39600
12	64000	67600	29500	20600	28000	34300	40500	38400	40800	39400	39500	39100
13	63800	67500	29900	19600	27700	35300	39800	38700	41100	39000	39800	39400
14	65200	64500	31000	22000	28400	36600	39900	38600	42100	39400	40200	40000
15	65800	64700	30500	21300	28800	39000	40000	38300	40400	39900	39500	40200
16	65600	64800	28200	26400	31000	40100	40100	38000	39800	40200	39500	39600
17	64900	65500	27300	17500	31400	37100	39900	38000	39400	39900	39900	39800
18	64200	64800	25000	18600	31500	39900	40200	38500	39400	39800	40100	40000
19	63700	65600	24500	22100	31800	40100	39400	38300	39100	39800	39700	40500
20	64200	71700	24600	24200	31100	40400	39200	38000	38700	39800	39300	40600
21	64000	73900	26000	24000	30500	40800	39400	38400	38900	39800	39600	40700
22	63200	67300	27200	24100	29200	41400	40100	42600	39200	39100	39600	40600
23	64000	65300	27400	25400	28800	39900	40800	46300	39700	39100	39200	40000
24	66000	66800	26800	25200	28000	40500	42400	47000	40400	39500	38900	39400
25	65800	66100	26500	25300	27900	40000	43000	43400	41000	40300	39200	40000
26	64500	64900	26900	25300	28400	40900	42300	41100	41900	40500	39300	39600
27	63700	62800	26600	24100	28800	40600	40300	40700	42900	41400	39600	39600
28	64700	63600	26700	23300	29200	41000	39400	41400	42100	41400	39400	39800
29	64600	65600	26700	24900	29200	42300	39500	41200	42500	40700	39000	40100
30	64300	67000	25900	27500	---	43600	39900	40100	42700	40700	38800	40100
31	63700	---	25000	27100	---	42800	---	39600	---	40900	39100	---
TOTAL	1996800	1983800	1050800	702600	805700	1114300	1223100	1232300	1216400	1255600	1227100	1195700
MEAN	64410	66130	33900	22660	27780	35950	40770	39750	40550	40500	39580	39860
MAX	66000	73900	65300	27500	31800	43600	43200	47000	42900	42600	40200	40700
MIN	63000	62700	24500	13200	21300	27100	39200	37700	38400	39000	38800	39100
AC-FT	3961000	3935000	2084000	1394000	1598000	2210000	2426000	2444000	2413000	2490000	2434000	2372000
CAL YR 1975	TOTAL	16296350	MEAN	44650	MAX	73900	MIN	8700	AC-FT	32320000		
WTR YR 1976	TOTAL	15004200	MEAN	41000	MAX	73900	MIN	13200	AC-FT	29760000		

M Expressed in thousands

PLATTE RIVER BASIN

06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE

LOCATION.--Lat 41°59'25", long 104°02'57", in SW1/4NE1/4SE1/4 sec.4, T.23 N., R.58 W., Scotts Bluff County, NE, Hydrologic Unit 10180009, on right bank 650 ft (198 m) upstream from bridge on NE State Highway 86, 700 ft (213 m) downstream from Wyoming-Nebraska State line, and 0.5 mi (0.8 km) south of Henry, NE.

DRAINAGE AREA (REVISED).--22,218 mi² (57,545 km²), of which 1,929 mi² (4,996 km²), is probably noncontributing. The 3,959 mi² (10,254 km²) in Great Divide basin is not included.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1929 to current year.

REVISED RECORDS.--WSP 1918: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,020 ft (1,225 m), from topographic map. Prior to Nov. 6, 1929, nonrecording gage and Nov. 6, 1929, to Feb. 22, 1972, water-stage recorder, at sites 0.5 mi (0.8 km) upstream at different datums.

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs, transbasin diversions, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Gering-Mitchell Canal diverts from right bank 0.8 mi (1.3 km) upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 17,900 ft³/s (507 m³/s) June 2, 1929, gage height, 7.04 ft (2.146 m), site and datum then in use; minimum daily, 13 ft³/s (0.37 m³/s) May 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,830 ft³/s (51.8 m³/s) Aug. 1, gage height, 3.47 ft (1.058 m); minimum daily, 211 ft³/s (5.98 m³/s) Apr. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	615	442	330	230	295	277	226	716	515	975	1680	954
2	560	434	334	240	295	277	226	595	490	996	1480	926
3	535	418	354	280	292	271	220	475	462	1140	1570	877
4	515	410	366	276	271	271	217	458	446	1260	1690	849
5	500	406	358	285	260	262	217	446	462	1310	1430	926
6	490	406	354	285	280	256	220	338	398	1350	1260	835
7	495	402	350	280	292	256	223	370	370	1360	1180	849
8	495	398	354	275	298	265	211	402	350	1340	1090	863
9	495	394	358	284	318	262	244	422	402	1370	1080	863
10	500	386	358	289	330	265	226	434	334	1400	1060	814
11	505	382	358	280	338	265	223	426	338	1450	1070	752
12	495	378	354	280	334	244	223	430	402	1420	1090	704
13	490	378	350	286	326	253	217	438	590	1440	1100	662
14	495	378	342	283	318	250	217	458	740	1440	1120	638
15	595	374	334	292	314	268	220	475	835	1420	1130	626
16	674	374	322	301	310	250	295	565	856	1450	1230	620
17	662	374	318	307	307	247	414	540	863	1500	1190	620
18	575	370	334	322	301	250	422	540	842	1560	1180	610
19	525	374	318	322	295	250	398	540	849	1590	1140	632
20	490	366	318	318	292	244	394	550	849	1580	1100	632
21	475	366	322	322	286	241	394	605	856	1580	1020	605
22	470	358	322	318	283	244	422	686	983	1630	996	610
23	470	358	322	318	280	247	426	912	968	1560	996	610
24	470	366	322	310	280	241	402	905	926	1510	996	620
25	462	362	322	304	277	244	394	764	863	1520	1010	644
26	466	358	322	292	280	241	394	728	807	1630	1020	656
27	466	358	322	286	280	235	410	605	828	1700	1040	632
28	454	350	318	283	277	235	422	530	814	1610	1040	638
29	446	334	314	295	277	232	426	495	821	1610	1000	692
30	450	322	314	304	---	229	462	485	891	1530	968	650
31	446	---	318	298	---	226	---	540	---	1500	961	---
TOTAL	15781	11376	10382	9045	8586	7798	9405	16873	20150	44731	35917	21609
MEAN	509	379	335	292	296	252	314	544	672	1443	1159	720
MAX	674	442	366	322	338	277	462	912	983	1700	1690	954
MIN	446	322	314	230	260	226	211	338	334	975	961	605
AC-FT	31300	22560	20590	17940	17030	15470	18650	33470	39970	88720	71240	42860
CAL YR 1975	TOTAL	229736	MEAN	629	MAX	2440	MIN	200	AC-FT	455700		
WTR YR 1976	TOTAL	211653	MEAN	578	MAX	1700	MIN	211	AC-FT	419800		

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

WATER QUALITY RECORDS

LOCATION.--Daily water temperatures and samples for specific conductance collected at Farmers Canal diversion dam 1.0 mi (1.6 km) downstream from discharge station.

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1965 to September 1976 (discontinued).

WATER TEMPERATURES: October 1965 to September 1976 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,030 micromhos Jan. 25, 1974, Jan. 12, 1975; minimum daily, 243 micromhos Dec. 2, 1967.

WATER TEMPERATURES: Maximum, 27.0°C July 4, 25, 1967; minimum, 0.0°C on many days during winter period most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily observed, 1,000 micromhos Jan. 5, Feb. 2; minimum daily, 676 micromhos Aug. 4.

WATER TEMPERATURES: Maximum observed, 24.5°C June 8; 0.5°C on several days during January and February.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

		INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	
DATE	TIME									
NOV 03...	1615	418	910	13.0	2	9.9	368	280	67	
DEC 02...	0900	334	890	6.0	3	9.6	140	300	54	
JAN 05...	1630	A285	1000	3.5	1	10.4	46	300	62	
FEB 02...	1715	295	1000	6.0	6	10.2	312	300	46	
MAR 03...	1630	274	960	4.0	4	11.1	97	290	39	
APR 05...	1630	217	960	15.0	4	10.2	310	280	32	
MAY 03...	1630	466	940	16.0	8	9.5	318	250	43	
JUN 08...	1615	295	820	24.5	15	8.9	330	270	65	
JUL 07...	1845	1310	710	23.0	20	7.4	52	240	84	
AUG 03...	0800	1640	790	17.0	10	7.9	3170	270	98	
11...	1100	1100	--	20.0	--	--	--	240	68	
30...	1600	947	740	23.0	9	8.6	46	240	68	
SEP 27...	1700	662	890	14.0	7	9.6	42	260	53	
DATE		DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CaCO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
NOV 03...	79	20	84	2.2	6.5	260	0	213	220	
DEC 02...	83	22	87	2.2	7.2	300	0	246	220	
JAN 05...	87	21	77	1.9	5.8	290	0	238	210	
FEB 02...	83	22	94	2.4	6.7	310	0	254	220	
MAR 03...	82	21	94	2.4	6.5	300	3	251	230	
APR 05...	79	20	100	2.6	6.7	290	6	248	240	
MAY 03...	71	19	74	2.0	5.4	240	6	207	190	
JUN 08...	72	21	72	1.9	7.0	250	0	205	200	
JUL 07...	61	21	58	1.6	4.9	190	0	156	190	
AUG 03...	68	26	56	1.5	4.7	210	0	172	200	
11...	65	20	60	1.7	4.7	210	0	172	190	
30...	63	19	59	1.7	5.6	210	0	172	180	
SEP 27...	69	21	73	2.0	5.8	240	6	207	200	

A Daily mean discharge.

B Results based on colony count outside the acceptable range (non-ideal colony count).

PLATTE RIVER BASIN

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

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CHLORO- RIDE (CL) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO ₂) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
NOV								
03...	17	.6	23	582	.79	657	.86	.01
DEC								
02...	20	.6	28	623	.85	562	1.2	.04
JAN								
05...	19	.5	28	600	.82	462	1.3	.03
FEB								
02...	21	.6	29	638	.87	508	1.3	.02
MAR								
03...	21	.6	28	636	.87	471	1.4	.04
APR								
05...	21	.6	26	647	.88	379	1.0	.02
MAY								
03...	19	.6	19	527	.72	663	.66	.03
JUN								
08...	20	.6	17	536	.73	427	.63	.04
JUL								
07...	16	.6	7.6	459	.62	1620	.27	.03
AUG								
03...	15	.5	12	491	.67	2170	.25	.09
11...	14	.6	12	471	.64	1400	.54	.07
30...	13	.5	6.4	451	.61	1150	.66	.02
SEP								
27...	17	.6	20	533	.72	953	1.3	.06

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	834	910	944	878	917	897	896	735	761	718	714	717
2	859	896	944	894	917	887	905	743	750	731	723	713
3	883	908	958	890	924	890	899	761	755	727	737	726
4	872	908	944	892	901	880	907	762	765	718	676	724
5	872	916	931	876	898	885	907	786	747	721	686	729
6	824	899	931	871	935	894	884	775	786	711	701	729
7	863	896	931	919	935	896	894	741	798	718	710	735
8	885	903	911	939	928	917	889	734	798	713	719	738
9	885	903	893	925	942	907	954	716	823	713	726	743
10	885	918	906	885	914	912	912	711	820	707	733	759
11	865	855	904	889	881	898	899	706	795	715	709	752
12	869	923	899	910	903	899	896	716	800	705	694	799
13	867	913	901	895	872	901	901	720	741	710	703	777
14	865	931	898	902	874	907	901	715	730	705	700	774
15	852	913	904	907	874	813	907	729	735	705	717	782
16	815	937	914	883	885	892	839	728	735	720	806	788
17	815	928	899	906	894	899	793	731	751	708	717	792
18	859	928	917	921	894	910	837	740	747	712	707	775
19	870	942	938	906	892	892	843	731	744	708	699	777
20	874	885	912	906	892	901	859	741	746	712	717	785
21	885	928	910	907	883	903	859	742	750	707	713	785
22	885	917	912	908	898	892	848	743	743	717	702	779
23	883	917	908	920	916	892	837	749	791	719	714	798
24	842	928	907	893	909	901	843	754	752	713	698	803
25	874	943	897	893	904	892	817	749	770	717	712	787
26	889	943	896	913	904	892	818	738	773	705	707	800
27	907	941	910	901	890	897	787	730	765	696	726	813
28	910	910	901	916	889	828	777	746	757	717	708	814
29	890	913	917	915	892	889	794	766	771	732	723	764
30	912	927	880	943	---	896	777	754	761	727	715	811
31	912	---	878	927	---	901	---	748	---	719	720	---
MONTH	871	916	913	904	902	892	863	740	765	714	714	769

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.0	8.5	2.0	1.0	4.0	3.5	9.0	10.0	18.5	19.5	20.5	17.5
2	10.5	8.5	6.0	0.5	5.0	4.0	10.0	10.5	18.5	20.0	18.0	17.5
3	11.5	9.0	7.0	1.0	5.5	1.0	6.5	11.5	19.0	18.0	17.5	18.0
4	12.0	9.0	6.0	0.5	0.5	1.5	8.0	14.0	19.0	20.5	20.0	17.0
5	12.0	8.5	6.5	1.5	0.5	1.0	9.5	13.0	18.5	21.0	19.5	18.0
6	12.0	8.5	4.5	1.5	0.5	2.0	11.0	11.0	18.5	21.0	19.5	18.5
7	13.0	8.0	5.5	0.5	1.5	4.0	10.5	12.0	19.0	20.5	20.0	19.0
8	11.5	8.0	6.5	1.0	4.0	5.0	10.5	12.5	19.5	20.5	20.0	16.5
9	9.0	7.0	7.0	1.0	7.0	6.0	10.0	13.0	19.0	22.0	20.5	13.0
10	10.0	4.5	7.0	2.0	6.5	6.5	10.5	15.0	18.5	21.0	20.0	15.0
11	10.5	5.0	6.5	1.0	5.0	7.5	11.0	16.0	19.5	22.0	19.5	16.0
12	11.0	3.0	4.5	2.5	5.0	1.0	11.0	13.0	17.0	21.5	19.5	17.5
13	12.0	5.0	4.5	3.0	5.5	2.0	13.0	11.0	17.0	21.0	20.0	17.0
14	10.0	6.0	2.0	1.0	6.0	4.0	11.0	14.0	15.0	21.0	19.0	16.5
15	8.0	7.0	1.0	4.0	6.0	3.0	12.0	15.0	13.0	20.5	20.0	16.0
16	9.5	7.5	1.5	6.5	5.5	4.0	10.5	11.5	17.0	20.5	19.5	16.0
17	9.5	7.0	1.0	5.5	5.0	6.5	7.5	13.5	16.0	21.0	21.0	17.0
18	9.0	5.5	1.0	5.0	4.0	8.0	8.0	15.0	14.5	20.5	20.5	17.0
19	10.0	5.0	3.0	3.0	2.0	9.0	10.5	16.0	15.0	21.0	21.5	17.0
20	10.0	1.5	3.0	3.0	3.0	4.0	10.5	16.5	17.5	21.5	20.5	15.0
21	10.0	1.0	2.5	4.0	3.0	3.5	12.0	16.5	19.0	19.5	20.5	15.0
22	10.5	1.5	3.0	3.5	2.0	4.0	11.0	15.5	20.0	20.0	20.5	15.5
23	8.0	4.5	2.0	3.5	3.0	4.5	12.0	13.0	16.0	21.0	20.0	15.5
24	6.0	4.0	2.5	2.5	3.5	7.0	10.5	12.5	16.5	21.5	19.0	15.5
25	4.5	3.0	4.0	2.0	4.5	8.0	10.0	14.5	17.5	21.5	20.0	15.0
26	7.0	2.5	4.0	0.5	5.5	6.5	9.0	15.5	17.0	21.5	20.0	15.0
27	9.5	3.0	5.5	1.0	6.5	8.5	6.5	17.0	17.5	21.0	18.0	13.0
28	8.0	2.0	5.0	4.0	6.5	7.5	6.0	18.5	18.5	21.5	17.5	12.0
29	7.5	1.5	2.5	5.0	5.0	7.0	8.5	18.0	19.5	21.0	18.5	12.0
30	8.5	1.0	4.0	6.0	---	6.0	9.0	17.0	19.0	21.0	19.0	13.0
31	10.5	---	2.5	3.5	---	5.5	---	17.5	---	21.5	18.0	---
MONTH	9.5	5.0	4.0	2.5	4.0	5.0	10.0	14.0	17.5	21.0	19.5	16.0

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

		INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)						
DATE	TIME	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	BED MAT. FALL DIAM. % FINER THAN 8.00 MM		
OCT 09...	0955	490	8.0	30	40						
NOV 03...	1500	418	12.0	32	36						
DEC 02...	1055	334	6.0	72	65						
JAN 15...	1420	298	4.5	82	66						
FEB 11...	1320	338	5.0	84	77						
MAR 16...	1300	250	9.0	59	40						
APR 06...	1245	223	10.0	28	17						
JUN 04...	1310	426	21.0	783	901						
JUL 14...	1235	1440	22.0	165	642						
AUG 11...	1100	1100	20.0	158	469						
SEP 09...	1300	870	15.5	2	4.7						
JUN 09...	1310	426	21.0	0	0	3	45	78	90	98	100

PLATTE RIVER BASIN

06677500 HORSE CREEK NEAR LYMAN, NE

LOCATION.--Lat 41°56'21", long 103°59'13", in SE1/4NE1/4 sec.25, T.23 N., R.58 W., Scotts Bluff County, Hydrologic Unit 10180012, on right bank 10 ft (3 m) upstream from county highway bridge, 1.8 mi (2.9 km) upstream from mouth, 2.2 mi (3.5 km) downstream from Owl Creek, and 3.2 mi (5.1 km) northeast of Lyman.

DRAINAGE AREA.--1,570 mi² (4,070 km²), approximately, of which about 40 mi² (100 km²) is noncontributing.

PERIOD OF RECORD.--February 1931 to current year.

REVISED RECORDS.--WSP 926: 1940(M). WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,010 ft (1,222 m), from topographic map. See WSP 2118 for history of changes prior to Apr. 17, 1967.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by ground-water withdrawals and diversions for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--45 years, 66.5 ft³/s (1.883 m³/s), 48,180 acre-ft/yr (59.4 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,110 ft³/s (145 m³/s) June 6, 1967, gage height, 10.82 ft (3.298 m), from rating curve extended above 1,900 ft³/s (53.8 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.4 ft³/s (0.011 m³/s) Feb. 1, 2, 1949.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 383 ft³/s (10.8 m³/s) May 23, gage height, 4.04 ft (1.231 m); minimum daily, 8.0 ft³/s (0.23 m³/s) Jan. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	51	38	16	37	25	19	19	210	199	142	105
2	169	50	43	14	38	23	18	18	177	181	177	111
3	133	48	40	12	38	23	18	18	182	181	201	125
4	115	47	38	10	20	22	18	17	181	177	195	129
5	105	46	36	8.0	25	22	18	17	204	197	174	140
6	99	46	36	8.0	31	24	19	18	222	147	168	157
7	90	45	35	9.0	37	24	20	18	226	134	157	163
8	85	44	36	11	42	27	21	17	201	115	142	188
9	83	44	36	12	52	26	20	18	175	103	129	214
10	80	43	35	13	46	24	18	17	181	81	112	228
11	79	41	35	14	40	24	18	17	197	81	107	255
12	75	40	35	15	42	24	18	17	197	81	107	251
13	73	42	33	17	40	24	17	58	195	72	90	216
14	71	42	24	17	38	25	17	167	216	80	87	232
15	69	41	25	24	36	26	17	227	253	42	87	234
16	67	40	28	30	35	27	27	318	314	42	94	234
17	65	40	30	30	34	26	47	339	329	40	87	232
18	63	39	30	31	32	24	32	288	302	43	86	224
19	62	35	30	30	31	22	26	199	255	46	90	224
20	60	35	28	29	31	22	24	157	232	48	84	228
21	59	35	28	29	24	22	22	129	201	58	84	228
22	58	35	29	30	25	22	22	122	197	71	82	230
23	59	35	28	33	29	22	20	249	255	56	83	234
24	60	33	28	31	29	20	20	346	255	57	84	240
25	57	32	30	24	28	20	20	322	191	86	82	277
26	60	32	31	26	27	20	20	305	179	174	84	295
27	62	32	32	28	26	20	22	282	218	165	88	302
28	56	32	30	30	26	19	23	230	218	152	97	300
29	54	32	32	28	25	19	22	220	172	132	103	291
30	54	30	31	32	---	19	20	222	147	129	103	300
31	52	---	22	37	---	19	---	218	---	141	101	---
TOTAL	2474	1187	992	678.0	964	706	643	4609	6482	3311	3507	6587
MEAN	79.8	39.6	32.0	21.9	33.2	22.8	21.4	149	216	107	113	220
MAX	200	51	43	37	52	27	47	346	329	199	201	302
MIN	52	30	22	8.0	20	19	17	17	147	40	82	105
AC-FT	4910	2350	1970	1340	1910	1400	1280	9140	12860	6570	6960	13070
CAL YR 1975	TOTAL	32868.0	MEAN	90.0	MAX	373	MIN	5.0	AC-FT	65190		
WTR YR 1976	TOTAL	32140.0	MEAN	87.8	MAX	346	MIN	8.0	AC-FT	63750		

PLATTE RIVER BASIN

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06678000 SHEEP CREEK NEAR MORRILL, NE

LOCATION.--Lat 41°57'50", long 103°56'20", in NW1/4SW1/4 sec.16, T.23 N., R.57 W., Scotts Bluff County, Hydrologic Unit 10180009, on right bank 40 ft (12 m) upstream from Burlington Northern Inc. bridge, 50 ft (15 m) downstream from bridge on U.S. Highway 26, 1 mi (2 km) west of Morrill, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--362 mi² (938 km²), of which about 25 mi² (65 km²) is noncontributing.

PERIOD OF RECORD.--October 1931 to current year.

REVISED RECORDS.--WDR NE-67: Drainage area. WSP 2118: 1936(M), 1946(M).

GAGE.--Water-stage recorder. Datum of gage is 3,995.04 ft (1,217.688 m) above mean sea level. Prior to Apr. 14, 1940, nonrecording gage at site 20 ft (6 m) upstream at same datum.

REMARKS.--Records good. Natural flow of stream affected by ground-water withdrawals and diversions for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--45 years, 55.0 ft³/s (1.558 m³/s), 39,850 acre-ft/yr (49.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 413 ft³/s (11.7 m³/s) June 27, 1955, gage height, 6.52 ft (1.987 m), from floodmark; maximum gage height, 6.75 ft (2.057 m) Aug. 2, 1932, from floodmark, due to break in Interstate Canal (discharge not determined); minimum daily discharge, 0.1 ft³/s (0.003 m³/s) Dec. 16, 23, 1956, Jan. 18, Mar. 12, 1957, result of diversion for construction upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 169 ft³/s (4.79 m³/s) Sept. 25, gage height, 2.89 ft (0.881 m); minimum daily, 3.0 ft³/s (0.085 m³/s) May 17, 18, June 24-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	120	102	85	89	81	78	74	3.6	3.3	5.1	3.9
2	134	120	103	94	89	81	78	73	24	3.3	6.0	3.9
3	133	118	102	96	89	78	76	73	6.3	3.6	5.4	3.9
4	133	117	101	97	88	79	76	74	3.9	3.6	5.4	3.9
5	132	115	102	97	88	78	75	74	3.9	3.6	5.4	3.9
6	132	113	101	91	88	78	79	74	3.6	3.9	5.4	3.9
7	132	111	101	86	90	78	79	74	3.9	3.9	5.4	3.9
8	131	110	101	86	90	78	82	74	3.6	3.9	5.4	3.9
9	131	110	101	87	90	78	80	74	3.9	3.9	5.1	3.9
10	132	108	99	86	90	78	79	74	3.6	3.9	5.4	3.6
11	131	108	98	86	87	79	77	76	3.6	4.2	5.7	3.3
12	131	107	98	87	87	78	74	71	3.3	4.2	5.7	3.6
13	131	107	97	87	87	78	75	68	3.6	4.2	5.7	3.6
14	131	107	96	87	86	79	75	70	3.6	3.9	5.1	3.6
15	130	106	96	88	85	79	75	73	3.6	4.2	5.1	3.6
16	130	105	94	89	85	78	86	35	3.6	4.2	4.8	3.6
17	130	105	95	90	85	79	85	3.0	3.6	4.2	4.8	3.6
18	130	104	96	90	85	79	81	3.0	3.6	4.5	4.8	3.3
19	130	103	94	87	83	79	80	3.6	3.6	4.2	4.8	3.9
20	130	102	94	88	83	80	79	3.6	3.6	5.1	4.5	3.6
21	130	102	92	88	83	80	79	3.6	3.6	5.1	4.5	3.6
22	129	102	93	88	83	80	78	4.2	4.2	5.1	4.8	3.6
23	134	102	93	87	82	78	78	21	3.6	5.1	4.8	3.6
24	135	102	94	88	82	80	77	72	3.0	5.1	4.8	4.2
25	134	102	94	86	82	80	76	90	3.0	5.1	5.1	93
26	135	102	94	85	81	78	77	89	3.0	5.1	5.1	135
27	135	102	94	86	81	78	78	33	3.0	11	4.2	141
28	126	102	94	86	81	80	78	4.2	3.0	5.1	4.2	141
29	126	100	94	88	81	79	77	4.2	3.3	4.5	4.2	141
30	126	99	94	89	---	79	75	4.2	3.3	4.5	4.2	134
31	124	---	94	90	---	78	---	3.9	---	4.8	3.9	---
TOTAL	4062	3211	3001	2745	2480	2445	2342	1473.5	129.0	140.3	154.8	874.4
MEAN	131	107	96.8	88.5	85.5	78.9	78.1	47.5	4.30	4.53	4.99	29.1
MAX	135	120	103	97	90	81	86	90	24	11	6.0	141
MIN	124	99	92	85	81	78	74	3.0	3.0	3.3	3.9	3.3
AC-FT	8060	6370	5950	5440	4920	4850	4650	2920	256	278	307	1730
CAL YR 1975	TOTAL	23200.2	MEAN	63.6	MAX	137	MIN	1.2	AC-FT	46020		
WTR YR 1976	TOTAL	23058.0	MEAN	63.0	MAX	141	MIN	3.0	AC-FT	45740		

PLATTE RIVER BASIN

06679000 DRY SPOTTEDTAIL CREEK AT MITCHELL, NE

LOCATION.--Lat 41°56'45", long 103°49'35", at southeast corner of sec.20, T.23 N., R.56 W., Scotts Bluff County, Hydrologic Unit 10180009, on right bank 5 ft (2 m) upstream from bridge on county road, 0.5 mi (0.8 km) west of Mitchell, and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--77.2 mi² (199.9 km²).

PERIOD OF RECORD.--October 1948 to current year.

REVISED RECORDS.--WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,943.75 ft (1,202.055 m) above mean sea level. Prior to Oct. 1, 1958, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good. Natural flow of stream affected by ground-water withdrawals and diversions for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--28 years, 34.1 ft³/s (0.966 m³/s), 24,710 acre-ft/yr (30.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,010 ft³/s (56.9 m³/s) June 24, 1951, gage height, 8.55 ft (2.606 m), present datum; minimum daily, 1.6 ft³/s (0.045 m³/s) June 28, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 182 ft³/s (5.15 m³/s) July 21, gage height, 2.55 ft (0.777 m); minimum daily, 12 ft³/s (0.34 m³/s) Jan. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	32	24	14	16	22	18	20	35	49	109	64
2	54	33	25	14	16	21	18	20	44	53	121	65
3	51	32	26	16	16	21	18	18	39	53	109	67
4	42	32	26	16	16	21	18	19	38	55	100	67
5	43	32	26	15	15	21	18	19	67	60	93	74
6	45	32	27	14	16	21	19	18	35	72	88	74
7	44	31	27	14	15	21	20	18	34	69	87	63
8	40	30	27	14	17	21	20	19	33	54	84	61
9	39	29	27	12	17	21	19	18	31	54	65	64
10	35	29	27	12	17	21	17	26	31	47	58	65
11	34	29	26	14	17	21	16	48	31	50	59	61
12	35	31	26	16	17	18	15	44	30	50	59	59
13	36	30	25	16	18	20	14	37	32	53	62	55
14	36	30	24	14	19	20	13	40	35	51	60	57
15	36	30	23	14	20	20	13	50	35	47	59	66
16	35	29	23	14	20	20	15	45	34	46	64	70
17	35	29	23	15	20	20	17	41	33	48	58	77
18	35	29	21	15	20	20	15	42	32	49	62	80
19	33	29	20	14	20	20	14	41	35	50	66	80
20	35	28	20	14	21	19	16	47	31	52	70	76
21	32	28	19	14	21	19	16	49	29	68	79	76
22	32	26	18	15	22	19	15	58	55	65	80	79
23	33	28	17	15	22	19	16	76	61	67	74	80
24	34	27	18	15	22	19	16	56	37	66	68	84
25	36	26	18	15	22	19	16	55	36	73	73	112
26	37	24	18	15	22	19	18	58	36	76	72	129
27	36	25	19	14	22	19	21	43	34	88	72	121
28	35	24	19	15	22	19	22	41	35	93	76	119
29	34	24	18	15	22	19	21	46	38	87	76	130
30	34	23	19	15	---	19	21	47	42	74	69	104
31	33	---	19	15	---	18	---	37	---	90	62	---
TOTAL	1175	861	695	450	550	617	515	1196	1118	1909	2334	2379
MEAN	37.9	28.7	22.4	14.5	19.0	19.9	17.2	38.6	37.3	61.6	75.3	79.3
MAX	56	33	27	16	22	22	22	76	67	93	121	130
MIN	32	23	17	12	15	18	13	18	29	46	58	55
AC-FT	2330	1710	1380	893	1090	1220	1020	2370	2220	3790	4630	4720
CAL YR 1975	TOTAL	13609	MEAN 37.3	MAX 119	MIN 15	AC-FT 26990						
WTR YR 1976	TOTAL	13799	MEAN 37.7	MAX 130	MIN 12	AC-FT 27370						

PLATTE RIVER BASIN

71

06679500 NORTH PLATTE RIVER AT MITCHELL, NE

LOCATION.--Lat 41°55'38", long 103°48'48", in NE1/4NE1/4 sec.33, T.23 N., R.56 W., Scotts Bluff County, Hydrologic Unit 10180009, near right bank of main channel on downstream side of pier of bridge on State Highway 29, 0.5 mi (0.8 km) south of Mitchell.

DRAINAGE AREA (REVISED).--24,300 mi² (62,900 km²), approximately, of which about 22,300 mi² (57,800 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide basin is not included.

PERIOD OF RECORD.--June 1901 to September 1910, May to December 1911, February 1912 to July 1913 (gage heights only), May 1916 to October 1918 (irrigation seasons only), May 1920 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,929.3 ft (1,197.65 m) above mean sea level. See WSP 1918 for history of changes prior to May 27, 1960. May 27, 1960, to Aug. 24, 1971, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,500 ft³/s (779 m³/s) June 3, 1909, gage height, 6.45 ft (1.966 m), datum then in use, from graph based on gage readings, from rating curve extended above 17,000 ft³/s (481 m³/s); minimum daily observed, 25 ft³/s (0.71 m³/s) Sept. 25-29, 1908.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170 ft³/s (33.1 m³/s) Sept. 30, gage height, 4.05 ft (1.234 m); minimum daily, 224 ft³/s (6.34 m³/s) July 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1080	795	645	500	610	535	454	730	490	312	585	273
2	1010	790	660	440	610	540	445	815	497	312	655	284
3	945	790	665	460	605	530	445	705	578	296	690	284
4	895	780	670	480	580	535	440	670	458	288	760	292
5	865	770	670	500	540	520	436	560	500	342	690	304
6	860	765	660	510	555	530	449	380	472	344	545	316
7	865	750	660	520	555	530	449	324	463	308	458	328
8	870	735	655	520	570	540	467	312	445	262	388	352
9	875	720	655	530	620	540	454	304	427	245	328	392
10	880	710	650	560	630	540	458	280	388	231	280	458
11	880	710	650	550	625	540	445	269	392	224	259	490
12	865	690	645	545	630	510	440	273	396	255	252	485
13	855	695	640	555	620	520	436	288	392	252	245	413
14	845	700	630	545	615	525	431	332	400	304	231	413
15	875	700	610	550	615	535	427	413	436	276	227	418
16	960	695	610	565	610	520	472	476	500	273	259	427
17	980	690	590	580	595	520	625	467	550	276	284	436
18	940	685	575	590	590	515	630	436	550	284	262	436
19	890	685	585	585	575	510	610	372	520	328	245	449
20	870	660	585	585	570	490	600	320	481	340	238	449
21	855	660	590	585	545	490	590	276	463	427	238	445
22	845	655	590	595	545	485	590	273	454	449	252	445
23	845	655	585	600	550	485	625	567	680	418	259	449
24	850	655	590	600	550	481	590	925	540	388	255	467
25	835	655	595	595	545	476	570	805	476	368	255	550
26	835	660	595	570	535	476	570	695	422	500	259	670
27	840	665	600	570	530	467	600	610	414	545	259	785
28	825	660	595	575	535	472	620	500	388	545	269	850
29	810	655	585	585	530	463	615	510	300	510	280	950
30	810	620	585	620	---	458	605	515	276	476	280	1100
31	805	---	600	610	---	458	---	490	---	445	273	---
TOTAL	27260	21055	19220	17175	16785	15736	15588	14892	13748	10823	10760	14410
MEAN	879	702	620	554	579	508	520	480	458	349	347	480
MAX	1080	795	670	620	630	540	630	925	680	545	760	1100
MIN	805	620	575	440	530	458	427	269	276	224	227	273
AC-FT	54070	41760	38120	34070	33290	31210	30920	29540	27270	21470	21340	28580
CAL YR 1975	TOTAL	215876	MEAN 591	MAX 1280	MIN 229	AC-FT 428200						
WTR YR 1976	TOTAL	197452	MEAN 539	MAX 1100	MIN 224	AC-FT 391600						

PLATTE RIVER BASIN

06680000 TUB SPRINGS NEAR SCOTTSBLUFF, NE

LOCATION.--Lat 41°54'55", long 103°42'55", in SW1/4SW1/4 sec.33, T.23 N., R.55 W., Scotts Bluff County, Hydrologic Unit 10180009, 50 ft (15 m) upstream from bridge, 0.2 mi (0.3 km) downstream from headgates of Enterprise Canal, 1.5 mi (2.4 km) upstream from mouth, and 3.5 mi (5.6 km) northwest of Scottsbluff.

PERIOD OF RECORD.--October 1948 to current year.

REVISED RECORDS.--WSP 1310: 1949(M).

GAGE.--Water-stage recorder. Datum of gage is 3,926.54 ft (1,196.809 m) above mean sea level. See WSP 1918 for history of changes prior to Sept. 9, 1952.

REMARKS.--Records good. Natural flow of stream affected by diversions for irrigation, spill from Enterprise Canal, and return flow from irrigated areas.

AVERAGE DISCHARGE.--28 years, 37.2 ft³/s (1.054 m³/s), 26,950 acre-ft/yr (33.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,610 ft³/s (45.6 m³/s) June 21, 1952, gage height not determined, on basis of slope-area measurement of peak flow caused by break in Interstate Canal; minimum daily, 0.70 ft³/s (0.020 m³/s) May 7, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 132 ft³/s (3.74 m³/s) Sept. 30, gage height, 1.90 ft (0.579 m); minimum daily, 15 ft³/s (0.42 m³/s) May 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	54	48	34	34	30	28	30	24	46	50	53
2	66	54	48	34	34	30	29	30	33	46	49	56
3	65	53	46	34	33	31	29	30	42	48	46	57
4	64	53	45	34	34	30	31	30	29	44	46	57
5	65	53	45	34	34	30	32	31	27	46	47	59
6	64	53	44	34	34	30	32	31	28	46	45	61
7	64	52	44	33	34	30	32	33	28	43	47	66
8	63	51	44	34	36	30	32	33	27	41	46	70
9	63	51	44	35	37	29	30	33	31	36	42	70
10	64	51	45	35	36	28	29	33	35	33	40	71
11	66	49	45	35	35	28	30	33	32	28	42	69
12	65	48	45	35	34	27	27	35	30	29	44	65
13	62	49	45	35	34	27	24	41	30	34	42	65
14	64	49	44	35	34	27	25	58	34	34	41	59
15	62	49	42	35	34	29	26	81	45	35	45	58
16	62	48	42	35	33	28	32	71	47	38	47	65
17	61	48	42	37	32	29	33	50	52	34	42	71
18	60	48	42	36	32	29	31	44	45	33	41	68
19	57	47	42	35	32	29	29	27	42	33	42	66
20	57	47	42	34	32	28	28	15	38	39	45	66
21	57	49	42	34	32	27	27	21	38	39	47	63
22	57	47	39	34	33	27	26	40	43	40	49	53
23	58	47	38	33	32	28	26	64	52	36	50	54
24	58	47	39	33	32	27	26	76	47	37	49	59
25	58	47	40	33	32	28	28	76	44	37	46	65
26	59	47	40	32	32	28	29	72	43	38	47	68
27	57	47	40	32	32	29	31	67	44	40	57	87
28	56	47	38	32	32	29	30	58	38	38	55	96
29	55	47	38	34	32	29	31	41	32	35	53	99
30	55	47	38	35	---	29	30	34	33	36	53	98
31	54	---	36	35	---	29	---	29	---	36	51	---
TOTAL	1885	1479	1312	1060	967	889	873	1347	1113	1178	1446	2014
MEAN	60.8	49.3	42.3	34.2	33.3	28.7	29.1	43.5	37.1	38.0	46.6	67.1
MAX	67	54	48	37	37	31	33	81	52	48	57	99
MIN	54	47	36	32	32	27	24	15	24	28	40	53
AC-FT	3740	2930	2600	2100	1920	1760	1730	2670	2210	2340	2870	3990
CAL YR 1975	TOTAL	16337	MEAN	44.8	MAX	102	MIN	17	AC-FT	32400		
WTR YR 1976	TOTAL	15563	MEAN	42.5	MAX	99	MIN	15	AC-FT	30870		

PLATTE RIVER BASIN

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06681000 WINTERS CREEK NEAR SCOTTSBLUFF, NE

LOCATION.--Lat 41°51'08", long 103°37'35", in NW1/4SE1/4 sec.30, T.22 N., R.54 W., Scotts Bluff County, Hydrologic Unit 10180009, on right bank 700 ft (213 m) downstream from bridge on U.S. Highway 26, 1 mi (2 km) upstream from mouth, and 1.5 mi (2.4 km) east of Scottsbluff.

PERIOD OF RECORD.--October 1931 to current year. Prior to October 1971, published as Winter Creek near Scottsbluff.

GAGE.--Water-stage recorder. Datum of gage is 3,860.8 ft (1,176.77 m) above mean sea level. Prior to Nov. 19, 1938, nonrecording gage at site 700 ft (210 m) upstream at different datum. Nov. 19, 1938, to Sept. 30, 1958, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good. Natural flow of stream affected by ground-water withdrawals and diversions for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--45 years, 53.2 ft³/s (1.507 m³/s), 38,540 acre-ft/yr (47.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,090 ft³/s (30.9 m³/s) June 10, 1957, gage height, 8.95 ft (2.728 m), present datum; maximum gage height, 9.34 ft (2.847 m), present datum, Jan. 7, 1949, backwater from snowdrifts; minimum daily discharge, 0.9 ft³/s (0.025 m³/s) July 5, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 147 ft³/s (4.16 m³/s) June 15, gage height, 3.07 ft (0.936 m); minimum daily, 7.1 ft³/s (0.20 m³/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	65	53	48	39	49	43	41	23	21	68	57
2	78	65	54	47	39	48	43	40	21	19	82	68
3	77	65	53	46	39	48	42	40	15	18	90	71
4	78	63	54	46	39	47	42	40	17	16	84	70
5	79	63	53	45	39	45	41	40	18	13	60	70
6	78	61	53	40	39	46	41	50	43	10	50	66
7	76	61	54	42	40	47	41	43	26	8.7	44	61
8	75	61	54	44	40	48	41	39	18	8.4	45	61
9	77	59	53	44	40	48	41	39	18	7.1	36	64
10	77	60	53	44	39	47	42	39	22	7.8	31	67
11	76	59	52	43	39	47	42	39	19	7.8	36	65
12	75	60	52	42	40	47	42	41	25	8.4	36	66
13	70	59	52	42	40	47	42	18	25	9.4	34	63
14	70	59	51	42	40	46	42	8.4	25	8.4	39	56
15	71	58	51	42	40	46	42	7.8	73	8.4	52	58
16	71	58	52	42	40	47	45	8.7	84	9.7	61	57
17	71	58	52	43	40	46	45	16	58	14	58	58
18	72	55	51	42	39	46	44	16	86	18	55	63
19	71	56	51	42	39	46	44	20	74	25	54	61
20	71	56	51	41	40	48	43	19	63	25	56	61
21	71	56	51	41	39	47	44	23	32	28	59	74
22	70	55	50	42	39	47	43	42	50	28	64	82
23	72	54	50	41	42	46	45	60	65	30	60	59
24	71	54	50	41	44	47	43	53	55	27	53	59
25	71	54	50	40	44	47	44	42	51	31	50	67
26	71	53	50	41	51	46	43	40	41	38	51	74
27	69	53	49	40	50	46	45	36	41	39	52	71
28	68	53	47	39	46	44	43	35	36	43	60	72
29	67	52	48	40	50	45	42	48	29	44	64	91
30	67	52	48	39	---	44	41	59	21	42	66	90
31	66	---	48	39	---	44	---	34	---	42	57	---
TOTAL	2258	1737	1590	1310	1195	1442	1281	1076.9	1174	655.1	1707	2002
MEAN	72.8	57.9	51.3	42.3	41.2	46.5	42.7	34.7	39.1	21.1	55.1	66.7
MAX	82	65	54	48	51	49	45	60	86	44	90	91
MIN	66	52	47	39	39	44	41	7.8	15	7.1	31	56
AC-FT	4480	3450	3150	2600	2370	2860	2540	2140	2330	1300	3390	3970
CAL YR 1975	TOTAL	18369.9	MEAN	50.3	MAX	112	MIN	8.3	AC-FT	36440		
WTR YR 1976	TOTAL	17428.0	MEAN	47.6	MAX	91	MIN	7.1	AC-FT	34570		

PLATTE RIVER BASIN

06681500 GERING DRAIN NEAR GERING, NE

LOCATION.--Lat 41°49'20", long 103°37'02", in SE1/4NE1/4 sec.6, T.21 N., R.54 W., Scotts Bluff County, Hydrologic Unit 10180009, near left bank on downstream side of bridge piling on county road, 0.2 mi (0.3 km) downstream from bridge on State Highway 92, 1 mi (2 km) upstream from mouth, and 2 mi (3 km) east of Gering.

PERIOD OF RECORD.--February 1931 to September 1945, October 1948 to current year.

REVISED RECORDS.--WSP 896: 1935(M).

GAGE.--Water-stage recorder. Datum of gage is 3,853.62 ft (1,174.583 m) above mean sea level (levels by Corps of Engineers). See WSP 1918 for history of changes prior to June 27, 1958. June 27, 1958, to Oct. 27, 1970, at datum 3.0 ft (0.91 m) higher. Oct. 28, 1970 to Dec. 8, 1975, at datum 1.0 ft (0.30 m) higher.

REMARKS.--Records good. Base flow is mainly return water from land irrigated by Fort Laramie Canal.

AVERAGE DISCHARGE.--42 years, 45.0 ft³/s (1.274 m³/s), 32,600 acre-ft/yr (40.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,560 ft³/s (271 m³/s) June 8, 1958, gage height, 14.0 ft (4.27 m), present datum, from floodmarks, from rating curve extended above 2,200 ft³/s (62.3 m³/s) on basis of slope-area measurements at gage heights 12.67 ft (3.862 m) and 14.0 ft (4.27 m) present datum; minimum daily, 5 ft³/s (0.14 m³/s) Aug. 13, 16, 19, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 203 ft³/s (5.75 m³/s) Sept. 14, gage height, 2.22 ft (0.677 m); minimum daily, 23 ft³/s (0.65 m³/s) Apr. 10, 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	37	32	25	28	28	25	25	129	86	116	118
2	60	37	32	28	28	28	27	25	149	75	123	116
3	48	37	32	28	28	27	26	25	143	86	128	123
4	46	37	32	29	26	28	26	25	140	81	123	129
5	46	37	32	29	26	26	26	25	143	74	122	152
6	46	37	32	26	26	24	26	25	140	84	120	160
7	45	37	32	25	28	25	25	31	142	84	120	167
8	43	37	31	24	31	25	28	59	143	82	118	174
9	42	37	30	28	31	26	26	62	151	82	118	172
10	43	37	30	28	30	26	23	64	160	80	100	176
11	43	35	29	27	29	26	24	70	152	80	94	172
12	43	34	29	28	28	26	25	70	149	75	90	172
13	44	35	29	28	28	26	25	63	151	78	88	190
14	42	35	29	27	27	25	25	57	161	82	88	187
15	42	35	29	28	26	26	25	112	158	82	87	170
16	42	35	29	30	26	26	33	138	149	82	92	165
17	42	35	29	33	28	26	36	126	133	80	88	163
18	42	34	31	33	28	26	27	108	120	80	87	169
19	42	35	30	30	27	26	26	74	120	80	84	172
20	42	32	29	28	30	25	25	61	122	80	86	176
21	42	32	29	28	28	26	25	61	114	90	90	161
22	42	32	29	29	27	26	24	65	110	92	90	158
23	44	32	29	28	28	26	24	114	131	86	94	158
24	44	32	29	30	28	26	23	108	111	92	93	167
25	42	32	30	29	27	26	23	80	114	94	94	165
26	45	32	29	27	27	26	25	76	123	108	94	181
27	43	32	29	28	27	26	26	49	128	105	92	183
28	42	32	28	28	28	27	29	68	124	102	93	178
29	39	30	27	31	27	27	25	76	110	105	100	134
30	40	33	28	31	---	26	25	92	87	106	106	99
31	37	---	25	29	---	26	---	133	---	105	110	---
TOTAL	1400	1034	920	880	806	809	778	2167	4007	2698	3128	4807
MEAN	45.2	34.5	29.7	28.4	27.8	26.1	25.9	69.9	134	87.0	101	160
MAX	97	37	32	33	31	28	36	138	161	108	128	190
MIN	37	30	25	24	26	24	23	25	87	74	84	99
AC-FT	2780	2050	1820	1750	1600	1600	1540	4300	7950	5350	6200	9530
CAL YR 1975	TOTAL	26268	MEAN 72.0	MAX 211	MIN 10	AC-FT 52100						
WTR YB 1976	TOTAL	23434	MEAN 64.0	MAX 190	MIN 23	AC-FT 46483						

PLATTE RIVER BASIN

75

06682000 NORTH PLATTE RIVER NEAR MINATARE, NE

LOCATION.--Main channel gage: Lat 41°47'26", long 103°31'11", in NE1/4SE1/4 sec.13, T.21 N., R.54 W., Scotts Bluff County, Hydrologic Unit 10180009, on left bank 220 ft (67 m) upstream from bridge on State Highway 326 and 1.8 mi (2.9 km) southwest of Minatare. Nine Mile channel gage: Lat 41°47'32", long 103°31'08", in NE1/4SE1/4 sec.13, T.21 N., R.54 W., Scotts Bluff County, Hydrologic Unit 10180009, on left bank 50 ft (15 m) upstream from bridge on State Highway 326 and 750 ft (229 m) north of main channel bridge.

DRAINAGE AREA (REVISED).--24,700 mi² (64,000 km²), approximately, of which about 22,740 mi² (58,900 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide basin is not included.

PERIOD OF RECORD.--May to August 1916, May 1917 to September 1918, May to October 1919, April to September 1922, June 1923 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1710: Drainage area.

GAGE.--Main channel: Water-stage recorder. Datum of gage is 3,810.7 ft (1,161.50 m) above mean sea level. Nov. 2, 1966 to July 13, 1976 water-stage recorder at datum 1.00 ft (0.305 m) higher. See WDR NE-72 for history of changes prior to Nov. 2, 1966.

Nine Mile channel: Water-stage recorder. Datum of gage is 3,812.3 ft (1,161.99 m) above mean sea level. See WDR NE-72 for history of changes prior to Aug. 25, 1971.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. River flows in two channels for which separate records are computed; figures given herein represent combined discharge.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,500 ft³/s (552 m³/s) July 2, 1917, from graph based on mean daily discharge and discharge measurement published by State engineer of Nebraska; minimum daily, 11 ft³/s (0.31 m³/s) Aug. 16-18, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 18, 1921, may have been greater than flood of July 2, 1917.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,660 ft³/s (47.0 m³/s) Sept. 30; minimum daily, 238 ft³/s (6.74 m³/s) July 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	1160	985	796	888	790	725	912	740	451	749	501
2	1400	1150	1000	720	888	788	714	1010	732	451	936	515
3	1330	1140	1010	690	888	781	701	926	830	467	967	530
4	1300	1130	1010	700	874	786	700	862	760	446	995	571
5	1280	1120	1010	739	818	783	694	820	757	409	990	601
6	1280	1120	999	736	800	776	699	688	769	392	882	628
7	1270	1110	990	741	820	780	706	560	761	363	781	653
8	1250	1090	990	750	825	783	725	573	758	335	704	709
9	1230	1080	979	750	861	786	701	572	709	304	608	753
10	1230	1080	970	797	882	777	677	538	706	257	530	848
11	1240	1070	960	805	874	782	668	505	668	238	491	898
12	1240	1050	951	806	872	758	662	472	643	248	455	924
13	1240	1060	940	803	872	764	648	456	652	247	430	897
14	1220	1060	923	798	870	773	639	457	676	276	425	867
15	1220	1050	902	807	863	785	625	591	740	288	421	855
16	1290	1050	914	830	856	783	677	744	809	304	442	864
17	1340	1040	897	850	849	783	825	695	780	312	473	875
18	1330	1020	910	876	837	776	880	638	846	319	457	878
19	1270	1030	888	872	824	774	870	547	812	335	430	874
20	1250	1010	881	882	825	760	841	439	783	383	409	876
21	1230	1010	890	880	804	764	819	411	714	446	417	838
22	1210	1020	897	888	808	776	820	454	676	507	427	849
23	1220	1010	898	878	813	778	839	716	883	509	435	799
24	1240	1020	888	894	814	774	831	1060	815	498	447	807
25	1220	1020	899	905	800	767	807	1090	762	496	442	865
26	1220	1000	896	854	795	754	812	1040	693	548	440	1030
27	1230	1010	888	845	796	752	844	941	659	622	451	1170
28	1200	1010	890	854	799	744	885	811	638	677	462	1300
29	1190	996	880	862	791	743	885	749	558	658	469	1390
30	1180	984	877	903	---	739	878	772	472	631	485	1640
31	1170	---	882	898	---	734	---	750	---	601	495	---
TOTAL	39020	31700	28894	25409	24306	23893	22797	21799	21801	13018	17545	25805
MEAN	1259	1057	932	820	838	771	760	703	727	420	566	860
MAX	1500	1160	1010	905	888	790	885	1090	883	677	995	1640
MIN	1170	984	877	690	791	734	625	411	472	238	409	501
AC-FT	77400	62880	57310	50400	48210	47390	45220	43240	43240	25820	34800	51180
CAL YR 1975	TOTAL	315997	MEAN 866	MAX 1600	MIN 340	AC-FT 626800						
WTR YR 1976	TOTAL	295987	MEAN 809	MAX 1640	MIN 238	AC-FT 587100						

PLATTE RIVER BASIN

06682500 NINEMILE DRAIN NEAR MC GREW, NE

LOCATION.--Lat 41°46'15", long 103°25'18", in SE1/4SE1/4 sec.23, T.21 N., R.53 W., Scotts Bluff County, Hydrologic Unit 10180009, on right bank 15 ft (5 m) upstream from highway bridge, 0.5 mi (0.8 km) upstream from mouth, and 1.5 mi (2.4 km) north of McGrew.

PERIOD OF RECORD.--January 1932 to current year.

REVISED RECORDS.--WSP 926: 1936.

GAGE.--Water-stage recorder. Altitude of gage is 3,780 ft (1,152 m), from topographic map. Prior to Apr. 14, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good. Flow affected by ground-water withdrawals and diversions for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--44 years, 118 ft³/s (3.342 m³/s), 85,490 acre-ft/yr (0.105 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 908 ft³/s (25.7 m³/s) June 2, 1971, gage height, 5.31 ft (1.618 m); minimum daily, 24 ft³/s (0.68 m³/s) July 5, 1961, May 13, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 309 ft³/s (8.75 m³/s) Aug. 8, gage height, 2.43 ft (0.741 m); maximum gage height, 2.50 ft (0.762 m) Sept. 29; minimum daily discharge, 66 ft³/s (1.87 m³/s) Apr. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	128	110	90	85	82	70	100	143	130	243	242
2	203	128	109	110	85	82	68	104	135	127	260	242
3	194	127	108	90	85	81	69	94	137	128	280	238
4	188	127	107	90	84	81	68	89	136	128	295	236
5	180	128	106	90	84	81	67	89	133	144	291	236
6	177	127	106	96	84	81	67	88	132	127	287	238
7	169	124	106	97	86	80	67	110	121	136	297	233
8	166	121	106	110	88	80	70	84	133	123	285	237
9	161	121	105	111	87	77	68	86	124	111	246	242
10	156	120	105	97	85	76	66	93	124	108	216	246
11	150	120	103	96	84	76	67	91	122	112	206	242
12	148	120	102	95	83	72	70	77	118	129	211	244
13	150	122	102	92	83	75	94	70	125	139	214	243
14	150	122	100	92	83	75	99	78	128	132	211	242
15	143	120	100	92	81	75	101	83	163	127	215	244
16	131	118	100	92	81	74	112	99	201	132	230	240
17	127	117	98	92	81	74	117	113	205	134	232	240
18	132	115	98	91	82	75	117	155	210	142	231	232
19	133	115	98	89	83	75	113	123	203	160	229	233
20	132	113	98	90	82	78	104	88	202	167	239	238
21	131	114	98	91	83	77	98	78	182	177	252	235
22	131	114	97	90	82	77	97	106	158	183	263	230
23	134	114	97	90	82	76	97	176	141	184	253	231
24	134	114	96	89	82	75	96	156	134	184	237	231
25	134	113	95	89	81	73	97	141	132	189	233	240
26	137	113	95	85	81	73	100	134	131	190	234	233
27	134	113	94	83	81	73	108	128	134	180	233	228
28	132	111	92	83	81	72	111	130	135	180	241	231
29	131	110	92	84	81	71	105	139	130	188	242	247
30	131	109	93	86	---	72	101	138	121	184	246	250
31	128	---	84	85	---	71	---	136	---	177	239	---
TOTAL	4661	3558	3100	2857	2410	2360	2684	3376	4393	4652	7591	7144
MEAN	150	119	100	92.2	83.1	76.1	89.5	109	146	150	245	238
MAX	214	128	110	111	88	82	117	176	210	190	297	250
MIN	127	109	84	83	81	71	66	70	118	108	206	228
AC-FT	9250	7060	6150	5670	4780	4680	5320	6700	8710	9230	15060	14170
CAL YR 1975	TOTAL	47234	MEAN	129	MAX	257	MIN	40	AC-FT	93690		
WTR YR 1976	TOTAL	48786	MEAN	133	MAX	297	MIN	66	AC-FT	96770		

PLATTE RIVER BASIN

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06682505 NORTH PLATTE RIVER AT MC GREW, NE

WATER QUALITY RECORDS

LOCATION.--Lat 41°45'42", long 103°25'02", in SW1/4 sec.25, T.21 N., R.53 W., Scotts Bluff County, Hydrologic Unit 10180009, at bridge on county road 1.2 mi (1.9 km) north of State Highway 92, 0.3 mi (0.5 km) downstream from Ninemile Creek and 0.9 mi (1.4 km) north of McGrew.

PERIOD OF RECORD.--Chemical analyses: June 1973 to September 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
OCT 14...	0900	1360	988	7.3	9.5	30	10.6	6.3	320	530	22
NOV 17...	0845	1040	980	7.3	8.0	25	11.4	2.2	>6000	450	23
DEC 15...	0845	1030	864	7.3	.5	25	11.4	1.4	180	200	21
JAN 19...	0850	884	892	7.1	3.0	35	9.9	11	280	1220	22
FEB 18...	0845	926	960	7.4	5.0	30	9.9	2.2	3400	210	22
MAR 15...	0900	860	1020	7.4	5.0	30	9.8	3.2	250	500	22
APR 12...	0900	790	1020	7.4	12.0	25	8.8	2.8	180	920	22
MAY 17...	0845	733	860	7.4	12.0	95	8.4	3.4	>6000	4300	19
JUN 14...	0900	722	910	7.4	12.0	35	8.2	2.6	1100	900	21
JUL 19...	0900	438	984	7.5	20.0	120	7.0	3.6	3300	840	25
AUG 16...	0900	437	920	7.4	17.0	50	7.4	3.6	1000	2000	23
SEP 13...	0845	1070	890	7.5	15.0	80	5.8	4.5	440	--	22

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	DISSOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DISSOLVED PHOSPHORUS (P) (MG/L) (00666)
OCT 14...	651	.89	2390	2.1	.09	.91	1.0	3.1	.13	.05
NOV 17...	--	.89	1840	2.4	.11	1.1	1.2	3.6	.08	.03
DEC 15...	663	.90	1840	2.8	.18	1.0	1.2	4.0	.11	.06
JAN 19...	681	.93	1630	2.9	.10	.60	.70	3.6	.13	.07
FEB 18...	--	.87	1600	2.9	.09	1.0	1.1	4.0	.15	.04
MAR 15...	673	.92	1560	3.2	.34	1.1	1.4	4.6	.15	.10
APR 12...	670	.91	1430	2.9	.08	.59	.67	3.6	.12	.07
MAY 17...	--	.81	1170	1.5	.09	1.1	1.2	2.7	.30	.04
JUN 14...	631	.86	1230	1.6	.03	.67	.70	2.3	.15	.05
JUL 19...	648	.88	766	2.4	.00	1.1	1.1	3.5	.42	.08
AUG 16...	--	.87	757	2.3	.05	.64	.69	3.0	.21	.05
SEP 13...	616	.84	1780	1.9	.02	1.1	1.1	3.0	.34	.06

PLATTE RIVER BASIN

06682505 NORTH PLATTE RIVER AT MC GREW, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
NOV 17...	0845	4	310	41	88	21	99	2.5	11	323
FEB 18...	0845	8	290	26	84	20	97	2.5	12	324
MAY 17...	0845	2	270	47	74	21	90	2.4	8.8	274
AUG 16...	0900	25	310	60	91	21	96	2.4	11	309

DATE	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
NOV 17...	0	265	220	.5	35	657	8	150	0	0
FEB 18...	0	266	210	.5	35	641	--	140	--	--
MAY 17...	0	225	220	.4	23	592	4	210	1	<10
AUG 16...	0	253	210	.5	37	642	--	150	--	--

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
NOV 17...	40	10	3	170	1.4	.0	1.4	3	0	90
FEB 18...	--	10	--	120	--	--	--	--	--	--
MAY 17...	40	20	11	50	<.5	.0	<.5	4	0	100
AUG 16...	--	10	--	330	--	--	--	--	--	--

PLATTE RIVER BASIN

79

06683000 BAYARD SUGAR FACTORY DRAIN NEAR BAYARD, NE

LOCATION.--Lat 41°44'10", long 103°19'53", in SE1/4NE1/4 sec.5, T.20 N., R.52 W., Morrill County, Hydrologic Unit 10180009, on right bank 600 ft (183 m) upstream from mouth and 1.2 mi (1.9 km) south of Bayard.

PERIOD OF RECORD.--October 1931 to current year.

REVISED RECORDS.--WSP 1310: 1937(N), 1941.

GAGE.--Water-stage recorder and concrete flume. Datum of gage is 3,746.28 ft (1,141.866 m) above mean sea level. Prior to Jan. 7, 1939, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow affected by ground-water withdrawals and diversions for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--45 years, 28.5 ft³/s (0.807 m³/s), 20,650 acre-ft/yr (25.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 391 ft³/s (11.1 m³/s) July 3, 1956, gage height, 4.32 ft (1.317 m); no flow June 1, 2, July 4-8, 1934, May 16, 17, 1936, Aug. 8, 9, 1960, Apr. 29, 30, May 4, 5, 1962, May 23-31, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 97 ft³/s (2.75 m³/s) May 23, gage height, 1.90 ft (0.579 m); minimum daily, 0.76 ft³/s (0.022 m³/s) Apr. 22, 23, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	39	27	20	23	20	18	1.1	19	12	53	35
2	53	37	28	20	23	20	17	4.3	14	14	59	37
3	50	36	26	18	22	20	17	4.5	12	16	60	39
4	62	36	25	18	19	19	17	1.7	10	16	65	39
5	62	37	25	19	20	19	17	1.2	18	17	54	37
6	60	36	25	20	19	20	9.7	1.2	18	15	46	35
7	58	34	25	20	20	20	3.9	1.5	14	15	44	30
8	56	35	26	20	24	20	2.6	1.7	5.9	12	42	31
9	57	34	26	20	23	20	2.0	1.9	4.5	12	50	34
10	57	32	26	21	22	19	1.8	1.8	6.0	9.4	48	34
11	55	28	26	20	21	18	1.6	4.2	8.6	8.3	43	31
12	54	27	26	21	20	18	2.0	4.9	8.0	9.2	41	29
13	51	26	26	21	17	18	11	5.0	8.2	7.3	41	30
14	57	27	24	21	18	18	6.9	6.1	10	7.1	42	30
15	48	27	24	21	22	18	6.9	6.4	20	6.4	46	40
16	42	27	25	22	22	18	9.9	13	18	10	52	54
17	41	26	24	25	22	18	12	18	16	15	48	56
18	40	26	24	23	21	18	13	28	16	16	48	51
19	36	27	25	22	21	18	11	19	19	24	50	51
20	36	25	24	21	21	18	11	14	14	28	51	50
21	36	26	24	21	21	18	7.9	11	14	33	53	45
22	36	26	24	22	21	18	.76	21	13	38	50	41
23	38	28	23	22	21	18	.76	61	26	35	48	38
24	40	27	23	22	21	19	.87	56	22	35	47	42
25	41	27	23	21	20	19	.87	43	23	34	50	48
26	44	27	22	20	20	18	.81	41	24	32	50	53
27	45	26	23	21	21	18	.76	37	25	29	51	50
28	41	26	22	21	21	18	1.2	22	21	30	46	47
29	41	24	22	23	21	18	1.4	10	19	27	42	48
30	40	24	22	24	---	18	1.1	23	13	27	42	49
31	39	---	20	23	---	18	---	25	---	36	38	---
TOTAL	1478	883	755	653	607	577	207.73	489.5	459.2	625.7	1500	1234
MEAN	47.7	29.4	24.4	21.1	20.9	18.6	6.92	15.8	15.3	20.2	48.4	41.1
MAX	62	39	28	25	24	20	18	61	26	38	65	56
MIN	36	24	20	18	17	18	.76	1.1	4.5	6.4	38	29
AC-FT	2930	1750	1500	1300	1200	1140	412	971	911	1240	2980	2450
CAL YR 1975	TOTAL	9469.10	MEAN	25.9	MAX	62	MIN	2.1	AC-FT	18780		
WTR YR 1976	TOTAL	9469.13	MEAN	25.9	MAX	65	MIN	.76	AC-FT	18780		

PLATTE RIVER BASIN

06684000 RED WILLOW CREEK NEAR BAYARD, NE

LOCATION.--Lat 41°42'50", long 103°15'10", in NE1/4NE1/4 sec.13, T.20 N., R.52 W., Morrill County, Hydrologic Unit 10180009, on left bank 75 ft (23 m) downstream from timber bridge, 0.2 mi (0.3 km) downstream from Wild Horse drain, 0.8 mi (1.3 km) upstream from mouth, and 4.5 mi (7.2 km) southeast of Bayard.

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1937(M).

GAGE.--Water-stage recorder. Datum of gage is 3,716.29 ft (1,132.725 m) above mean sea level. Prior to Nov. 18, 1938, nonrecording gage and Nov. 18, 1938, to Apr. 15, 1946, water-stage recorder at site 65 ft (19.8 m) upstream at datum 1.00 ft (0.305 m) higher, and Apr. 16, 1946, to June 12, 1957, at present datum.

REMARKS.--Records good. Natural flow of stream affected by diversions and ground-water withdrawals for irrigation, return flow from irrigated areas, and occasional waste into creek from Tri-State canal.

AVERAGE DISCHARGE.--45 years, 87.3 ft³/s (2.472 m³/s), 63,250 acre-ft/yr (78.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft³/s (65.7 m³/s) July 3, 1956, gage height, 7.33 ft (2.23 m); maximum gage height, 7.8 ft (2.38 m) May 10, 1942, from floodmark, present datum; minimum daily discharge, 15 ft³/s (0.42 m³/s) Apr. 23, 1935, Apr. 26, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 325 ft³/s (9.20 m³/s) Sept. 10, gage height, 1.93 ft (0.588 m); minimum daily, 53 ft³/s (1.50 m³/s) Apr. 10-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	98	84	79	73	64	56	74	107	106	122	208
2	156	98	86	83	73	64	56	75	103	105	144	199
3	139	97	85	76	72	63	55	75	128	115	149	213
4	124	96	84	74	72	64	56	77	106	104	150	227
5	121	96	81	74	70	64	55	81	107	121	152	228
6	119	95	80	74	69	63	55	78	108	117	172	236
7	117	94	80	73	67	63	55	73	90	100	154	246
8	114	91	80	74	70	63	56	79	112	95	143	248
9	111	90	80	74	72	63	56	220	95	93	137	248
10	111	90	81	74	69	63	53	177	91	77	123	270
11	110	88	80	74	67	62	53	140	92	73	97	290
12	108	88	80	74	67	64	53	144	80	73	91	286
13	107	90	81	73	69	69	55	123	75	70	92	271
14	108	91	79	73	69	68	58	106	94	69	93	272
15	110	92	79	73	67	65	58	104	204	82	102	245
16	109	92	79	73	67	65	73	140	239	82	109	207
17	109	92	79	76	67	64	78	160	209	81	98	162
18	109	91	79	77	67	63	75	165	196	75	108	158
19	108	90	79	74	69	62	72	102	176	80	119	159
20	108	89	79	73	68	60	68	64	158	84	129	158
21	106	87	79	73	69	60	58	59	128	104	152	146
22	105	88	79	73	70	60	69	70	134	102	176	141
23	105	91	79	73	71	59	66	145	177	104	172	150
24	106	88	77	73	69	60	70	234	175	108	165	160
25	105	83	77	72	66	59	72	219	178	105	179	166
26	106	83	77	70	65	58	73	178	186	104	177	182
27	104	83	79	72	65	58	80	81	176	93	172	175
28	102	81	77	70	64	58	84	78	170	96	168	178
29	100	81	77	72	64	57	78	92	146	98	191	199
30	99	79	77	74	---	57	77	111	118	96	219	256
31	99	---	80	73	---	57	---	127	---	97	215	---
TOTAL	3504	2692	2473	2290	1987	1919	1923	3651	4158	2909	4470	6284
MEAN	113	89.7	79.8	73.9	68.5	61.9	64.1	118	139	93.8	144	209
MAX	169	98	86	83	73	69	84	234	239	121	219	290
MIN	99	79	77	70	64	57	53	59	75	69	91	141
AC-FT	6950	5340	4910	4540	3940	3810	3810	7240	8250	5770	8870	12460
CAL YR 1975	TOTAL	39944	MEAN 109	MAX 276	MIN 40	AC-FT 79230						
WTR YR 1976	TOTAL	38260	MEAN 105	MAX 290	MIN 53	AC-FT 75890						

06684500 NORTH PLATTE RIVER AT BRIDGEPORT, NE

LOCATION.--Main channel gage: Lat 41°40'39", long 103°05'45", in NW1/4SW1/4 sec.28, T.20 N., R.50 W., Morrill County, Hydrologic Unit 10180009, on downstream side of pier near center of bridge on U.S. Highway 26, 0.5 mi (0.8 km) north of Bridgeport. Browns Creek channel gage: Lat 41°40'55", long 103°05'53", in NW1/4NW1/4 sec.28, T.20 N., R.50 W., Morrill County, on left bank 0.2 mi (0.3 km) upstream from culvert on U.S. Highway 26 and 0.8 mi (1.3 km) north of Bridgeport.

DRAINAGE AREA (REVISED).--25,300 mi² (65,500 km²), approximately, of which about 23,300 mi² (60,300 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide basin is not included.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1896 to October 1900 (no winter records most years), May 1902 to November 1906, June to August 1915, May 1916 to current year. Monthly discharge only for some years, published in WSP 1310. Published as "near Camp Clark" 1896-1900.

REVISED RECORDS.--WSP 1390: 1897, 1915. WBR NE-67: Drainage area.

GAGE.--Main channel: Water-stage recorder. Datum of gage is 3,656.14 ft (1,114.391 m) above mean sea level. See WSP 1918 for history of changes prior to Oct. 7, 1927.
Browns Creek channel: Water-stage recorder. Datum of gage is 3,663.51 ft (1,116.638 m) above mean sea level. See WSP 1918 for history of changes prior to June 1, 1943.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. River flows in two independently rated channels for which separate records are computed; figures herein represent combined discharge.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,900 ft³/s (705 m³/s) June 26, 1899, gage height, 5.39 ft (1.643 m), site and datum then in use, from graph based on gage readings; minimum daily, 55 ft³/s (1.56 m³/s) May 28, 1934, Aug. 15, 1940, but may have been less during periods of no record for Browns Creek channel.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,030 ft³/s (57.5 m³/s) Sept. 30; minimum daily, 294 ft³/s (8.33 m³/s) July 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1690	1470	1190	960	1060	933	870	987	1010	532	884	930
2	1700	1460	1190	950	1070	951	870	1030	978	509	1190	918
3	1640	1410	1190	1000	1080	915	870	1130	982	526	1310	920
4	1610	1360	1210	1050	1080	897	888	1040	1010	518	1370	977
5	1600	1360	1190	1160	1040	861	888	1000	941	545	1390	997
6	1580	1340	1190	1120	1040	897	915	960	953	546	1380	1020
7	1610	1340	1160	1080	1100	897	951	807	950	563	1270	1020
8	1560	1300	1110	1060	1070	924	960	708	941	522	1180	1060
9	1550	1280	1110	1100	1030	915	924	772	866	458	1060	1140
10	1570	1230	1110	1140	1090	897	870	772	771	394	899	1190
11	1550	1240	1130	1120	1100	897	834	708	737	350	757	1290
12	1550	1220	1130	1140	1080	879	834	693	690	319	711	1360
13	1540	1240	1130	1150	1080	960	789	679	690	306	706	1370
14	1560	1250	1120	1200	1080	960	789	679	734	306	716	1350
15	1580	1220	1090	1250	1090	951	780	693	890	294	712	1320
16	1630	1190	1110	1120	1100	951	825	772	1060	312	745	1280
17	1660	1190	1100	1130	1100	960	897	825	1060	318	768	1240
18	1620	1170	1060	1140	1030	933	951	816	1110	329	784	1210
19	1580	1170	1070	1100	1010	870	960	708	1100	364	791	1220
20	1550	1170	1040	1060	996	870	924	567	1040	393	830	1250
21	1520	1170	1040	1060	1020	870	888	441	981	438	838	1190
22	1490	1160	1050	1070	1010	879	870	466	895	494	864	1170
23	1440	1150	1060	1070	1010	906	861	826	1020	590	892	1160
24	1520	1170	1030	1080	1000	888	870	1290	1100	596	874	1170
25	1540	1190	1040	1070	978	861	825	1450	1030	573	865	1220
26	1520	1150	1040	978	978	852	825	1450	974	597	868	1290
27	1530	1150	1070	969	987	843	897	1270	908	614	851	1420
28	1550	1150	1060	960	969	861	1010	1140	838	742	825	1550
29	1550	1160	1050	978	924	870	1000	987	772	792	864	1650
30	1600	1090	1050	1040	---	861	987	960	625	800	923	1890
31	1540	---	1050	1060	---	870	---	989	---	816	936	---
TOTAL	48730	37150	34170	33365	30202	27879	26622	27615	27656	15456	29053	36772
MEAN	1572	1238	1102	1076	1041	899	887	891	922	499	937	1226
MAX	1700	1470	1210	1250	1100	960	1010	1450	1110	816	1390	1890
MIN	1440	1090	1030	950	924	843	780	441	625	294	706	918
AC-FT	96660	73690	67780	66180	59910	55300	52800	54770	54860	30660	57630	72940
CAL YR 1975 TOTAL	399571			MEAN 1095	MAX 1750	MIN 538	AC-FT 792500					
WTR YR 1976 TOTAL	374670			MEAN 1024	MAX 1890	MIN 294	AC-FT 743200					

PLATTE RIVER BASIN
06684500 NORTH PLATTE RIVER AT BRIDGEPORT, NE--Continued
WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1971 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)
OCT							
15...	1430	1630	1040	7.4	12.0	30	11.0
NOV							
18...	1400	1230	816	7.5	6.0	30	11.0
DEC							
16...	1500	1180	932	7.3	1.0	30	11.3
JAN							
20...	1430	1060	912	7.5	4.0	35	10.6
FEB							
17...	1450	1110	990	7.3	6.0	35	10.2
MAR							
16...	1415	942	982	7.1	9.0	30	10.2
APR							
13...	1415	798	1010	7.5	18.5	30	7.9
MAY							
18...	1550	798	1060	7.5	21.5	70	8.3
JUN							
15...	1500	843	1000	7.5	18.0	80	8.0
JUL							
21...	1545	406	952	7.3	25.5	90	6.9
AUG							
18...	0930	689	995	7.4	21.5	35	7.6
SEP							
15...	1430	1220	958	7.1	19.0	40	7.5

PLATTE RIVER BASIN

83

06685000 PUMPKIN CREEK NEAR BRIDGEPORT, NE

LOCATION.--Lat 41°37'38", long 103°02'10", in SW1/4 sec.12, T.19 N., R.50 W., Morrill County, Hydrologic Unit 10180013, on left bank 250 ft (76 m) downstream from bridge on U.S. Highway 385 and State Highway 92, 0.5 mi (0.8 km) upstream from mouth, and 4 mi (6 km) southeast of Bridgeport.

DRAINAGE AREA.--1,020 mi² (2,640 km²), approximately.

PERIOD OF RECORD.--February 1931 to current year.

REVISED RECORDS.--WSP 1390: 1932, 1934 (M), 1935, 1936 (M), 1938-39. WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Sheet piling control since December 1964. Datum of gage is 3,635.99 ft (1,108.250 m) above mean sea level. Prior to June 25, 1934, nonrecording gage on downstream side of bridge 240 ft (73 m) upstream and June 25, 1934, to May 18, 1936, water-stage recorder at upstream side of bridge 260 ft (79 m) upstream, both at datum 0.29 ft (0.088 m) higher.

REMARKS.--Records good. Natural flow of stream affected by ground-water withdrawals and diversions for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--45 years, 30.3 ft³/s (0.858 m³/s), 21,950 acre-ft/yr (27.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,880 ft³/s (223 m³/s) June 9, 1965, gage height, 9.98 ft (3.042 m), from floodmark, from rating curve extended above 3,500 ft³/s (99.1 m³/s) on basis of rating extension for main channel and determination of flow over road; no flow July 22, 24-26, Aug. 5-8, 1975; July 9, 11, 22, 23, 28, 29, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 76 ft³/s (2.15 m³/s) May 9, gage height, 2.36 ft (0.719 m); maximum gage height, 2.45 ft (0.747 m) Nov. 21, backwater from ice; no flow July 9, 11, 22, 23, 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	10	16	16	27	26	25	22	11	1.9	1.8	3.9
2	9.6	9.1	18	16	28	26	24	22	11	2.7	7.0	3.6
3	9.7	8.4	20	15	28	25	22	22	6.9	1.8	.65	3.4
4	8.3	8.5	21	15	27	24	22	21	12	1.7	.72	3.6
5	8.6	8.4	21	14	25	23	24	21	8.6	1.4	8.0	3.6
6	8.6	9.8	20	12	20	24	22	21	9.4	1.6	2.7	4.2
7	7.8	11	20	12	24	26	22	26	9.1	1.0	.31	3.5
8	6.8	12	20	13	24	27	22	60	8.4	.30	.08	4.4
9	7.2	12	21	15	25	30	20	70	4.9	0	.08	4.8
10	7.2	13	19	16	27	30	19	61	4.8	.03	.07	4.8
11	7.0	13	19	17	28	28	19	36	4.8	0	.07	4.8
12	6.8	16	18	17	27	26	20	25	6.0	.02	.06	4.6
13	6.8	16	18	17	28	24	20	28	6.9	.22	1.0	4.4
14	6.8	16	17	20	28	27	19	25	6.6	.16	.13	4.3
15	7.1	17	16	20	27	28	19	18	15	.24	.08	4.4
16	7.0	17	17	20	27	26	22	17	24	.33	.08	4.8
17	7.0	16	17	21	27	26	23	17	25	.17	.07	5.2
18	7.0	17	18	21	27	26	23	14	25	.14	.07	4.8
19	6.8	17	20	23	27	25	24	11	25	.05	.07	4.5
20	7.0	16	19	23	26	25	23	11	20	.09	.08	4.6
21	7.2	16	20	23	26	25	23	11	11	.02	.17	4.8
22	7.5	17	20	24	21	25	23	13	5.2	0	.18	4.9
23	8.0	18	20	24	25	25	24	18	2.3	0	.22	4.8
24	8.6	19	20	25	28	25	24	22	1.9	.01	.39	5.0
25	8.3	19	21	25	26	25	24	27	1.7	.01	1.2	5.5
26	9.2	18	22	22	26	25	23	22	1.6	.04	1.9	5.7
27	10	18	22	22	26	25	24	11	3.8	.01	1.8	5.7
28	10	18	23	24	26	25	26	11	5.4	0	2.9	6.0
29	10	15	22	24	25	25	24	8.1	6.4	0	4.1	6.2
30	10	14	21	26	---	25	23	8.9	3.5	.03	4.0	6.2
31	10	---	23	27	---	25	---	12	---	.06	3.9	---
TOTAL	251.3	435.2	609	609	756	797	672	712.0	287.2	14.03	43.88	141.0
MEAN	8.11	14.5	19.6	19.6	26.1	25.7	22.4	23.0	9.57	.45	1.42	4.70
MAX	10	19	23	27	28	30	26	70	25	2.7	8.0	6.2
MIN	6.8	8.4	16	12	20	23	19	8.1	1.6	0	.06	3.4
AC-FT	498	863	1210	1210	1500	1580	1330	1410	570	28	87	280
CAL YR 1975	TOTAL	5965.17	MEAN	16.3	MAX	73	MIN	0	AC-FT	11830		
WTR YR 1976	TOTAL	5327.61	MEAN	14.6	MAX	70	MIN	0	AC-FT	10570		

PLATTE RIVER BASIN

06686000 NORTH PLATTE RIVER AT LISCO, NE
(National stream-quality accounting network station)

LOCATION.--Lat 41°29'18", long 102°37'25", in NW1/4SE1/4 sec.33, T.18 N., R.46 W., Garden County, Hydrologic Unit 10180009, near right bank on downstream side of pier of highway bridge, 0.5 mi (0.8 km) south of Lisco.

DRAINAGE AREA (REVISED).--26,700 mi² (69,200 km²), approximately, of which about 24,700 mi² (64,000 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide basin is not included.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to September 1916, June to October 1917, September 1931 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,474.5 ft (1,059.03 m) above mean sea level. Prior to Sept. 8, 1931, nonrecording gage at present site at different datum and Sept. 8, 1931, to May 3, 1932, at present site at datum 1.0 ft (0.30 m) higher. May 4, 1932 to May 28, 1974, water-stage recorder at present site at datum 1.0 ft (0.30 m) higher.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,100 ft³/s (569 m³/s) June 27, 29, 1917, from graph based on daily gage readings, from rating curve extended above 15,000 ft³/s (425 m³/s); minimum daily, 8 ft³/s (0.23 m³/s) Aug. 4, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,210 ft³/s (62.6 m³/s) Sept. 30, gage height, 2.62 ft (0.799 m); maximum gage height, 4.24 ft (1.292 m) Dec. 2, backwater from ice; minimum daily discharge, 280 ft³/s (7.93 m³/s) July 16-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1780	1500	900	1160	1370	1040	900	1130	1230	671	796	900
2	1850	1500	1840	1100	1350	1070	888	1100	1100	626	877	913
3	1830	1500	1550	1120	1350	1060	820	1170	1090	608	1160	926
4	1790	1530	1370	1140	1300	1090	866	1200	991	590	1290	939
5	1780	1550	1320	1180	1200	1100	913	1130	888	560	1370	952
6	1740	1580	1300	1180	1200	1100	926	1070	854	510	1340	952
7	1740	1550	1300	1140	1250	1110	1030	1000	926	489	1290	965
8	1650	1550	1320	1180	1300	1140	1170	854	926	475	1230	1070
9	1650	1480	1320	1240	1400	1140	1020	796	866	416	1140	1110
10	1690	1480	1300	1300	1450	1090	952	854	754	398	1060	1220
11	1740	1510	1290	1300	1230	1100	926	831	662	362	913	1320
12	1790	1430	1230	1300	1200	1140	913	820	626	338	842	1380
13	1700	1430	1230	1350	1180	1090	926	774	608	300	743	1400
14	1650	1400	1200	1350	1160	1060	900	743	626	290	701	1450
15	1630	1370	1200	1350	1130	1070	900	732	680	290	653	1480
16	1580	1370	1250	1350	1100	1060	952	764	913	280	653	1510
17	1690	1370	1250	1400	1140	1060	991	888	1100	280	701	1430
18	1780	1370	1200	1400	1140	1090	1070	939	1140	280	653	1260
19	1780	1430	1200	1350	1140	1060	1230	913	1140	295	671	1220
20	1700	1340	1150	1300	1240	1000	1110	820	1130	315	701	1140
21	1690	1240	1200	1300	1260	978	1060	785	1020	405	701	1170
22	1700	1290	1200	1250	1180	991	1020	749	968	461	722	1180
23	1670	1340	1220	1250	1200	1000	1060	1090	1230	482	754	1180
24	1720	1300	1240	1290	1180	1020	1060	1240	1170	542	785	1140
25	1740	1250	1230	1290	1180	1030	1060	1450	1140	526	785	1220
26	1780	1300	1230	1140	1220	1000	1060	1550	1060	526	842	1280
27	1760	1300	1230	1180	1230	991	1110	1430	965	534	831	1400
28	1700	1300	1240	1280	1180	978	1320	1280	926	566	820	1560
29	1720	1300	1220	1220	1100	991	1320	1160	842	635	820	1780
30	1630	1250	1230	1280	---	939	1230	1180	743	671	877	2050
31	1600	---	1230	1380	---	900	---	1200	---	774	900	---
TOTAL	53250	42110	39190	39050	35560	32488	30703	31642	28314	14495	27621	37497
MEAN	1718	1404	1264	1260	1226	1048	1023	1021	944	468	891	1250
MAX	1850	1580	1840	1400	1450	1140	1320	1550	1230	774	1370	2050
MIN	1580	1240	900	1100	1100	900	820	732	608	280	653	900
AC-FT	105600	83530	77730	77460	70530	64440	60900	62760	56160	28750	54790	74380
CAI YR 1975	TOTAL	442545	MEAN	1212	MAX	1870	MIN	428	AC-FT	877800		
WTR YR 1976	TOTAL	411920	MEAN	1125	MAX	2050	MIN	280	AC-FT	817000		

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WATER QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1970 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,100 micromhos Jan. 6, 1971; minimum daily, 578 micromhos Dec. 30, 1970

WATER TEMPERATURES: Maximum, 31.0°C July 19, 1972; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,030 micromhos Nov. 29,30; minimum daily, 740 micromhos Jan. 26, May 23.

WATER TEMPERATURES: Maximum, 27.0°C July 16; minimum, 0.0°C on several days during winter period.

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT							
07...	1045	1750	933	7.4	13.5	45	9.8
15...	1100	1620	934	7.3	10.0	35	11.1
21...	1045	1690	940	7.2	11.0	35	11.1
28...	1100	1700	952	7.4	9.0	30	11.3
NOV							
04...	1110	1530	930	7.3	10.0	30	11.4
12...	1115	1460	942	7.3	1.0	30	13.5
18...	1045	1400	799	7.2	4.5	30	10.6
26...	1130	1270	1060	7.2	1.0	25	11.4
DEC							
03...	0930	1600	942	7.5	1.5	55	10.8
09...	1100	1340	932	7.2	6.5	25	10.2
16...	1115	1260	705	7.3	.0	25	11.5
23...	1130	1200	955	7.4	.0	25	11.3
30...	1100	1220	880	7.3	2.0	25	11.5
JAN							
20...	1145	1330	928	7.6	2.0	45	11.0
FEB							
17...	1100	1150	882	7.4	6.0	35	10.0
MAR							
16...	1100	1060	920	7.2	6.5	25	10.7
APR							
13...	1045	950	910	7.2	17.0	30	8.2
MAY							
18...	1100	946	920	7.5	18.0	70	8.6
JUN							
15...	1205	690	938	7.3	17.0	55	8.3
JUL							
06...	1230	521	878	7.3	28.0	45	7.6
13...	1045	302	890	7.4	23.5	30	7.2
20...	1130	315	870	7.3	22.0	30	7.8
AUG							
03...	1245	1200	885	7.3	21.0	190	7.4
10...	1040	1060	932	7.5	21.5	80	7.8
17...	1115	718	885	7.4	25.0	55	7.7
26...	1400	808	894	7.5	25.0	55	7.4
31...	1030	921	920	7.4	19.0	55	7.5
SEP							
07...	1110	971	900	7.3	22.0	55	7.4
14...	1100	1460	900	7.4	19.0	80	7.3

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)
SEP							
21...	1045	1190	884	7.3	15.0	60	8.6
30...	1445	2010	937	7.3	17.5	60	8.0

PLATTE RIVER BASIN

06686000 NORTH PLATTE RIVER AT LISCO, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
OCT												
15...	1100	4	5.9	120	270	24	78	19	89	2.3	10	304
NOV												
18...	1045	5	2.0	570	280	31	82	19	89	2.3	11	307
DEC												
16...	1115	3	2.3	<3	290	36	83	19	87	2.2	9.7	304
JAN												
20...	1145	6	3.8	4	290	42	86	19	87	2.2	12	306
FEB												
17...	1100	5	3.0	1	290	30	83	19	84	2.2	11	311
MAR												
16...	1100	3	3.2	<1	280	31	81	19	86	2.2	11	304
APR												
13...	1045	25	10	22	280	35	78	20	86	2.2	11	295
MAY												
18...	1100	3	2.5	100	270	45	76	20	80	2.1	9.6	277
JUN												
15...	1205	45	7.9	120	310	28	86	22	88	2.2	9.2	338
JUL												
20...	1130	--	--	600	240	33	64	20	85	2.4	11	255
AUG												
17...	1115	18	3.6	160	260	51	73	19	85	2.3	11	256
SEP												
14...	1100	12	3.8	110	270	34	75	19	85	2.3	10	282

DATE	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINIT- AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SiO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)
OCT												
15...	0	249	190	20	--	37	--	602	.82	2630	2.0	.02
NOV												
18...	0	252	180	19	.5	39	612	601	.83	2310	--	--
DEC												
16...	0	249	180	19	--	40	--	600	.82	2040	2.7	.01
JAN												
20...	0	251	210	20	--	37	--	633	.86	2270	2.6	.04
FEB												
17...	0	255	190	21	.5	39	617	613	.84	1920	--	--
MAR												
16...	0	249	180	21	--	40	--	600	.82	1720	2.7	.01
APR												
13...	0	242	190	20	--	39	--	600	.82	1540	2.4	.00
MAY												
18...	0	227	190	19	.4	30	578	568	.79	1480	--	--
JUN												
15...	0	277	190	20	--	33	--	621	.84	1160	1.4	.01
JUL												
20...	0	209	190	20	--	37	--	558	.76	475	1.2	.03
AUG												
17...	0	210	190	21	.5	39	542	572	.74	1050	--	--
SEP												
14...	0	231	190	20	--	35	--	581	.79	2290	1.8	.01

06686000 NORTH PLATTE RIVER AT LISCO, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)
OCT 15...	2.0	2.0	.12	.29	.41	2.4	.04	.03	--	--	--	.4
NOV 18...	2.4	2.3	.00	1.2	1.2	3.6	.16	.05	150	10	30	--
DEC 16...	2.6	2.6	.08	.72	.80	3.4	.10	.05	--	--	--	.0
JAN 20...	2.7	2.6	.03	.37	.40	3.1	.15	.08	--	--	--	.1
FEB 17...	2.8	2.6	.00	.92	.92	3.7	.32	.03	130	40	150	.0
MAR 16...	2.9	2.7	--	--	.13	3.0	.18	.07	--	--	--	.1
APR 13...	2.4	2.4	.04	.74	.78	3.2	.12	.06	--	--	--	.4
MAY 18...	1.4	1.4	.11	1.2	1.3	2.7	.27	.03	110	20	10	--
JUN 15...	1.5	1.4	.07	.73	.80	2.3	.21	.04	--	--	--	.1
JUL 20...	1.2	1.2	.00	.50	.50	1.7	.11	.04	--	--	--	.1
AUG 17...	1.7	1.7	.00	1.4	1.4	3.1	1.7	.05	150	0	10	.0
SEP 14...	1.9	1.8	.01	1.2	1.2	3.1	.25	.04	--	--	--	.0

DATE	TIME	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L) (00608)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L) (00607)	SUS- PENDED KJEL. NITRO- GEN (N) (MG/L) (00624)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L) (00623)	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS- PENDED ARSENIC (AS) (UG/L) (01001)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD- MIUM (CD) (UG/L) (01027)
NOV 18...	1045	20	.00	.66	.54	.66	8	1	7	<10
FEB 17...	1100	12	.03	.65	.24	.68	8	0	8	<10
MAY 18...	1100	35	.03	.32	.95	.35	7	3	4	0
AUG 17...	1115	190	.01	.41	.98	.42	7	2	5	50

DATE	SUS- PENDED CAD- MIUM (CD) (UG/L) (01026)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	TOTAL CHRO- MIUM (CR) (UG/L) (01034)	SUS- PENDED CHRO- MIUM (CR) (UG/L) (01031)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS- PENDED COBALT (CO) (UG/L) (01036)	DIS- SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS- PENDED COPPER (CU) (UG/L) (01041)
NOV 18...	<10	0	<10	<10	0	100	99	1	10	0
FEB 17...	<10	0	0	0	0	<50	<50	0	10	0
MAY 18...	0	0	10	0	<10	2	2	0	10	0
AUG 17...	50	0	10	10	0	<50	<50	0	20	16

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	SUS- PENDED LEAD (PB) (UG/L) (01050)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN- GANESE (MN) (UG/L) (01055)	SUS- PENDED MAN- GANESE (MN) (UG/L) (01054)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDED MERCURY (HG) (UG/L) (71895)
NOV 18...	10	1300	<100	<97	3	70	40	--	--
FEB 17...	10	1600	<100	<98	2	150	0	1.7	.5
MAY 18...	10	3400	7	5	2	160	150	<.5	.0
AUG 17...	4	3200	<100	<99	1	140	130	.0	.0

06686000 NORTH PLATTE RIVER AT LISCO, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MERCURY (MG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	SUS- PENDE SELE- NIUM (SE) (UG/L) (01146)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS- PENDE ZINC (ZN) (UG/L) (01091)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
NOV 18...	2.3	4	0	4	0	50	0	50	18
FEB 17...	1.2	2	0	2	0	30	0	30	4.2
MAY 18...	<.5	5	4	1	0	60	40	20	10
AUG 17...	.0	4	1	3	0	40	30	10	7.2

DATE	TIME	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG) (39333)	TOTAL CHLOR- DANE (UG/L) (39350)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG) (39351)	TOTAL DDD (UG/L) (39360)	DDD IN BOTTOM MA- TERIAL (UG/KG) (39363)	TOTAL DDE (UG/L) (39365)	DDE IN BOTTOM MA- TERIAL (UG/KG) (39368)	TOTAL DDT (UG/L) (39370)	DDT IN BOTTOM MA- TERIAL (UG/KG) (39373)
NOV 18...	1045	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 17...	1100	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 18...	1100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 17...	1115	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	TOTAL DI- AZINON (UG/L) (39570)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG) (39571)	TOTAL DI- ELDRIN (UG/L) (39380)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG) (39383)	TOTAL ENDRIN (UG/L) (39390)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG) (39393)	TOTAL ETHION (UG/L) (39398)	ETHION IN BOTTOM MA- TERIAL (UG/KG) (39399)	TOTAL HEPTA- CHLOR (UG/L) (39410)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG) (39413)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L) (39420)
NOV 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 17...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
MAY 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 17...	ND	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG) (39423)	TOTAL LINDANE (UG/L) (39340)	LINDANE IN BOTTOM MA- TERIAL (UG/KG) (39343)	TOTAL MALA- THION (UG/L) (39530)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG) (39531)	TOTAL METH- OXY- CHLOR (UG/L) (39480)	METHOX- YCHLOR IN BOT- TOM MA- TERIAL (UG/KG) (39481)	TOTAL METHYL PARA- THION (UG/L) (39600)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG) (39601)	TOTAL METHYL TRI- THION (UG/L) (39790)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG) (39791)
NOV 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 17...	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 17...	--	ND	--	ND	--	ND	--	ND	--	ND	--

PLATTE RIVER BASIN

89

06686000 NORTH PLATTE RIVER AT LISCO, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL PARA- THION (UG/L) (39540)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG) (39541)	TOTAL TOX- APHENE (UG/L) (39400)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG) (39403)	TOTAL TRI- THION (UG/L) (39786)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)	TOTAL ATRA- ZINE (UG/L) (39630)
NOV 18...	ND	ND	ND	ND	ND	ND	--	--	--	--
FEB 17...	ND	--	ND	--	ND	--	ND	ND	ND	ND
MAY 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 17...	ND	--	ND	--	ND	--	ND	ND	ND	ND

DATE	TOTAL PHYTO- PLANK- TON (CELLS PER ML) (60050)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M (00573)	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL A MG/SQ M (32228)	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL B MG/SQ M (32226)
OCT 15...	7000	130	130	35.0	.600
NOV 18...	10000	--	--	--	--
DEC 16...	3300	--	--	--	--
JAN 20...	7900	20.0	22.0	.700	.100
FEB 17...	6600	--	--	--	--
MAR 16...	3700	--	--	--	--
APR 13...	10000	--	--	--	--
MAY 18...	22000	--	--	--	--
JUN 15...	16000	135	154	62.0	1.00
JUL 20...	24000	--	--	--	--
AUG 17...	30000	11.7	23.8	4.60	.230
SEP 14...	270000	--	--	--	--

PLATTE RIVER BASIN

06686000 NORTH PLATTE RIVER AT LISCO, NE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	836	903	844	906	886	924	929	846	898	880	859	841
2	824	871	884	976	884	927	932	845	880	876	865	880
3	854	826	877	988	903	920	934	854	886	874	901	872
4	820	871	881	904	936	927	932	849	882	849	870	865
5	891	888	887	922	971	927	932	861	877	849	861	804
6	819	895	854	972	968	920	934	870	868	840	847	887
7	855	873	916	955	977	859	932	879	859	850	823	870
8	822	895	891	942	982	901	934	884	859	830	879	876
9	908	887	881	936	905	928	934	872	859	872	875	846
10	896	899	854	928	868	933	932	875	852	865	872	860
11	896	892	838	912	856	933	937	886	863	850	867	872
12	910	900	878	928	898	928	934	886	885	865	852	846
13	908	896	889	912	900	928	887	847	880	859	870	869
14	898	890	889	826	900	933	934	743	890	854	870	871
15	893	890	878	899	884	938	926	743	885	846	854	859
16	916	895	885	868	874	933	851	743	876	862	857	869
17	882	881	964	890	900	916	862	747	841	857	855	799
18	875	891	896	797	900	923	855	852	848	862	865	874
19	889	892	897	868	910	936	848	849	848	862	865	883
20	834	887	956	926	835	925	846	852	848	878	858	883
21	871	866	894	864	848	927	853	854	848	862	792	874
22	896	887	898	900	903	928	850	802	846	878	763	874
23	907	923	890	846	898	930	846	740	771	889	763	876
24	878	920	890	892	898	932	846	790	831	869	756	882
25	894	917	899	885	825	927	849	837	831	883	829	886
26	889	914	899	740	864	935	853	852	859	885	853	881
27	905	899	899	861	836	922	849	854	873	892	867	888
28	902	919	904	887	896	933	848	848	876	892	856	881
29	917	1030	897	907	866	930	850	870	876	885	760	870
30	908	1030	897	915	---	917	848	873	874	885	860	880
31	901	---	894	890	---	934	---	887	---	890	847	---
MONTH	880	901	890	898	896	925	890	838	862	867	846	867
YEAR	MAX	1030	MIN	740	MEAN	880						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.0	7.5	1.0	3.0	3.5	1.5	4.5	8.0	19.0	16.0	23.0	16.0
2	10.0	7.0	2.0	2.5	3.5	1.5	4.0	8.0	19.0	18.0	23.0	20.0
3	11.0	8.0	2.0	1.0	5.0	1.5	5.0	10.0	19.0	19.0	23.0	18.0
4	11.0	8.0	2.0	1.0	0.0	2.0	5.0	10.0	17.0	20.0	23.0	24.0
5	12.0	9.0	2.0	0.5	0.0	2.5	7.0	12.0	16.5	18.0	23.0	25.0
6	12.0	9.0	2.0	0.0	0.5	1.5	4.0	11.0	17.0	21.0	23.0	18.0
7	12.0	6.0	6.0	0.0	1.0	1.5	5.0	11.5	17.0	18.0	22.0	18.0
8	11.5	8.0	4.0	0.0	2.0	1.5	6.0	10.5	19.0	18.0	22.0	15.0
9	9.0	9.0	5.0	0.0	1.0	2.0	4.0	11.5	19.5	17.0	22.0	12.0
10	9.0	5.0	5.0	1.0	1.0	1.5	4.0	11.0	19.0	17.0	23.0	17.0
11	10.0	5.0	5.0	1.0	3.0	1.0	8.0	11.0	18.0	23.0	23.0	16.0
12	11.0	1.0	5.0	1.0	5.0	1.0	9.5	12.5	18.0	23.0	23.0	26.0
13	12.0	1.0	4.0	1.0	4.0	1.5	10.0	11.0	18.0	21.0	23.0	18.0
14	9.0	2.0	4.0	2.0	1.0	1.5	10.0	12.0	11.0	22.0	23.0	18.0
15	7.5	4.0	2.0	1.0	0.5	2.5	7.0	12.0	11.0	22.0	23.0	17.0
16	7.0	9.0	1.0	2.0	1.0	1.5	8.0	13.0	14.0	27.0	23.0	19.0
17	7.5	7.0	1.0	1.5	2.0	1.5	8.5	12.5	14.0	22.5	23.0	19.0
18	7.0	5.0	1.0	2.0	1.0	1.5	10.0	13.0	14.0	22.0	23.0	18.0
19	15.0	3.5	1.5	1.0	1.5	2.0	10.0	14.0	14.0	22.0	23.0	19.0
20	10.0	2.0	1.0	1.5	1.5	1.5	10.5	14.0	21.0	22.5	23.0	18.0
21	10.0	2.0	1.5	3.5	1.0	1.5	9.5	16.0	19.0	25.0	24.0	19.0
22	10.0	0.5	2.0	3.0	1.0	1.0	8.0	17.0	19.0	24.0	24.0	15.0
23	7.0	2.0	2.0	3.0	1.0	1.0	9.0	11.0	18.0	24.0	24.0	15.0
24	5.0	1.0	2.5	3.0	1.5	1.5	9.0	11.0	14.0	23.0	24.0	14.0
25	6.0	0.0	3.5	1.0	1.5	2.0	8.0	10.5	17.0	23.0	25.0	14.0
26	10.5	1.0	3.5	0.5	1.0	1.0	9.0	13.5	16.0	23.0	25.0	17.0
27	8.5	1.0	4.0	0.5	1.5	1.5	8.0	15.0	18.5	23.0	23.0	13.5
28	8.0	1.0	3.5	1.0	1.5	1.5	8.0	17.0	18.0	22.0	23.0	10.0
29	7.0	1.0	3.0	2.5	1.5	2.0	8.0	17.0	19.0	22.0	23.0	11.0
30	12.0	1.0	3.0	3.0	---	2.0	14.5	20.0	22.5	23.0	23.0	12.0
31	7.0	---	2.5	4.0	---	1.0	---	19.0	---	23.0	19.0	---
MONTH	9.5	4.0	3.0	1.5	1.5	1.5	7.5	13.0	17.0	21.5	23.0	17.0

PLATTE RIVER BASIN

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06686000 NORTH PLATTE RIVER AT LISCO, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	TEMPER- ATURE (DEG C) (00010)	SUS- PENDE DI- MENT (MG/L) (80154)	SUS- PENDE SED- MENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN .500 MM (70345)	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM (70346)	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM (70347)
OCT											
15...	1100	1620	10.0	311	1360	--	--	--	--	--	--
NOV											
18...	1045	1400	4.5	1570	5930	5	27	33	50	93	100
DEC											
16...	1115	1260	.0	180	612	43	780	90	97	100	--
JAN											
20...	1145	1330	2.0	340	1220	32	74	90	100	--	--
FEB											
17...	1100	1150	6.0	1070	3320	39	58	65	87	100	--
MAR											
16...	1100	1060	6.5	231	661	46	74	92	100	--	--
APR											
13...	1045	950	17.0	145	372	62	82	99	100	--	--
MAY											
18...	1100	946	18.0	361	922	70	91	97	10	--	--
JUN											
15...	1205	690	17.0	279	520	74	80	93	97	100	--
JUL											
20...	1130	315	22.0	118	100	79	100	--	--	--	--
29...	1445	--	--	118	100	--	--	--	--	--	--
AUG											
17...	1040	718	25.0	530	1030	70	75	78	89	99	100
SEP											
14...	1100	1460	19.0	530	1380	70	93	95	98	100	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	NUMBER OF SAM- PLING POINTS (00063)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. FALL SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. FALL SIEVE DIAM. % FINER THAN 8.00 MM (80171)
NOV											
18...	1045	1400	3	0	1	7	34	70	86	97	100
FEB											
17...	1100	1150	3	--	0	6	38	75	89	97	100
MAY											
18...	1100	946	3	0	1	10	39	69	85	96	100
AUG											
17...	1040	718	3	0	1	12	46	81	93	99	100

PLATTE RIVER BASIN

06687000 BLUE CREEK NEAR LEWELLEN, NE

LOCATION.--Lat 41°20'07", long 102°10'21", in NE1/4 sec.30, T.16 N., R.42 W., Garden County, Hydrologic Unit 10180009, on right bank 130 ft (40 m) downstream from county highway bridge, 0.5 mi (0.8 km) downstream from bridge on U.S. Highway 26, 0.8 mi (1.3 km) upstream from mouth, and 1.5 mi (2.4 km) west of Lewellen.

DRAINAGE AREA.--1,190 mi² (3,082 km²), revised, approximately, of which about 80 mi² (207 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1930 to current year.

REVISED RECORDS.--WSP 1310: 1941(M). WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,310.04 ft (1,008.900 m) above mean sea level. See WSP 1918 for history of changes prior to Apr. 10, 1958.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by ground-water withdrawals and diversions for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--46 years, 69.6 ft³/s (1.971 m³/s), 50,430 acre-ft/yr (62.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 720 ft³/s (20.4 m³/s) May 20, 1938, gage height, 6.46 ft (1.969 m), present datum, from rating curve extended above 500 ft³/s (14.2 m³/s); maximum gage height, 6.93 ft (2.112 m), present datum, Dec. 21, 1945, backwater from ice; no flow for short periods in 1940, 1947, 1957, 1960-61, 1963, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 182 ft³/s (5.15 m³/s) Apr. 8, gage height, 4.16 ft (1.268 m); maximum gage height, 5.54 ft (1.689 m) Dec. 18, backwater from ice; minimum daily discharge, 0.15 ft³/s (0.004 m³/s) June 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	91	100	92	101	102	96	94	59	16	4.6	.42
2	9.4	90	110	80	101	101	95	91	64	18	7.2	.48
3	9.0	89	110	82	102	96	93	88	66	12	6.0	.58
4	8.9	90	120	80	96	97	95	86	48	9.8	8.1	.86
5	17	91	100	78	85	90	95	85	45	3.4	4.2	3.0
6	18	93	101	70	80	90	94	85	48	1.6	1.8	1.3
7	19	93	102	62	80	93	108	85	45	.42	1.9	1.3
8	20	94	107	65	90	94	158	85	32	.23	2.0	1.4
9	25	93	107	75	114	94	125	87	20	.23	1.9	1.7
10	33	92	107	80	111	95	106	88	12	.53	2.2	2.9
11	45	90	103	86	106	94	102	88	14	.57	1.6	7.1
12	45	89	98	92	107	85	102	90	13	.21	.79	11
13	46	90	96	92	108	90	101	88	12	.24	.48	7.2
14	44	94	89	95	108	97	101	87	10	.31	.65	4.8
15	47	95	86	100	107	94	99	88	26	.27	.58	5.2
16	55	95	86	104	106	94	107	92	11	.25	.44	7.1
17	87	95	88	110	106	93	110	91	1.3	.40	.62	7.0
18	87	94	92	109	105	94	106	86	.19	.44	.43	11
19	87	95	98	102	104	93	106	85	.15	9.5	.38	14
20	87	70	104	99	102	90	104	66	.16	14	.43	14
21	87	80	101	101	102	90	100	53	.17	20	.56	11
22	87	100	100	103	109	94	97	56	.54	19	.61	13
23	89	110	99	104	112	94	102	114	31	18	.61	14
24	96	118	99	104	109	94	100	120	27	18	.49	11
25	99	100	99	94	106	94	96	102	12	5.9	.47	7.5
26	98	100	101	90	104	94	94	91	9.5	2.1	.49	6.7
27	98	100	103	95	104	94	98	79	12	2.3	.37	6.1
28	94	100	105	100	104	94	106	69	11	2.6	.38	6.4
29	92	90	101	98	103	93	105	67	6.0	2.4	.35	8.3
30	92	70	100	106	---	92	99	63	1.7	2.3	.37	13
31	92	---	103	106	---	94	---	58	---	3.1	.37	---
TOTAL	1829.3	2791	3115	2854	2972	2903	3100	2607	637.71	184.10	51.37	199.34
MEAN	59.0	93.0	100	92.1	102	93.6	103	84.1	21.3	5.94	1.66	6.64
MAX	99	118	120	110	114	102	158	120	66	20	8.1	14
MIN	8.9	70	86	62	80	85	93	53	.15	.21	.35	.42
AC-FT	3630	5540	6180	5660	5890	5760	6150	5170	1260	365	102	395
CAL YR 1975	TOTAL	23958.71	MEAN	65.6	MAX	134	MIN	.18	AC-FT	47520		
WTR YR 1976	TOTAL	23243.82	MEAN	63.5	MAX	158	MIN	.15	AC-FT	46100		

PLATTE RIVER BASIN

93

06687500 NORTH PLATTE RIVER AT LEWELLEN, NE

LOCATION.--Lat 41°18'37", long 102°09'00", in SE1/4NW1/4 sec.33, T.16 N., R.42 W., Garden County, Hydrologic Unit 10180009, on right bank 28 ft (9 m) upstream from county highway bridge, 1 mi (2 km) south of Lewellen, and approximately 1.5 mi (2.4 km) upstream from high-water line of Lake McConaughy.

DRAINAGE AREA (REVISED).--28,600 mi² (74,100 km²), approximately, of which about 25,400 mi² (65,800 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide basin is not included.

PERIOD OF RECORD.--July to September 1931, December 1940 to current year.

REVISED RECORDS.--WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,290.16 ft (1,002.841 m) above mean sea level. July to September 1931 nonrecording gage near present site at different datum. December 1940 to Sept. 19, 1973, water-stage recorders on two channels at site 0.9 mi (1.4 km) downstream at datum approximately 6 ft (1.8 m) lower.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,500 ft³/s (382 m³/s) June 4, 1971; minimum daily, 44 ft³/s (1.25 m³/s) July 13, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,150 ft³/s (60.9 m³/s) Feb. 11, gage height, 6.15 ft (1.875 m), backwater from ice; maximum gage height, 8.63 ft (2.630 m) Dec. 15, backwater from ice; minimum daily discharge, 238 ft³/s (6.74 m³/s) July 14-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1670	1740	780	1750	1500	1220	1060	1240	1320	639	796	870
2	1780	1760	1200	1700	1600	1200	1110	1190	1210	579	825	855
3	1690	1810	1700	1600	1700	1060	1060	1100	1080	544	870	855
4	1620	1910	2000	1500	1500	1050	960	1240	1030	522	1110	855
5	1600	1840	2100	1400	1300	1000	945	1260	994	522	1280	915
6	1620	1840	2000	1300	1400	1000	960	1190	1010	489	1300	915
7	1580	1860	1900	1300	1550	1250	1150	1150	1010	478	1300	994
8	1600	1840	1900	1350	1650	1300	1690	1080	994	425	1280	1060
9	1580	1600	1700	1400	1750	1490	1380	977	960	385	1170	1040
10	1550	1510	1450	1400	1750	1300	1280	1010	855	355	1080	1100
11	1550	1640	1510	1500	1800	1300	1170	1100	756	327	960	1260
12	1600	1640	1530	1500	1850	1400	1100	1040	663	300	855	1380
13	1570	1670	1530	1500	1750	1220	1080	945	639	291	742	1470
14	1570	1550	1500	1500	1670	1220	1060	870	663	238	702	1470
15	1670	1450	1400	1500	1490	1220	1040	855	639	238	675	1470
16	1780	1550	1300	1550	1420	1190	1130	915	688	238	675	1360
17	1880	1600	1250	1550	1450	1170	1280	930	885	238	639	1320
18	1910	1640	1250	1600	1380	1240	1420	994	1040	238	627	1280
19	1780	1600	1400	1650	1320	1220	1450	1040	994	238	615	1300
20	1780	1550	1450	1700	1300	1220	1420	930	930	282	639	1340
21	1840	1400	1450	1750	1300	1220	1300	810	945	327	688	1260
22	1910	1500	1500	1750	1400	1150	1300	825	930	365	688	1240
23	1960	1700	1500	1750	1420	1110	1300	1450	1440	375	675	1220
24	2080	1900	1600	1700	1400	1170	1300	1550	1210	395	688	1220
25	2080	1800	1600	1600	1380	1240	1220	1620	1170	446	729	1240
26	1860	1700	1600	1500	1340	1220	1190	1740	1190	467	742	1320
27	1840	1600	1650	1400	1340	1150	1240	1690	1110	467	742	1340
28	1840	1500	1700	1350	1320	1150	1420	1470	1040	467	742	1420
29	1740	1250	1750	1400	1280	1100	1420	1300	945	522	742	1490
30	1740	1000	1750	1400	---	1040	1420	1240	796	603	742	1600
31	1780	---	1750	1500	---	1040	---	1280	---	702	796	---
TOTAL	54050	48950	48700	47350	43310	36860	36855	36031	29136	12702	26114	36459
MEAN	1744	1632	1571	1527	1493	1189	1229	1162	971	410	842	1215
MAX	2080	1910	2100	1750	1850	1490	1690	1740	1440	702	1300	1600
MIN	1550	1000	780	1300	1280	1000	945	810	639	238	615	855
AC-FT	107200	97090	96600	93920	85910	73110	73100	71470	57790	25190	51800	72320
CAL YR 1975	TOTAL	485642	MEAN	1331	MAX	2200	MIN	364	AC-FT	963300		
WTR YR 1976	TOTAL	456517	MEAN	1247	MAX	2100	MIN	238	AC-FT	905500		

PLATTE RIVER BASIN

06690000 LAKE MCCONAUGHY NEAR KEYSTONE, NE

LOCATION.--Lat 41°12'45", long 101°40'03", in NW1/4SW1/4 sec.3, T.14 N., R.38 W., Keith County, Hydrologic Unit 10180014, near right bank at outlet tower of Kingsley Dam on North Platte River, 4.5 mi (7.2 km) west of Keystone.

DRAINAGE AREA.--33,300 mi² (86,200 km²), approximately, of which about 25,800 mi² (66,800 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--February 1941 to current year.

GAGE.--Electric tape gage read once daily. Gage is referred to mean sea level.

REMARKS.--Reservoir is formed by earthfill dam; storage began Feb. 9, 1941. Capacity, 1,948,000 acre-ft (2.40 km³) between elevations 3,130.0 ft (954 m), sill of outlet gates, and 3,270.0 ft (997 m), top of morning-glory spillway gates. Elevation of crest of morning-glory spillway is 3,254.0 ft (992 m). Dead storage negligible. Figures given herein represent total contents. Water is used for power development and irrigation in South-Central Nebraska by the Central Nebraska Public Power and Irrigation District.

COOPERATION.--Records of elevations and capacity table furnished by the Central Nebraska Public Power and Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 1,920,000 acre-ft (2.37 km³) July 12-16, 1971, elevation, 3,269.1 ft (996.42 m); minimum observed since operation of reservoir began, 32,860 acre-ft (40.5 km³) Sept. 29, 1941, elevation, 3,153.4 ft (961.16 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 1,670,000 acre-ft (2.06 km³) May 29-31, June 1-3, elevation, 3,260.9 ft (993.92 m); minimum observed, 1,202,000 acre-ft (1.48 km³) Sept. 12-14, elevation, 3,243.0 ft (988.47 m).

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	Date	Elevation (feet)	Contents	Change in contents (acre-feet)
Sept.	30	3,247.5	1,310,000	-
Oct.	31	3,249.7	1,364,000	+54,000
Nov.	30	3,251.9	1,421,000	+57,000
Dec.	31	3,253.2	1,456,000	+35,000
CAL YR	1975	-	-	+8,000
Jan.	31	3,255.0	1,504,000	+48,000
Feb.	29	3,257.0	1,559,000	+55,000
Mar.	31	3,258.7	1,607,000	+48,000
Apr.	30	3,260.0	1,644,000	+37,000
May	31	3,260.9	1,670,000	+26,000
June	30	3,257.0	1,559,000	-111,000
July	31	3,248.9	1,344,000	-215,000
Aug.	31	3,244.3	1,232,000	-112,000
Sept.	30	3,243.6	1,216,000	-16,000
WTR YR	1976	-	-	-94,000

PLATTE RIVER BASIN

95

06690500 NORTH PLATTE RIVER NEAR KEYSTONE, NE

LOCATION.--Lat 41°12'30", long 101°37'50", in SW1/4 sec.1, T.14 N., R.38 W., Keith County, Hydrologic Unit 10180014, on right bank 0.2 mi (0.3 km) downstream from diversion dam of Sutherland Reservoir supply canal and 2.5 mi (4.0 km) southwest of Keystone.

DRAINAGE AREA (REVISED).--29,300 mi² (75,900 km²), approximately, of which about 25,800 mi² (66,800 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide basin is not included.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to August 1917, July to September 1939, May to September 1940, January to April 1941, March 1942 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1390: 1942, 1946-47. WSP 1630: 1958. WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,105.59 ft (946.584 m) above mean sea level, (Nebraska Public Power District bench mark). See WSP 1918 for history of changes prior to May 1, 1964.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Flow completely regulated by Lake McConaughy (station 06690000) since Feb. 9, 1941. Supply canal for Nebraska Public Power District diverts 0.2 mi (0.3 km) upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft³/s (575 m³/s) June 30, 1917, from graph based on daily gage readings; no flow for many days in 1975-76.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,080 ft³/s (116 m³/s) Aug. 27, gage height, 6.37 ft (1.942 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	346			0	0	.30	8.1	160	2360	2050	2780
2	117	340			0	0	0	.40	163	2430	2000	2330
3	121	340			0	0	0	0	160	2360	1840	2300
4	123	334			0	0	0	.10	163	2340	1840	2210
5	123	334			0	0	0	1.2	178	2330	1910	2190
6	123	340			0	0	0	.10	157	2340	1780	2080
7	121	340			0	0	.40	38	157	2260	1550	1950
8	184	334			0	0	.10	175	230	2100	1520	1620
9	81	340			0	0	0	126	334	2100	1400	1530
10	.80	334			0	0	2.3	128	526	2160	1260	1330
11	0	394			0	24	0	178	995	2220	1250	1290
12	0	334			2.1	46	0	478	1040	2260	1220	1220
13	12	328			.20	0	0	442	984	2370	1250	1150
14	19	334			0	0	0	428	1400	2380	1270	995
15	1.9	334			0	0	0	435	1050	2380	1320	1110
16	23	334			0	0	8.3	435	1180	2410	1420	890
17	16	334			0	0	3.2	428	1470	2430	1520	770
18	53	340			2.6	0	0	382	1460	2450	1570	760
19	31	364			0	38	.40	260	1450	2460	1800	760
20	.30	364			0	36	.70	328	1440	2460	2310	750
21	93	226			.40	.30	3.5	376	1780	2440	2680	700
22	286	157			0	0	.30	382	2440	2420	3030	650
23	328	69			0	5.8	0	435	2610	2390	3310	810
24	376	0			0	8.4	9.6	286	2370	2280	3600	1010
25	358	0			0	.20	.10	157	2230	2290	3550	995
26	334	0			0	1.6	0	157	2080	2290	3520	995
27	322	0			0	.10	0	157	1990	2290	3570	1010
28	322	0			0	0	0	154	2090	2290	3570	1010
29	322	0			0	0	0	154	2190	2220	3550	995
30	316	0			---	0	.10	157	2170	2090	3440	631
31	364	---			---	0	---	157	---	2020	3210	---
TOTAL	4697.00	7294	0	0	5.30	160.40	29.30	6842.90	36647	71620	69110	38821
MEAN	152	243	0	0	.18	5.17	.98	221	1222	2310	2229	1294
MAX	376	394	0	0	2.6	46	9.6	478	2610	2460	3600	2780
MIN	0	0	0	0	0	0	0	0	157	2020	1220	631
AC-FT	9320	14470	0	0	11	318	58	13570	72690	142100	137100	77000
CAL YR 1975	TOTAL	157162.00	MEAN	431	MAX	2470	MIN	0	AC-FT	311700		
WTE YR 1976	TOTAL	235226.90	MEAN	643	MAX	3600	MIN	0	AC-FT	466600		

PLATTE RIVER BASIN

06690500 NORTH PLATTE RIVER NEAR KEYSTONE, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (00095)	TEMPERATURE (DEG C) (00010)	DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (00095)	TEMPERATURE (DEG C) (00010)
OCT					JUL				
01...	1120	124	747	15.0	01...	1245	2420	780	9.0
07...	1120	122	762	15.0	09...	1110	2060	782	9.0
10...	1040	3.0	756	13.0	15...	1140	2380	777	11.0
NOV					22...	1030	2420	772	11.0
04...	1045	336	698	11.0	29...	1020	2300	783	11.0
10...	1230	331	712	9.0	AUG				
17...	1105	333	706	9.0	03...	1110	1830	779	11.0
MAY					12...	1120	1230	766	12.0
10...	1145	127	773	8.0	19...	0940	1670	776	12.0
17...	1215	428	696	8.0	25...	1335	3520	757	14.0
25...	1215	169	765	7.0	26...	1225	3690	808	18.5
28...	1015	158	848	13.5	SEP				
JUN					01...	0945	3040	780	12.0
03...	1105	160	759	8.0	09...	1025	1630	765	10.0
10...	1020	342	776	9.0	17...	1025	750	778	12.0
18...	1005	1460	778	8.0	24...	1015	1000	395	10.0
25...	1000	2270	777	9.0					

DATE	TIME	PH (UNITS) (00400)	COLOR (PLAT-INUM-COBALT) (UNITS) (00080)	HARDNESS (CA, MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DIS-SOLVED CALCIUM (CA) (MG/L) (00915)	DIS-SOLVED MAGNESIUM (MG) (MG/L) (00925)	DIS-SOLVED SODIUM (NA) (MG/L) (00930)
OCT								
10...	1040	--	2	210	27	52	19	79
MAY								
28...	1015	7.4	2	230	81	58	20	78
AUG								
26...	1225	7.3	4	220	36	60	18	86

DATE	SODIUM ADSORPTION RATIO (00931)	DIS-SOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CAC03 (MG/L) (00410)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS-SOLVED FLUORIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)
OCT									
10...	2.4	11	221	--	181	180	19	.5	23
MAY									
28...	2.3	9.0	178	0	146	190	18	.4	26
AUG									
26...	2.5	9.9	229	0	188	190	20	.5	26

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS-SOLVED PHOSPHORUS (P) (MG/L) (00666)	DIS-SOLVED BORON (B) (UG/L) (01020)	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED MANGANESE (MN) (UG/L) (01056)
OCT								
10...	494	4.00	.67	.16	.03	150	0	440
MAY								
28...	491	209	.67	.77	.01	130	20	60
AUG								
26...	526	5240	.72	.63	.07	150	70	50

PLATTE RIVER BASIN

97

06691000 NORTH PLATTE RIVER NEAR SUTHERLAND, NE

LOCATION.--Lat 41°12'37", long 101°06'53", in sec.4, T.14 N., R.33 W., Lincoln County, Hydrologic Unit 10180014, on left bank 80 ft (24 m) downstream from bridge on county road, 2.5 mi (4.0 km) upstream from Birdwood Creek, and 3.5 mi (5.6 km) north of Sutherland.

DRAINAGE AREA (REVISED).--29,800 mi² (77,200 km²), approximately, of which about 26,120 mi² (67,700 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide basin is not included.

PERIOD OF RECORD.--June to October 1917, July 1931 to August 1933 (irrigation seasons only), May to September 1935, May 1936 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 976: 1942. WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 2,920 ft (890 m), from topographic map. Prior to Apr. 29, 1936, nonrecording gage near present site at different datums. Apr. 29, 1936, to Oct. 6, 1971, water-stage recorder at site 80 ft (24 m) upstream at present datum.

REMARKS.--Records good except those above 1,000 ft³/s (28.3 m³/s) and those for winter period, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft³/s (575 m³/s) June 29, 1917, from discharge graph based on daily gage readings, from rating curve extended above 16,000 ft³/s (453 m³/s); no flow July 24-28, 30, 31, 1931, Aug. 7, 1934, July 20-28, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,240 ft³/s (91.8 m³/s) Aug. 28, gage height, 4.24 ft (1.292 m); minimum daily, 37 ft³/s (1.05 m³/s) Apr. 25, 26, May 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	434	145	160	145	153	67	43	112	1960	1790	2910
2	46	427	160	150	149	153	61	41	103	2040	1790	2670
3	45	427	165	130	145	140	58	41	87	2220	1680	2240
4	45	421	165	120	145	140	54	39	60	2300	1550	2110
5	45	415	170	120	135	150	54	39	55	2220	1630	2030
6	45	415	179	115	140	155	87	39	53	2080	1610	1980
7	88	409	168	115	160	160	50	39	50	2010	1530	1890
8	217	404	168	120	180	175	103	37	50	1900	1510	1740
9	200	404	175	125	200	164	106	45	54	1700	1440	1500
10	164	415	183	130	179	156	87	52	72	1650	1310	1390
11	116	421	183	135	164	153	77	48	209	1650	1200	1230
12	109	452	168	140	171	179	74	43	591	1670	1170	1210
13	109	421	160	145	175	188	70	189	676	1700	1160	1130
14	109	421	150	145	175	160	65	246	714	1850	1290	1060
15	109	415	130	150	175	153	61	255	912	1890	1280	1420
16	109	409	135	155	175	153	72	282	714	1870	1450	1250
17	109	409	120	160	171	149	90	297	938	1890	1400	1010
18	122	409	120	160	168	149	90	273	1100	1920	1330	870
19	142	400	125	165	164	142	82	242	1140	1920	1300	798
20	145	400	135	170	160	145	74	164	1150	1970	1430	729
21	125	400	140	175	160	171	56	156	1130	2010	1740	706
22	142	250	145	180	170	149	50	221	1400	2020	1990	647
23	255	170	145	185	183	138	45	292	2000	2030	2260	611
24	369	160	150	180	171	135	39	316	2370	2040	2570	814
25	427	150	160	165	168	142	37	268	2200	1970	2970	1010
26	458	145	170	145	160	138	37	188	2110	1960	3110	1020
27	452	140	209	150	160	119	41	175	1960	1970	3200	1000
28	452	140	192	150	160	116	72	119	1860	1970	3220	992
29	452	140	171	150	156	116	79	112	1890	1930	3200	983
30	440	140	164	145	---	106	56	112	1930	1860	3140	974
31	440	---	164	145	---	77	---	112	---	1780	3060	---
TOTAL	6132	10163	4914	4580	4764	4524	1994	4525	27690	59950	59310	39924
MEAN	198	339	159	148	164	146	66.5	146	923	1934	1913	1331
MAX	458	452	209	185	200	188	106	316	2370	2300	3220	2910
MIN	45	140	120	115	135	77	37	37	50	1650	1160	611
AC-FT	12160	20160	9750	9080	9450	8970	3960	8980	54920	118900	117600	79190

CAL YR 1975 TOTAL 149280 MEAN 409 MAX 2280 MIN 45 AC-FT 296100
WTR YR 1976 TOTAL 228470 MEAN 624 MAX 3220 MIN 37 AC-FT 453200

PLATTE RIVER BASIN

06692000 BIRDWOOD CREEK NEAR HERSHEY, NE

LOCATION.--Lat 41°13'20", long 101°04'12", in NE1/4NW1/4 sec.2, T.14 N., R.33 W., Lincoln County, Hydrologic Unit 10180014, on left bank 60 ft (18 m) downstream from bridge on county road, 1 mi (2 km) upstream from mouth, and 5 mi (8 km) northwest of Hershey.

DRAINAGE AREA.--940 mi² (2,435 km²), revised, approximately, of which about 80 mi² (207 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--May 1931 to current year.

REVISED RECORDS.--WSP 1390: 1948(M), 1949, 1951-52(M). WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 2,920 ft (890 m), from topographic map. Jan. 1, 1931, to Dec. 16, 1934, nonrecording gage and Dec. 17, 1934, to Nov. 4, 1953, water-stage recorder, at site 50 ft (15 m) upstream at present datum.

REMARKS.--Records good. Natural flow of stream affected by ground-water withdrawals and diversions for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--45 years, 153 ft³/s (4.333 m³/s), 110,800 acre-ft/yr (0.137 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,770 ft³/s (50.1 m³/s) Apr. 1, 1949, gage height, 4.35 ft (1.326 m), from rating curve extended above 680 ft³/s (19.3 m³/s); maximum gage height, 5.12 ft (1.561 m) Dec. 15, 1940, backwater from ice; minimum daily discharge, 61 ft³/s (1.73 m³/s) Jan. 19, 1935, Apr. 7, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 458 ft³/s (13.0 m³/s) Sept. 15, gage height, 1.91 ft (0.582 m); maximum gage height, 3.39 ft (1.033 m) Dec. 2, backwater from ice; minimum daily discharge, 107 ft³/s (3.03 m³/s) June 16, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	147	150	160	156	161	171	169	142	114	125	119
2	139	147	190	150	155	158	171	164	135	117	128	118
3	144	145	186	140	153	149	162	161	132	123	126	117
4	145	149	175	140	145	151	159	162	128	132	126	116
5	145	149	165	150	135	145	158	162	127	126	131	115
6	145	151	164	150	135	150	158	158	125	124	159	116
7	145	152	171	150	150	175	164	158	123	125	140	117
8	145	149	184	140	180	178	191	159	121	121	148	120
9	143	152	180	140	186	180	167	159	121	118	140	121
10	145	148	176	150	184	182	169	164	120	116	135	124
11	147	151	171	150	178	171	161	164	117	116	134	123
12	147	148	167	160	180	148	156	167	114	115	135	125
13	149	149	167	170	176	143	162	159	112	115	135	126
14	148	155	165	175	180	158	164	159	112	116	142	127
15	148	155	150	180	178	158	162	167	109	126	137	218
16	149	149	150	180	178	164	196	167	107	162	201	152
17	149	147	155	180	176	162	182	165	109	122	158	142
18	151	145	170	182	171	165	165	164	111	116	138	138
19	149	135	153	165	171	167	162	165	110	113	121	137
20	145	130	162	164	167	161	167	169	109	112	117	135
21	145	130	162	165	153	155	161	171	107	113	116	134
22	147	125	159	165	151	161	158	175	108	113	116	135
23	148	130	162	167	169	167	162	214	133	113	117	135
24	148	140	162	175	169	169	162	188	139	113	124	134
25	148	140	164	164	167	171	158	175	126	111	131	134
26	148	140	167	165	165	169	159	171	125	111	123	134
27	149	145	165	162	165	169	167	169	119	113	117	131
28	147	140	167	162	165	173	171	169	117	114	117	132
29	145	145	156	165	161	171	173	165	115	117	117	144
30	145	125	167	167	---	164	175	162	114	117	118	132
31	147	---	162	161	---	171	---	151	---	116	120	---
TOTAL	4527	4313	5144	4994	4799	5066	4993	5172	3587	3680	4092	3951
MEAN	146	144	166	161	165	163	166	167	120	119	132	132
MAX	151	155	190	182	186	182	196	214	142	162	201	218
MIN	132	125	150	140	135	143	156	151	107	111	116	115
AC-FT	8980	8550	10200	9910	9520	10050	9900	10260	7110	7300	8120	7840
CAL YR 1975	TOTAL	53337	MEAN 146	MAX 328	MIN 103	AC-FT 105800						
WTR YR 1976	TOTAL	54318	MEAN 148	MAX 218	MIN 107	AC-FT 107700						

PLATTE RIVER BASIN

99

06692500 LINCOLN COUNTY DRAIN NO. 1 NEAR NORTH PLATTE, NE

LOCATION.--Lat 41°09'40", long 100°47'25", in NE1/4NE1/4 sec.30, T.14 N., R.30 W., Lincoln County, Hydrologic Unit 10180014, on left bank 25 ft (8 m) upstream from highway bridge, 0.8 mi (1.3 km) upstream from mouth, and 1.5 mi (2.4 km) northwest of city of North Platte.

PERIOD OF RECORD.--March 1931 to September 1932 (published as Lincoln County drain at North Platte), April 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,805 ft (855.0 m), from topographic map. Prior to Apr. 29, 1955, nonrecording gage at datum 1.0 ft (0.30 m) higher.

REMARKS.--Records good. Discharge is chiefly return flow from irrigated area.

AVERAGE DISCHARGE.--22 years, 63.5 ft³/s (1.798 m³/s), 46,010 acre-ft/yr (56.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 588 ft³/s (16.7 m³/s) June 22, 1965, gage height, 4.05 ft (1.234 m); minimum daily, 20 ft³/s (0.57 m³/s) Dec. 30, 31, 1968, Feb. 6, 7, 9, Mar. 18, 19, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 184 ft³/s (5.21 m³/s) Aug. 8, gage height, 2.02 ft (0.616 m); maximum gage height, 2.36 ft (0.719 m) Nov. 21, backwater from ice; minimum daily discharge, 24 ft³/s (0.68 m³/s) Mar. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	47	35	34	29	29	58	68	69	101	127	127
2	130	47	36	30	29	29	56	66	66	103	131	139
3	129	46	36	30	29	27	59	67	72	97	129	139
4	128	47	36	32	28	26	60	63	68	130	121	148
5	128	45	36	29	28	26	60	62	67	129	130	149
6	125	45	35	29	28	26	56	62	73	121	140	146
7	124	45	34	31	29	26	57	52	70	100	146	140
8	82	45	36	31	29	26	67	49	65	82	176	139
9	68	44	36	29	29	26	72	61	68	83	163	137
10	67	44	36	28	29	26	68	72	84	76	155	138
11	67	43	36	28	29	27	66	81	86	68	158	128
12	68	41	35	29	29	26	68	117	87	70	163	124
13	67	41	36	29	30	26	57	111	97	73	157	133
14	66	41	36	29	30	26	43	105	95	73	152	128
15	65	41	36	29	29	26	42	101	104	80	153	135
16	64	41	35	28	29	26	48	101	113	88	149	137
17	64	41	34	29	30	26	45	102	105	73	121	123
18	63	41	35	29	30	26	45	101	110	76	92	99
19	62	38	36	29	29	26	44	94	108	78	99	99
20	61	35	36	30	30	26	46	81	110	76	103	114
21	60	30	36	30	29	26	50	80	102	84	106	116
22	60	36	35	29	29	25	49	91	100	91	99	119
23	60	35	35	29	29	25	48	108	116	90	102	118
24	58	36	35	29	29	25	45	107	126	90	100	119
25	54	38	35	29	29	25	46	90	113	90	104	121
26	53	37	35	28	29	25	47	69	104	91	112	119
27	52	37	35	29	29	25	59	60	113	95	110	117
28	50	36	34	29	29	25	63	64	120	99	112	117
29	49	37	34	29	29	24	64	70	119	103	126	117
30	49	35	34	29	---	25	62	69	119	103	128	116
31	48	---	33	29	---	40	---	69	---	121	125	---
TOTAL	2351	1215	1092	911	843	818	1650	2493	2849	2834	3989	3801
MEAN	75.8	40.5	35.2	29.4	29.1	26.4	55.0	80.4	95.0	91.4	129	127
MAX	130	47	36	34	30	40	72	117	126	130	176	149
MIN	48	30	33	28	28	24	42	49	65	68	92	99
AC-FT	4660	2410	2170	1810	1670	1620	3270	4940	5650	5620	7910	7540
CAL YR 1975	TOTAL	22489	MEAN 61.6	MAX 166	MIN 22	AC-FT 44610						
WTF YR 1976	TOTAL	24846	MEAN 67.9	MAX 176	MIN 24	AC-FT 49280						

PLATTE RIVER BASIN

06693000 NORTH PLATTE RIVER AT NORTH PLATTE, NE

LOCATION.--Lat 41°09'13", long 100°45'16", in sec.28, T.14 N., R.30 W., Lincoln County, Hydrologic Unit 10180014, on right bank 150 ft (46 m) downstream from bridge on U.S. Highway 83, 0.5 mi (0.8 km) north of city of North Platte, and 4.5 mi (7.2 km) upstream from confluence with South Platte River.

DRAINAGE AREA (REVISED).--30,900 mi² (80,000 km²), approximately, of which about 26,300 mi² (68,100 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide basin is not included.

PERIOD OF RECORD.--February 1895 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WDR NE-67: Drainage area. WSP 2118: 1915 (M).

GAGE.--Water-stage recorder. Datum of gage is 2,792.14 ft (851.044 m) above mean sea level (Nebraska Department of Roads bench mark). See WSP 2118 for history of changes prior to June 3, 1968.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 29,600 ft³/s (838 m³/s) June 11, 1909, discharge measurement; minimum daily, 20 ft³/s (0.57 m³/s) Sept. 20, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,560 ft³/s (101 m³/s) Aug. 30, gage height, 5.37 ft (1.637 m); minimum daily, 225 ft³/s (6.37 m³/s) June 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	325	652	440	450	440	377	308	370	307	2050	1960	3400
2	325	661	440	350	450	370	302	337	296	2090	2100	3220
3	331	652	450	300	436	363	314	313	271	2280	2000	2880
4	350	652	460	300	430	350	320	296	253	2470	1880	2540
5	357	643	470	300	430	350	320	301	241	2450	1850	2390
6	357	643	470	280	420	350	320	301	235	2310	2050	2300
7	350	643	480	270	420	400	338	283	235	2220	1960	2160
8	344	634	480	270	450	420	428	265	230	2130	2000	2100
9	370	643	480	280	450	435	468	283	225	1920	1920	1840
10	391	661	450	290	460	427	398	313	242	1770	1770	1680
11	344	652	436	300	475	443	370	313	230	1710	1590	1500
12	307	671	413	320	467	435	357	405	413	1740	1480	1430
13	296	671	392	340	435	398	325	405	680	1750	1440	1440
14	296	634	390	360	459	413	290	526	710	1840	1510	1350
15	307	634	380	380	468	427	277	508	850	1990	1610	1550
16	307	643	370	380	468	435	344	536	946	2000	1660	1670
17	337	643	360	380	468	427	370	581	860	1980	1780	1330
18	350	643	360	390	452	405	363	554	1190	1950	1530	1140
19	357	661	380	400	427	398	370	553	1260	1950	1390	1050
20	350	600	380	410	384	391	357	427	1250	2000	1440	1020
21	357	550	380	420	344	405	337	398	1200	2080	1710	967
22	344	540	420	430	427	427	319	491	1320	2150	2050	923
23	357	520	480	450	459	398	313	661	1920	2210	2330	880
24	459	500	491	430	451	384	331	709	2470	2210	2570	901
25	562	480	500	410	435	370	331	652	2450	2120	2810	1140
26	634	450	526	410	405	350	331	535	2280	2020	3120	1230
27	661	440	543	410	398	344	370	467	2130	2020	3250	1210
28	643	430	562	420	405	325	420	427	2020	2000	3350	1200
29	671	430	526	430	405	337	451	350	1980	2000	3440	1220
30	661	430	535	430	---	301	420	325	2060	2000	3530	1210
31	652	---	535	440	---	307	---	325	---	1980	3460	---
TOTAL	12752	17706	13979	11430	12618	11962	10562	13210	30754	63390	66540	48871
MEAN	411	590	451	369	435	386	352	426	1025	2045	2146	1629
MAX	671	671	562	450	475	443	468	709	2470	2470	3530	3400
MIN	296	430	360	270	344	301	277	265	225	1710	1390	880
AC-FT	25290	35120	27730	22670	25030	23730	20950	26200	61000	125700	132000	96940
CAL YR 1975	TOTAL	230081	MEAN 630	MAX	2900	MIN 189	AC-FT	456400				
WTR YR 1976	TOTAL	313774	MEAN 857	MAX	3530	MIN 225	AC-FT	622400				

PLATTE RIVER BASIN

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06762500 LODGEPOLE CREEK AT BUSHNELL, NE

LOCATION.--Lat 41°13'43", long 103°48'03", in sec.33, T.15 N., R.57 W., Kimball County, Hydrologic Unit 10190016, on right bank 1.5 mi (2.4 km) east of Bushnell and 1.5 mi (2.4 km) upstream from Oliver Reservoir.

DRAINAGE AREA.--1,361 mi² (3,525 km²).

PERIOD OF RECORD.--October 1931 to current year. Records for March to September 1931 at site 1.5 mi (2.4 km) upstream not equivalent owing to diversions. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1390: 1933, 1935, 1937-38, 1941, 1948-49. WSP 1730: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,812.3 ft (1,466.79 m) above mean sea level. Prior to Mar. 26, 1938, nonrecording gage at present site and datum.

REMARKS.--Records good. Natural flow of stream affected by ground-water withdrawals and diversions for irrigation and return flow from irrigated areas. Diversions for irrigation of about 12,600 acres (51.0 km²) above station.

AVERAGE DISCHARGE.--45 years, 11.5 ft³/s (0.326 m³/s), 8,330 acre-ft/yr (10.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s (467 m³/s) Sept. 15, 1950, gage height, 9.98 ft (3.042 m), from rating curve extended above 2,700 ft³/s (76.5 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.09 ft³/s (0.003 m³/s) July 20, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36 ft³/s (1.02 m³/s) Aug. 5, gage height, 2.40 ft (0.732 m); maximum gage height, 3.56 ft (1.085 m), from highwater mark in well, probably occurred Jan. 1 or 2, backwater from snow in channel; minimum daily discharge, 0.09 ft³/s (0.003 m³/s) July 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	4.2	4.9	5.0	6.2	8.1	7.0	5.3	3.2	.85	4.0	1.2
2	3.2	4.2	6.2	5.0	6.0	7.1	6.8	5.5	3.2	.85	3.0	1.1
3	3.1	4.2	5.8	5.4	6.0	7.1	6.4	5.3	3.8	.85	3.0	1.0
4	3.4	4.2	5.3	5.6	3.8	5.8	6.2	5.5	3.7	.76	3.1	.85
5	3.1	4.2	5.1	5.8	5.5	6.5	6.5	5.8	3.7	.76	10	.85
6	3.1	4.2	5.1	5.8	4.9	6.5	6.8	5.3	3.7	.58	4.2	.58
7	3.2	4.2	5.3	6.0	5.3	6.8	6.5	5.8	3.8	.67	3.7	.76
8	3.2	4.7	5.3	6.2	6.8	6.8	6.8	6.0	3.7	.58	3.4	1.0
9	3.5	4.4	5.5	7.0	6.2	8.1	6.8	6.0	3.7	.49	3.1	1.2
10	3.4	4.4	5.8	7.0	5.5	9.0	6.5	6.2	3.4	.40	2.8	1.3
11	3.7	4.2	5.8	8.0	5.5	8.7	6.2	5.8	3.1	.31	2.4	1.3
12	3.4	4.0	5.5	8.0	6.2	5.1	6.2	5.5	2.8	.31	2.4	1.5
13	3.8	4.4	5.1	8.0	7.8	6.8	6.2	5.1	2.6	.31	2.2	1.8
14	4.0	4.4	4.7	8.0	6.8	6.8	5.8	4.9	2.8	.49	1.6	1.9
15	3.8	4.4	5.1	8.0	6.8	7.4	5.8	4.4	2.8	.31	1.5	1.9
16	4.0	4.9	4.9	7.8	6.2	6.8	6.2	4.2	2.6	.22	2.0	1.9
17	3.8	4.9	4.4	8.4	6.2	7.1	6.2	4.0	2.6	.49	1.4	1.6
18	3.8	4.4	4.7	8.1	5.8	7.1	6.0	3.8	2.8	.22	1.6	1.5
19	3.8	4.2	5.1	6.8	4.9	6.8	6.0	3.8	3.4	.31	1.1	1.8
20	3.8	5.8	5.1	6.5	8.1	6.0	6.2	3.8	2.6	.09	.85	2.0
21	3.7	4.4	5.1	6.8	6.0	6.0	6.0	3.7	1.9	.22	.85	2.1
22	3.7	4.0	5.5	7.1	5.8	6.8	5.8	5.1	4.2	2.2	.94	2.0
23	4.0	4.9	4.9	6.8	6.0	7.1	5.8	5.5	4.0	.90	1.0	2.1
24	4.2	4.4	5.3	6.5	6.5	6.5	5.1	4.9	3.2	.90	1.4	2.0
25	3.8	3.4	5.8	5.8	8.4	6.8	5.3	4.2	2.9	1.1	.94	2.0
26	4.2	4.7	5.8	5.5	8.7	6.5	5.8	4.0	2.6	1.6	1.0	2.1
27	4.2	5.1	6.0	6.2	9.3	6.2	5.8	3.7	2.3	3.1	1.0	2.2
28	4.2	5.1	5.1	6.5	9.0	6.5	6.8	3.2	2.1	2.1	1.3	2.3
29	4.2	6.5	5.5	7.4	8.4	6.5	6.8	3.1	1.5	1.5	1.3	2.3
30	4.2	3.1	6.0	6.8	---	7.4	6.2	3.5	1.0	1.1	1.3	2.3
31	4.2	---	5.5	6.2	---	7.2	---	3.5	---	1.8	1.4	---
TOTAL	115.0	134.1	165.2	208.0	188.6	213.9	186.5	146.4	89.7	26.37	69.78	48.44
MEAN	3.71	4.47	5.33	6.71	6.50	6.90	6.22	4.72	2.99	.85	2.25	1.61
MAX	4.2	6.5	6.2	8.4	9.3	9.0	7.0	6.2	4.2	3.1	10	2.3
MIN	3.1	3.1	4.4	5.0	3.8	5.1	5.1	3.1	1.0	.09	.85	.58
AC-FT	228	266	328	413	374	424	370	290	178	52	138	96
CAL YR 1975	TOTAL	1889.60	MEAN	5.18	MAX	17	MIN	1.1	AC-FT	3750		
WTR YR 1976	TOTAL	1591.99	MEAN	4.35	MAX	10	MIN	.09	AC-FT	3160		

PLATTE RIVER BASIN

06762550 LODGEPOLE CREEK AT KIMBALL, NE

LOCATION.--Lat 41°14'50", long 103°38'32", in NW1/4SW1/4NW1/4 sec.28, T.15 N., R.55 W., Kimball County, Hydrologic Unit 10190016, at bridge on county road 0.8 mi (1.3 km) north of U.S. Highway 30 at east edge of Kimball.

PERIOD OF RECORD.--Water year 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPECIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT											
14...	1245	4.5	535	7.4	9.5	25	12.4	49	5700	1200	26
NOV											
17...	1300	8.2	502	7.5	8.0	40	12.8	--	36000	6300	26
DEC											
15...	1300	8.6	661	7.3	.0	30	10.1	4.6	32000	7200	29
JAN											
19...	1345	8.0	550	7.2	.0	35	10.2	7.6	40000	12000	27
FEB											
18...	1300	12	595	7.3	4.0	45	10.6	8.8	5800	4200	22
MAR											
15...	1300	15	480	7.3	7.0	40	11.0	6.0	12000	6000	22
APR											
12...	1245	8.6	530	7.3	19.0	40	9.1	44	28000	7000	25
MAY											
17...	1300	3.6	538	7.6	18.0	40	9.0	9.2	>60000	12000	34
JUN											
14...	1240	.87	674	7.7	15.0	45	9.6	33	180000	69000	53
JUL											
19...	1230	.83	372	7.6	23.0	20	9.6	18	5400	2100	37
AUG											
16...	1245	.60	800	8.1	26.0	15	12.6	9.6	27000	8900	63
SEP											
13...	1240	.39	928	8.1	21.0	15	8.6	21	7300	--	87

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT										
14...	338	.46	4.11	1.2	.75	1.1	1.8	3.0	.90	.81
NOV										
17...	--	.44	7.20	1.5	.74	1.7	2.4	3.9	.56	.42
DEC										
15...	412	.56	9.57	2.1	1.1	2.4	3.5	5.6	.70	.62
JAN										
19...	370	.50	7.99	1.8	.98	1.8	2.8	4.6	.65	.47
FEB										
18...	--	.43	10.3	1.9	.39	2.0	2.4	4.3	.52	.26
MAR										
15...	337	.46	13.6	1.7	1.2	1.6	2.8	4.5	.37	.25
APR										
12...	345	.47	8.01	2.2	.74	1.8	2.5	4.7	.58	.45
MAY										
17...	--	.47	3.37	1.9	1.4	1.2	2.6	4.5	1.3	1.1
JUN										
14...	456	.62	1.07	6.2	.30	1.8	2.1	8.3	2.8	.28
JUL										
19...	416	.57	.93	6.9	3.3	.40	3.7	11	4.3	3.8
AUG										
16...	--	.66	.78	8.0	3.3	2.7	6.0	14	3.9	3.7
SEP										
13...	552	.75	.58	.58	9.0	1.0	10	11	7.0	6.6

PLATTE RIVER BASIN

103

06762550 LODGEPOLE CREEK AT KIMBALL, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HC03) (MG/L) (00440)
NOV 17...	1300	11	200	1	55	15	34	1.0	8.7	241
FEB 18...	1300	18	200	1	57	13	29	.9	9.1	238
MAY 17...	1300	10	200	6	53	16	39	1.2	8.2	234
AUG 16...	1245	40	220	0	64	15	72	2.1	14	284

DATE	CAR- BONATE (C03) (MG/L) (00445)	ALKA- LINIT AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
NOV 17...	0	198	35	.7	32	325	8	100	1	0
FEB 18...	0	195	34	.7	37	319	--	80	--	--
MAY 17...	0	192	39	.8	41	347	7	150	3	<10
AUG 16...	0	233	69	.8	44	482	--	360	--	--

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
NOV 17...	33	50	3	20	1.8	.4	1.4	2	0	20
FEB 18...	--	90	--	50	--	--	--	--	--	--
MAY 17...	10	40	11	20	<.5	.0	<.5	1	0	30
AUG 16...	--	40	--	30	--	--	--	--	--	--

PLATTE RIVER BASIN

06763500 LODGEPOLE CREEK AT RALTON, NE

LOCATION.--Lat 41°02'00", long 102°24'00", in NE1/4NW1/4 sec.12, T.12 N., R.45 W., Deuel County, Hydrologic Unit 10190016, on right bank 20 ft (6 m) downstream from county road bridge at Ralton, 2.1 mi (3.4 km) north of Colorado-Nebraska State line, and 5.5 mi (8.8 km) southeast of Chappell.

DRAINAGE AREA.--3,307 mi² (8,565 km²).

PERIOD OF RECORD.--March to September 1931, June 1951 to current year.

REVISED RECORDS.--WSP 1730: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 3,590 ft (1,094 m), from topographic map. March to September 1931, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum.

REMARKS.--Natural flow of stream affected by ground-water withdrawals and diversions for irrigation and return flow from irrigated areas. Diversion for irrigation of about 24,300 acres (98.3 km²) above station.

AVERAGE DISCHARGE.--25 years (1951-76), 9.31 ft³/s (0.264 m³/s), 6,750 acre-ft/yr (8.32 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,560 ft³/s (129 m³/s) Aug. 15, 1968, gage height, 6.49 ft (1.978 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of slope-area measurement of peak flow; no flow at times in 1931, 1955, 1957, 1960, 1963-65, 1968, 1973-75, 1976 (entire year).

EXTREMES FOR CURRENT YEAR.--No flow during entire year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
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		---			---		---		---			---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0
CAL YR 1975	TOTAL	29.46	MEAN	.081	MAX	8.3	MIN	0	AC-FT	58		
WTR YR 1976	TOTAL	0.00	MEAN	.0000	MAX	.00	MIN	0	AC-FT	.0		

06764000 SOUTH PLATTE RIVER AT JULESBURG, CO

LOCATION.--Lat 40°58'46", long 102°15'15", in NW1/4NE1/4 and SE1/4NE1/4 (two channels) sec.33, T.12 N., R.44 W., Sedgwick County, Hydrologic Unit 10190018, on left bank of channel no. 4 (left channel) 215 ft (66 m) downstream from bridge, and on right bank of channel no. 2, 800 ft (244 m) downstream from bridge on U.S. Highway 385, 0.9 mi (1.4 km) southeast of Julesburg, 3.0 mi (4.8 km) upstream from Colorado-Nebraska State line, and 8 mi (13 km) downstream from Lodgepole Creek.

DRAINAGE AREA.--23,138 mi² (59,927 km²).

PERIOD OF RECORD.--April 1902 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "near Julesburg" 1903-8, 1915-16, and as "at Ovid" 1922-24.

REVISED RECORDS.--WSP 1310: 1902, 1906-7, 1948(P). WSP 1440: 1903-4. WSP 1730: Drainage area.

GAGE.--Two water-stage recorders. Datum of gages is 3,446.76 ft (1,050.572 m) above mean sea level. See WSP 1710 or 1730 for history of changes prior to Oct. 1, 1956. Since Oct. 1, 1956, water-stage recorders on channels nos. 2 and 4. Channel no. 2: Oct. 1, 1956, to Sept. 22, 1965, at site 300 ft (90 m) downstream at present datum. Channel no. 4: Oct. 1, 1956, to Dec. 10 1958, at site 135 ft (41.1 m) downstream at present datum. Since May 11, 1973, supplementary water-stage recorder on channel no. 2 at bridge 800 ft (240 m) upstream at same datum.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, groundwater withdrawals and diversions for irrigation of 1,200,000 acres (4,860 km²) above station, and return flow from irrigated areas. Water quality records for the current water year are published in WDR CO-76.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geoclogical Survey.

AVERAGE DISCHARGE.--74 years, 482 ft³/s (13.65 m³/s), 349,200 acre-ft/yr (0.431 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,600 ft³/s (1,060 m³/s) June 20, 1965; gage height, 10.44 ft (3.182 m), from floodmarks in gage well; no flow Aug. 18-20, 1902, July 25 to Aug 7, 1903.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 985 ft³/s (27.9 m³/s) Jan. 20, gage height, 4.27 ft (1.301 m), minimum daily, 10 ft³/s (0.28 m³/s) Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	101	260	436	642	361	305	140	140	27	24	13
2	208	101	259	167	594	370	257	124	105	28	25	12
3	236	102	367	172	537	362	246	107	94	30	29	12
4	204	99	454	176	513	431	222	97	86	26	26	11
5	188	100	495	235	355	430	185	97	82	26	29	13
6	193	100	530	275	280	570	173	89	72	23	22	10
7	184	140	521	350	350	660	165	77	69	24	17	11
8	178	192	468	380	410	710	178	68	60	25	17	12
9	162	214	432	390	605	765	158	65	58	26	20	12
10	141	225	406	390	684	738	136	62	56	25	21	11
11	135	231	393	415	727	744	134	48	45	23	20	11
12	133	232	357	455	681	717	124	45	33	26	20	12
13	131	239	366	540	578	691	123	38	29	28	22	14
14	122	244	353	623	520	695	111	35	28	26	18	21
15	122	244	286	666	481	704	106	34	28	25	15	27
16	121	247	255	700	435	651	107	35	27	25	16	36
17	130	254	261	756	425	548	119	34	26	24	12	39
18	113	244	193	870	432	547	118	32	25	20	11	43
19	110	255	219	952	382	490	110	31	24	20	17	47
20	108	180	273	942	365	466	104	36	24	24	19	60
21	102	136	339	910	321	442	102	35	27	24	19	59
22	104	138	425	868	340	416	124	54	30	25	18	71
23	102	162	495	875	361	414	131	116	98	20	16	111
24	102	199	557	853	366	389	139	127	50	14	18	143
25	105	233	617	670	356	326	137	147	43	12	18	140
26	105	256	647	547	357	321	118	162	42	12	16	128
27	103	231	647	520	331	362	115	183	36	11	14	102
28	101	259	656	578	325	340	130	200	34	19	14	88
29	101	299	584	715	327	328	136	188	30	24	11	85
30	101	272	639	783	---	291	141	200	28	25	11	76
31	101	---	630	676	---	300	---	172	---	26	11	---
TOTAL	4233	5929	13384	17885	13080	15579	4454	2878	1529	713	566	1430
MEAN	137	198	432	577	451	503	148	92.8	51.0	23.0	18.3	47.7
MAX	236	299	656	952	727	765	305	200	140	30	29	143
MIN	101	99	193	167	280	291	102	31	24	11	11	10
AC-FT	8400	11760	26550	35470	25940	30900	8830	5710	3030	1410	1120	2840
CAL YR 1975	TOTAL	134447	MEAN	368	MAX	2360	MIN	34	AC-FT	266700		
WTR YR 1976	TOTAL	81660	MEAN	223	MAX	952	MIN	10	AC-FT	162000		

PLATTE RIVER BASIN

06764880 SOUTH PLATTE RIVER AT ROSCOE, NE

LOCATION.--Lat 41°07'33", long 101°34'35", in NW1/4SW1/4 sec.4, T.13 N., R.37 W., Keith County, Hydrologic Unit 10190018, at bridge on access road between U.S. Highway 30 and Interstate 80, about 0.5 mi (0.8 km) southeast of Roscoe.

PERIOD OF RECORD.--July 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLOR- IDE (CL) (MG/L) (00940)
OCT											
29...	1100	88	1590	7.5	10.0	25	14.4	4.6	41	380	87
NOV											
25...	1300	40	2060	7.1	.0	20	9.2	2.0	60	52	87
DEC											
17...	1130	268	2600	7.5	.0	15	11.6	4.4	160	290	86
JAN											
21...	1330	900	1540	7.3	.0	35	11.0	4.2	57	150	60
FEB											
24...	1100	432	2000	7.5	5.0	75	11.2	3.3	210	300	79
MAR											
23...	1000	441	1960	7.4	8.0	45	10.1	2.0	55	160	78
APR											
27...	1145	161	1860	7.5	5.0	30	11.2	3.4	730	1200	79
MAY											
25...	1120	126	2100	7.6	12.0	25	9.6	5.0	5500	1500	82
JUN											
21...	1115	17	1580	7.7	23.0	15	12.3	3.2	70	70	77
JUL											
27...	1100	2.6	1650	7.7	30.0	5	10.1	1.0	220	180	78
AUG											
23...	1100	.12	1670	7.8	28.0	5	8.8	3.2	130	130	89
SEP											
28...	1130	37	1900	7.2	12.0	5	10.1	3.5	87	730	86

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT										
29...	1510	2.05	360	.83	.14	1.1	1.2	2.0	.09	.00
NOV										
25...	--	2.07	164	1.4	.18	1.9	2.1	3.5	.15	.07
DEC										
17...	1730	2.35	1250	2.2	.17	1.3	1.5	3.7	.20	.17
JAN										
21...	1330	1.81	3230	3.1	.39	1.3	1.7	4.8	.32	.22
FEB										
24...	--	1.90	1630	2.7	.14	1.6	1.7	4.4	.45	.21
MAR										
23...	1540	2.09	1830	3.5	.05	1.5	1.5	5.0	.42	.28
APR										
27...	1470	2.00	639	1.5	.08	.90	.98	2.5	.21	.11
MAY										
25...	--	1.93	483	.89	.14	1.1	1.2	2.1	.22	.13
JUN										
21...	1340	1.82	61.5	.04	.16	.59	.75	.79	.22	.15
JUL										
27...	1170	1.59	8.21	.02	.00	.43	.43	.45	.22	.21
AUG										
23...	--	1.63	.39	.02	.00	.36	.36	.38	.21	.18
SEP										
28...	1490	2.03	149	.04	.00	.81	.81	.85	.13	.11

PLATTE RIVER BASIN

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06764880 SOUTH PLATTE RIVER AT ROSCOE, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HC03) (MG/L) (00440)
NOV 25...	1300	6	760	520	200	63	200	3.2	18	292
FEB 24...	1100	6	710	460	190	57	170	2.8	16	306
MAY 25...	1120	5	700	490	180	60	190	3.1	17	252
AUG 23...	1100	4	580	380	150	50	170	3.1	16	249

DATE	CAN- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
NOV 25...	0	240	800	.4	8.2	1520	3	300	0	10
FEB 24...	0	251	710	.8	21	1400	--	280	--	--
MAY 25...	0	207	750	.7	19	1420	0	220	0	<10
AUG 23...	0	204	580	.8	22	1200	--	290	--	--

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (MG) (UG/L) (71900)	SUS- PENDE MERCURY (MG) (UG/L) (71895)	DIS- SOLVED MERCURY (MG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
NOV 25...	60	20	5	60	1.4	.0	1.4	4	0	140
FEB 24...	--	10	--	440	--	--	--	--	--	--
MAY 25...	20	20	3	40	<.5	.0	<.5	0	0	70
AUG 23...	--	0	--	130	--	--	--	--	--	--

PLATTE RIVER BASIN

06765500 SOUTH PLATTE RIVER AT NORTH PLATTE, NE

LOCATION.--Lat 41°07'05", long 100°46'22", in NE1/4NE1/4 sec.8, T.13 N., R.30 W., Lincoln County, Hydrologic Unit 10190018, on left bank 0.5 mi (0.8 km) upstream from bridge on U.S. Highway 83, 0.7 mi (1.1 km) northwest of intersection of U.S. Highway 83 and Interstate 80 south of North Platte, and 5.5 mi (8.8 km) upstream from confluence with North Platte River.

DRAINAGE AREA.--24,300 mi² (62,900 km²), approximately.

PERIOD OF RECORD.--June to November 1897, June to August 1914, May to September 1915, and May 1917 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1390: 1932-33, 1935.

GAGE.--Water-stage recorder. Datum of gage is 2,787.73 ft (849.700 m) above mean sea level. See WSP 1918 for history of changes prior to Dec. 11, 1956. Dec. 11, 1956, to Mar. 29, 1973, at site 0.5 mi (0.8 km) downstream at same datum.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. South Platte canal diverts around station; diversion began Nov. 13, 1946.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 37,100 ft³/s (1,050 m³/s) June 3, 1935, gage height, 14.02 ft (4.273 m), present datum; no flow at times in summers of most years prior to 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 387 ft³/s (11.0 m³/s) Jan. 21, gage height, 7.85 ft (2.393 m), backwater from ice; maximum gage height, 8.01 ft (2.441 m) Jan. 20, backwater from ice; minimum daily discharge, 108 ft³/s (3.06 m³/s) July 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	202	190	140	202	165	144	170	220	160	145	109
2	160	208	200	130	240	165	138	171	217	150	152	120
3	165	208	200	120	262	165	145	167	221	155	160	125
4	150	215	200	110	260	160	138	170	220	202	175	139
5	150	218	220	120	250	155	139	165	209	196	199	144
6	150	199	202	115	250	155	143	160	202	180	210	136
7	160	177	180	110	240	160	146	165	196	174	210	125
8	165	180	170	120	230	158	163	180	181	169	237	138
9	165	176	170	130	232	168	165	180	172	159	235	151
10	165	177	185	140	205	168	165	202	160	131	222	163
11	165	174	180	145	192	180	164	190	144	116	227	160
12	165	219	170	145	204	185	169	214	136	108	214	155
13	155	230	165	145	211	202	166	190	132	112	208	173
14	150	242	150	150	228	170	175	196	136	114	202	181
15	155	273	150	155	238	165	180	202	136	132	202	198
16	160	279	175	175	218	170	206	196	137	132	187	183
17	145	241	175	200	196	170	210	202	132	141	163	172
18	134	184	175	250	185	170	219	202	137	137	154	170
19	135	186	185	280	187	170	201	202	148	128	143	175
20	140	228	180	300	190	157	182	202	146	125	125	178
21	136	190	170	380	244	163	183	202	141	135	121	180
22	137	175	160	350	210	165	171	207	150	140	120	182
23	137	183	155	300	189	165	173	239	165	139	120	180
24	141	166	155	270	179	165	180	251	180	139	113	180
25	149	160	160	250	199	160	167	251	191	133	116	171
26	149	150	155	240	194	155	174	251	191	130	119	167
27	149	140	155	220	175	160	184	243	185	133	112	163
28	150	150	155	205	160	170	187	240	180	138	110	172
29	171	150	155	214	163	160	192	246	191	144	130	175
30	198	180	155	196	---	155	180	233	185	154	134	175
31	207	---	160	196	---	147	---	220	---	153	113	---
TOTAL	4823	5860	5357	6001	6133	5123	5149	6309	5141	4459	5078	4840
MEAN	156	195	173	194	211	165	172	204	171	144	164	161
MAX	207	279	220	380	262	202	219	251	221	202	237	198
MIN	134	140	150	110	160	147	138	160	132	108	110	109
AC-FT	9570	11620	10630	11900	12160	10160	10210	12510	10200	8840	10070	9600
CAL YR 1975	TOTAL	83691	MEAN	229	MAX	1900	MIN	100	AC-FT	166000		
WTR YR 1976	TOTAL	64273	MEAN	176	MAX	380	MIN	108	AC-FT	127500		

PLATTE RIVER BASIN

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06766000 PLATTE RIVER AT BRADY, NE

LOCATION.--Lat 41°01'10", long 100°22'16" (north channel only), on two channels in secs.11 and 23, T.12 N., R.27 W., Lincoln County, Hydrologic Unit 10200101, on downstream side of highway bridges 0.5 mi (0.8 km) and 2.5 mi (4.0 km), respectively, south of Brady and 18 mi (29 km) downstream from confluence of North Platte and South Platte Rivers.

DRAINAGE AREA (REVISED).--56,200 mi² (145,600 km²), approximately, of which about 51,400 mi² (133,100 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide basin is not included.

PERIOD OF RECORD.--May to September 1937, May 1938 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1390: 1941(M). WDR NE-67: Drainage area.

GAGE.--Two water-stage recorders. Datum of gage on north channel is 2,639.19 ft (804.425 m) and on south channel, 2,641.66 ft (805.178 m) above mean sea level. No information available on gages operated by State engineer prior to Nov. 18, 1938. Nov. 18, 1938, to Sept. 30, 1942, gage on north channel at datum 1 ft (0.3 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Tri-County main supply canal, capacity, about 2,000 ft³/s (56.6 m³/s), diverts 18 mi (29 km) above station; diversion started Nov. 26, 1940. River flows in two channels for which separate records are computed; figures given herein represent combined discharge.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft³/s (527 m³/s) May 14, 1973; no flow Aug. 22-24, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,860 ft³/s (52.7 m³/s) July 13; minimum daily, 92 ft³/s (2.61 m³/s) Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	110	135	96	181	158	139	187	170	853	1380	1310
2	106	116	124	102	181	158	140	171	205	1120	1450	1310
3	104	117	136	106	181	136	132	162	186	1090	1410	1160
4	105	114	135	102	152	136	134	161	166	1210	1300	910
5	101	123	142	124	139	171	135	157	158	1330	1170	621
6	104	123	150	118	135	210	142	152	173	1300	1280	473
7	98	123	148	116	142	217	173	142	157	1180	1310	376
8	98	123	166	118	220	207	277	137	143	1100	1350	256
9	97	123	180	120	242	204	251	135	131	1280	1340	177
10	97	123	176	122	305	171	217	123	130	1270	1200	129
11	102	120	157	124	313	165	191	114	125	1380	1080	104
12	114	119	150	124	275	119	188	137	119	1460	939	96
13	106	125	130	122	230	235	186	137	116	1710	914	142
14	103	120	122	120	219	247	174	136	117	1710	955	105
15	100	117	110	134	210	238	182	133	113	1690	1040	133
16	100	117	104	140	204	234	208	133	117	1780	1080	178
17	101	117	108	141	203	221	223	133	135	1670	1150	156
18	104	118	112	157	202	215	244	133	132	1580	992	134
19	104	92	114	163	184	204	233	131	122	1490	846	123
20	105	93	117	168	166	185	218	126	147	1620	762	122
21	105	96	123	172	122	178	204	166	177	1640	834	118
22	106	105	129	178	218	173	191	251	139	1650	935	116
23	110	100	135	185	197	164	178	330	300	1590	804	113
24	117	97	142	182	178	157	168	350	1080	1550	758	113
25	111	96	142	179	181	156	163	305	1250	1500	838	128
26	111	96	142	169	178	152	162	279	1210	1490	853	140
27	108	103	139	154	178	142	183	246	1110	1490	1090	127
28	108	110	150	181	181	144	194	224	1090	1500	1220	124
29	108	130	143	181	174	144	195	204	880	1480	1270	118
30	109	140	147	180	---	136	192	193	828	1430	1300	118
31	109	---	126	186	---	139	---	175	---	1380	1320	---
TOTAL	3256	3406	4234	4464	5691	5516	5617	5563	10926	44523	34170	9230
MEAN	105	114	137	144	196	178	187	179	364	1436	1102	308
MAX	117	140	180	186	313	247	277	350	1250	1780	1450	1310
MIN	97	92	104	96	122	119	132	114	113	853	758	96
AC-FT	6460	6760	8400	8850	11290	10940	11140	11030	21670	88310	67780	18310

CAL YR 1975 TOTAL 130649 MEAN 358 MAX 2200 MIN 92 AC-FT 259100
WTR YR 1976 TOTAL 136596 MEAN 373 MAX 1780 MIN 92 AC-FT 270900

PLATTE RIVER BASIN

06766500 PLATTE RIVER NEAR COZAD, NE

LOCATION.--Lat 40°50'08", long 99°59'13" (north channel) and lat 40°49'47", long 99°59'18" (south channel), in S1/2 sec.18, T.10 N., R.23 W., Dawson County, Hydrologic Unit 10200101, on downstream side of highway bridges, 1.5 mi (2.4 km) south of Cozad.

DRAINAGE AREA (REVISED).--56,500 mi² (146,300 km²), approximately, of which about 51,700 mi² (133,900 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide basin is not included.

PERIOD OF RECORD.--July to September 1932, May 1937 to current year (prior to April 1939, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WDR NE-67: Drainage area.

GAGE.--Two water-stage recorders. Datum of gage on south channel is 2,473.07 ft (753.792 m) and on north channel, 2,475.72 ft (754.599 m) above mean sea level (Nebraska Department of Roads bench mark). See WSP 2118 for history of changes prior to May 10, 1966. May 10, 1966 to May 10, 1976 at datum 1.0 ft (0.30 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. River flows in two channels for which separate records are computed; figures given herein represent combined discharge.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft³/s (521 m³/s) May 29, 1973; no flow at times in 1937-40.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 624 ft³/s (17.7 m³/s) June 26; minimum daily, 38 ft³/s (1.08 m³/s) June 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	185	260	180	342	253	246	318	46	54	62	215
2	153	188	230	140	345	243	233	303	42	64	70	321
3	166	192	217	150	345	224	230	293	69	268	161	354
4	155	192	230	160	270	230	233	241	100	265	181	370
5	149	189	237	162	205	151	250	166	98	298	155	248
6	149	166	237	172	212	243	264	117	96	273	97	130
7	159	151	237	186	280	277	273	87	89	165	102	98
8	141	182	243	185	297	305	474	57	69	88	118	122
9	141	186	253	194	351	304	504	51	42	64	145	131
10	149	191	263	193	412	300	463	42	38	64	138	104
11	152	191	263	197	396	290	407	47	38	59	81	85
12	155	188	257	202	393	290	392	68	39	84	71	71
13	158	185	260	207	381	268	377	76	43	74	67	74
14	160	188	208	212	378	321	365	75	46	152	72	89
15	159	195	195	227	370	351	357	75	42	149	61	87
16	159	195	180	286	363	347	420	73	41	97	104	81
17	155	201	201	313	355	333	430	61	45	126	116	81
18	162	204	204	288	348	322	430	46	39	113	74	87
19	162	200	174	295	337	315	434	41	40	72	66	78
20	168	155	183	291	330	304	423	41	40	62	65	69
21	168	150	183	295	301	297	392	46	40	126	65	65
22	173	150	186	309	287	294	370	141	43	197	104	64
23	169	156	183	330	303	294	344	275	68	195	111	76
24	177	156	179	341	309	294	320	265	142	172	74	67
25	176	140	171	337	300	286	310	269	384	150	74	79
26	177	129	179	291	294	283	306	212	553	114	78	92
27	183	177	195	291	286	276	308	165	545	123	75	107
28	182	236	223	301	276	273	301	135	452	130	76	105
29	182	284	236	337	263	286	337	109	346	151	76	105
30	182	253	226	348	---	267	336	81	136	130	75	107
31	185	---	229	341	---	257	---	54	---	80	117	---
TOTAL	5028	5555	6722	7761	9329	8778	10529	4030	3811	4159	2931	3762
MEAN	162	185	217	250	322	283	351	130	127	134	94.5	125
MAX	185	284	263	348	412	351	504	318	553	298	181	370
MIN	122	129	171	140	205	151	230	41	38	54	61	64
AC-FT	9970	11020	13330	15390	18500	17410	20880	7990	7560	8250	5810	7460
CAL YR 1975	TOTAL	82758	MEAN 227	MAX 1460	MIN 32	AC-FT 164200						
WTR YR 1976	TOTAL	72395	MEAN 198	MAX 553	MIN 38	AC-FT 143600						

06768000 PLATTE RIVER NEAR OVERTON, NE

LOCATION.--Lat 40°40'57", long 99°32'19", in NW1/4NE1/4 sec.12, T.8 N., R.20 W., Dawson County, Hydrologic Unit 10200101, on left bank 600 ft (183 m) downstream from county highway bridge, 4 mi (6 km) south of Overton and 4 mi (6 km) downstream from Plum Creek. Prior to June 2, (north channel) gage at site 600 ft (183 m) upstream. South channel gage discontinued June 2, 1976.

DRAINAGE AREA (REVISED).--57,700 mi² (149,400 km²), approximately, of which about 52,900 mi² (137,000 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide basin is not included.

PERIOD OF RECORD.--July to September 1914 (gage heights only), October 1914 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "near Elm Creek" 1914-15.

REVISED RECORDS.--WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,298.83 ft (700.683 m) above mean sea level. July 1914 to October 1917 nonrecording gages at site 8 mi (13 km) downstream at different datum. June 1918 to Sept. 12, 1928, nonrecording gage at site 600 ft (180 m) upstream (south channel only) at datum 3.0 ft (0.91 m) higher. Sept. 13, 1928, to Sept. 30, 1930, nonrecording gage and Oct. 1, 1930, to Sept. 30, 1968, water-stage recorder, at site 600 ft (180 m) upstream (south channel only) at datum 1.0 ft (0.30 m) higher. Oct. 1, 1968 to Feb. 3, 1976 water-stage recorder on south channel at site 600 ft (180 m) upstream at datum 1.0 ft (0.30 m) higher, and Feb. 4 to June 2, 1976 (south channel gage discontinued) at present datum. Oct. 1, 1968, to July 10, 1974, north channel gage at site 600 ft (180 m) upstream at datum 1.0 ft (0.30 m) higher and July 11, 1974 to June 1, 1976 at same datum.

REMARKS.--Records fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. River flows in two channels for which separate records are computed; figures given herein represent combined discharge.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,600 ft³/s (1,060 m³/s) June 5, 1935, gage height, 6.25 ft (1.905 m) south channel; maximum gage height, 6.43 ft (1.960 m) May 15, 1973, north channel, datum then in use; no flow at times in 1919, 1922, 1925, 1927-28, 1930-41.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,860 ft³/s (81.0 m³/s) Apr. 11, gage height, 3.28 ft (1.000 m), north channel; maximum gage height, 3.45 ft (1.052 m) Feb. 5 (south channel), backwater from ice; minimum daily, 133 ft³/s (3.77 m³/s) Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	1340	1610	1680	2140	1760	1400	1880	431	427	218	188
2	1060	1240	1430	1350	2220	1690	1440	1560	413	372	223	281
3	1030	1340	1510	1400	2090	1550	1400	1620	300	360	227	366
4	1050	1360	1550	1500	2080	1770	1390	1450	316	408	235	480
5	1080	1020	1600	1600	2000	1680	1660	1370	327	414	257	494
6	1060	1380	1540	1750	1670	1610	1630	1030	349	414	262	467
7	1010	1360	1600	1900	1480	1670	1560	995	349	408	252	390
8	1060	1210	1600	2000	1540	1780	1630	889	354	360	244	502
9	991	1450	1730	1900	1620	1620	1840	788	355	316	252	690
10	1000	1360	1720	1750	1780	1820	2000	1040	330	286	252	734
11	1020	1400	1720	1650	1950	1800	2280	608	325	266	248	734
12	984	1360	1710	1600	2000	1810	1980	815	322	252	231	753
13	1010	1430	1630	1600	1970	1760	1950	616	305	257	235	800
14	975	1520	1590	1610	1900	1660	1800	658	290	252	223	698
15	1010	1500	1630	1610	1960	1720	1760	692	266	281	223	724
16	1060	1520	1470	1670	1940	1770	1690	681	257	276	218	865
17	1120	1560	1400	1690	1910	1870	1780	878	244	252	203	953
18	1150	1530	1330	1620	1800	1810	1570	842	218	252	196	1440
19	1100	1510	1240	1710	1710	1900	1660	784	199	244	174	1470
20	1190	1540	1290	1820	1680	1750	1940	720	192	171	165	1480
21	1180	1440	1360	1790	1700	1620	2050	686	188	244	158	1120
22	1200	1210	1380	1880	1740	1710	2080	682	188	305	152	986
23	1210	1240	1320	1870	1850	1700	1540	706	227	281	155	986
24	1200	1200	1280	1960	1730	1610	2000	802	327	300	168	975
25	1240	1320	1420	1780	1770	1630	1760	1020	630	295	168	1020
26	1210	1430	1490	1760	1760	1550	2020	1170	734	286	165	942
27	1280	1430	1440	1800	1700	1510	1640	1120	909	305	140	854
28	1310	1450	1530	1830	1740	1350	1690	1040	953	276	133	782
29	1260	1520	1520	1940	1640	1460	1630	808	810	252	135	753
30	1390	1540	1650	1850	---	1470	1640	568	591	248	135	681
31	1400	---	1700	2080	---	1340	---	486	---	244	140	---
TOTAL	34930	41710	46990	53950	53070	51750	52410	29004	11699	9304	6187	23608
MEAN	1127	1390	1516	1740	1830	1669	1747	936	390	300	200	787
MAX	1400	1560	1730	2080	2220	1900	2280	1880	953	427	262	1480
MIN	975	1020	1240	1350	1480	1340	1390	486	188	171	133	188
AC-FT	69280	82730	93200	107000	105300	102600	104000	57530	23200	18450	12270	46830
CAL YR 1975 TOTAL	444852			1219	MAX 4670	MIN 181	AC-FT 882400					
WTR YR 1976 TOTAL	414612			MEAN 1133	MAX 2280	MIN 133	AC-FT 822400					

PLATTE RIVER BASIN

06768000 PLATTE RIVER NEAR OVERTON, NE--Continued

PERIOD OF RECORD.--Water years 1952, 1958 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1958 to current year.

WATER TEMPERATURES: January 1958 to current year.

INSTRUMENTATION.-- Temperature recorder from April 5, 1967 to August 2, 1976 (discontinued).

REMARKS.--The south channel was dammed and water diverted into the north channel on about September 15, 1976 for the purposes of bridge construction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,480 micromhos May 15, 1966 (south chan.); minimum daily,

214 micromhos July 23, 1968 (south chan.).

WATER TEMPERATURES: Maximum, 37.0°C June 13, 1959 (south chan.), July 9, 1960 (north chan.); minimum, 0.0°C or many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,050 micromhos May 4 (south chan.); minimum daily, 285 micromhos July 21 (south chan.)

WATER TEMPERATURES: Maximum daily, 33.0°C July 12 (south chan.); minimum daily, 1.0°C on many days during winter period.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	HARDNESS (CA, MG) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DIS-SOLVED CALCIUM (CA) (MG/L) (00915)	DIS-SOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
20...	1130	1060	974	7.5	15.0	--	270	55	72	21
NOV										
17...	1215	1640	931	7.2	8.0	3	270	59	77	20
DEC										
16...	1405	1280	928	7.1	.0	5	300	69	82	22
JAN										
20...	1350	1640	803	7.6	1.0	5	280	66	76	21
FEB										
18...	1410	1860	792	6.8	4.0	3	270	61	78	19
MAR										
17...	1200	1880	748	7.1	7.0	6	250	49	69	20
APR										
13...	1525	1960	832	7.2	15.0	2	270	63	73	21
MAY										
19...	1105	968	1080	7.2	18.0	1	290	90	77	24
JUN										
14...	1425	216	888	7.2	18.0	2	280	90	71	25
JUL										
28...	1205	252	904	7.2	28.0	18	270	87	72	22
AUG										
18...	1130	204	942	7.2	26.0	3	260	58	66	22
SEP										
15...	1310	427	858	7.1	21.0	7	260	53	68	21

DATE	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	DIS-SOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CAC03 (MG/L) (00410)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS-SOLVED FLUORIDE (F) (MG/L) (00950)
OCT									
20...	70	1.9	14	257	0	211	190	23	.4
NOV									
17...	67	1.8	13	263	--	216	180	22	.5
DEC									
16...	71	1.8	14	276	0	226	180	23	.5
JAN									
20...	61	1.6	13	256	0	210	170	22	.6
FEB									
18...	60	1.6	12	258	0	212	170	21	.5
MAR									
17...	54	1.5	12	251	0	206	140	18	.5
APR									
13...	63	1.7	.2	251	0	206	170	23	.5
MAY									
19...	73	1.9	16	245	0	201	200	26	.5
JUN									
14...	80	2.1	14	232	0	190	220	28	.5
JUL									
28...	80	2.1	13	224	0	184	220	26	.5
AUG									
18...	79	2.2	15	241	0	198	200	27	.5
SEP									
15...	77	2.1	14	248	0	203	190	25	.5

06767998 PLATTE RIVER NEAR OVERTON, NE (NORTH CHANNEL)

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SILICA (SI02) (MG/L) (00955)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS-SOLVED PHOSPHORUS (P) (MG/L) (00666)	DIS-SOLVED BORON (B) (UG/L) (01020)	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED MANGANESE (MN) (UG/L) (01056)
OCT 20...	25	544	.74	1560	.47	.01	130	10	10
NOV 17...	32	545	.74	2410	.78	.07	170	30	20
DEC 16...	35	570	.78	1970	1.3	.03	110	0	60
JAN 20...	33	530	.72	2350	1.5	.08	100	0	20
FEB 18...	34	528	.72	2650	1.4	.05	90	10	10
MAR 17...	35	478	.65	2430	1.3	.06	90	10	30
APR 13...	30	509	.69	2690	.97	.04	110	--	--
MAY 19...	28	568	.77	1480	.46	.02	130	10	30
JUN 14...	27	581	.79	339	.13	.01	130	10	20
JUL 28...	27	573	.78	390	.49	.01	120	0	20
AUG 18...	28	557	.76	307	.16	.00	130	10	290
SEP 15...	27	546	.74	629	.35	.22	130	10	10

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	869	830	847	871	803	795	818	819	895	837	814	819
2	868	830	817	865	817	809	815	821	892	826	827	843
3	825	821	820	890	798	839	817	827	892	813	829	856
4	846	808	809	885	812	894	811	831	882	809	834	847
5	844	821	802	910	805	894	809	853	862	815	840	852
6	846	810	815	871	788	884	794	896	868	825	843	834
7	844	824	815	935	796	842	790	913	861	830	822	873
8	856	830	807	871	801	799	776	909	850	847	812	809
9	854	830	813	895	789	791	725	894	868	877	822	864
10	865	810	807	895	797	766	777	900	875	896	829	866
11	822	810	828	895	810	776	809	908	913	888	825	870
12	819	831	818	860	817	800	809	884	908	864	818	862
13	832	829	821	849	804	797	816	858	908	867	819	862
14	832	802	824	853	791	798	806	867	908	868	816	855
15	842	830	933	849	798	736	806	880	913	836	836	827
16	832	827	841	830	801	736	758	878	913	825	838	846
17	847	819	917	820	808	755	763	869	899	861	832	826
18	829	815	887	816	792	778	783	878	890	836	838	821
19	835	744	912	779	811	791	785	876	888	828	841	833
20	830	706	848	792	803	788	760	842	885	859	843	836
21	802	829	848	790	800	956	788	849	885	678	842	819
22	830	831	824	787	801	813	804	815	885	815	858	820
23	829	834	818	769	798	805	808	826	824	826	846	800
24	829	844	827	764	795	803	809	817	819	830	838	799
25	830	807	815	766	802	809	809	820	824	816	846	815
26	829	861	814	845	816	814	818	823	804	822	846	826
27	825	864	821	855	823	823	787	842	808	801	860	834
28	830	810	823	811	811	821	788	873	806	818	844	819
29	829	800	797	811	803	809	804	874	800	816	860	831
30	823	803	793	786	---	775	802	890	806	819	874	831
31	837	---	806	786	---	812	---	890	---	820	805	---
MONTH	836	817	831	839	803	810	795	862	868	831	835	837

PLATTE RIVER BASIN

06767998 PLATTE RIVER NEAR OVERTON, NE (NORTH CHANNEL)

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	12.0	1.0	1.0	2.5	5.0	13.0	17.0	21.0	23.0	21.0	21.0
2	15.0	11.0	1.0	1.0	2.5	4.0	14.0	12.0	22.0	24.0	26.0	26.0
3	14.0	12.0	1.0	1.0	4.0	3.0	13.0	12.0	21.0	25.0	26.0	25.0
4	16.0	11.0	2.0	1.0	2.0	3.0	15.0	19.0	20.0	21.0	23.0	24.0
5	15.0	11.0	4.0	1.0	1.0	2.0	11.0	21.0	20.0	28.0	25.0	25.0
6	15.0	13.0	3.0	1.0	2.0	2.0	12.0	17.0	21.0	28.0	20.0	26.0
7	16.0	12.0	1.0	1.0	2.0	3.0	13.0	19.0	21.0	24.0	27.0	21.0
8	15.0	11.0	4.0	1.0	3.0	2.0	12.0	20.0	27.0	29.0	30.0	21.0
9	14.0	10.0	4.0	1.0	3.0	7.0	10.0	15.0	28.0	27.0	23.0	23.0
10	14.0	7.0	5.0	1.0	4.0	11.0	17.0	16.0	24.0	24.0	24.0	23.0
11	15.0	8.0	3.0	1.0	4.5	7.0	18.0	23.0	28.0	27.0	28.0	26.0
12	15.0	5.0	2.0	1.0	5.0	2.0	18.0	20.0	25.0	30.0	30.0	23.0
13	15.0	5.0	4.0	2.0	4.5	1.0	20.0	13.0	24.0	29.0	29.0	20.0
14	16.0	6.0	3.0	1.0	4.0	4.0	21.0	23.0	22.0	27.0	28.0	20.0
15	13.0	6.0	1.0	2.0	4.5	5.0	18.0	22.0	15.0	25.0	27.0	25.0
16	13.0	5.0	2.0	1.0	4.5	6.0	14.0	21.0	18.0	28.0	27.0	21.0
17	12.0	9.0	1.0	3.0	4.5	9.0	13.0	24.0	20.0	27.0	30.0	21.0
18	12.0	11.0	1.0	2.0	4.0	13.0	16.0	20.0	21.0	30.0	23.0	25.0
19	11.0	4.0	1.0	2.0	3.5	14.0	16.0	21.0	27.0	30.0	29.0	20.0
20	13.0	2.5	1.0	2.0	3.0	9.0	15.0	20.0	20.0	25.0	28.0	15.0
21	14.0	1.0	1.0	2.0	3.5	8.0	18.0	21.0	20.0	23.0	26.0	23.0
22	13.0	2.0	4.0	2.0	4.0	8.0	19.0	20.0	27.0	29.0	22.0	24.0
23	12.0	3.0	5.0	2.0	4.5	14.0	17.0	17.0	20.0	25.0	28.0	19.0
24	10.0	1.0	4.0	2.0	5.0	10.0	14.0	14.0	19.0	27.0	30.0	20.0
25	6.0	1.0	3.0	2.0	6.0	16.0	17.0	16.0	20.0	29.0	27.0	17.0
26	5.0	1.0	3.0	1.0	6.5	11.0	11.0	14.0	22.0	28.0	21.0	19.0
27	9.0	1.0	4.0	1.0	6.0	11.0	9.0	15.0	26.0	31.0	26.0	14.0
28	10.0	1.0	3.0	2.0	5.5	11.0	8.0	25.0	24.0	30.0	28.0	19.0
29	12.0	1.0	4.0	3.0	5.5	7.0	10.0	21.0	26.0	30.0	20.0	11.0
30	11.0	1.0	5.0	4.0	---	8.0	10.0	19.0	21.0	31.0	20.0	22.0
31	14.0	---	4.0	5.0	---	13.0	---	20.0	---	26.0	25.0	---
MONTH	13.0	6.0	2.5	1.5	4.0	7.5	14.5	18.5	22.5	27.0	25.5	21.5

06767999 PLATTE RIVER NEAR OVERTON, NE (SOUTH CHANNEL)

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)
OCT										
20...	1245	316	851	7.4	15.0	5	230	45	58	20
NOV										
17...	1320	451	878	7.4	10.0	7	240	55	62	20
DEC										
16...	1515	367	904	7.2	.0	5	250	66	66	20
JAN										
20...	1500	373	1020	7.3	2.0	5	290	93	78	22
FEB										
18...	1320	319	972	6.9	5.0	7	300	110	84	23
MAR										
17...	1300	328	977	7.1	8.0	5	300	120	79	26
APR										
12...	1640	360	956	7.2	16.0	8	290	140	71	28
MAY										
19...	1210	298	1240	7.1	18.0	1	300	120	76	27
JUN										
14...	1530	35	948	7.2	17.0	2	290	110	74	25
JUL										
28...	1300	22	830	7.3	29.0	18	240	62	59	22

DATE	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)
OCT									
20...	78	2.3	11	222	0	182	190	22	.5
NOV									
17...	77	2.2	11	222	0	182	190	21	.5
DEC									
16...	77	2.1	11	221	0	181	210	22	.5
JAN									
20...	80	2.1	11	234	0	192	240	27	.6
FEB									
18...	85	2.1	11	240	0	197	260	29	.5
MAR									
17...	84	2.1	11	229	0	188	260	30	.5
APR									
12...	89	2.3	11	189	0	155	290	34	.5
MAY									
19...	94	2.4	10	221	0	181	270	32	.5
JUN									
14...	93	2.4	12	214	0	176	270	31	.6
JUL									
28...	84	2.4	12	214	0	176	210	26	.5

DATE	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER DAY) (MG/L) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (MG/L) (70302)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
OCT									
20...	20	511	.70	436	.50	.00	130	10	0
NOV									
17...	22	516	.70	628	.58	.03	150	0	10
DEC									
16...	25	543	.74	538	.52	.00	120	0	50
JAN									
20...	27	605	.82	609	.81	.00	140	0	0
FEB									
18...	27	643	.87	554	1.2	.01	140	20	10
MAR									
17...	28	637	.87	564	1.2	.01	130	0	20
APR									
12...	19	637	.87	619	.35	.02	150	0	10
MAY									
19...	22	641	.87	516	--	--	160	10	540
JUN									
14...	19	634	.86	60.1	.83	.00	140	80	20
JUL									
28...	25	547	.74	33.8	.57	.00	120	10	50

06767999 PLATTE RIVER NEAR OVERTON, NE (SOUTH CHANNEL)

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	857	790	817	870	946	939	970	1020	953	934	890	866
2	830	789	830	863	942	947	962	1020	976	876	865	808
3	867	799	829	867	950	955	962	1020	947	911	858	852
4	827	796	834	870	953	952	965	1050	950	908	875	818
5	823	796	838	842	947	958	959	1030	950	881	887	798
6	821	795	834	847	960	961	965	1030	955	858	898	811
7	824	802	832	877	958	960	970	1020	959	895	840	843
8	820	801	840	886	963	963	968	1020	950	876	833	826
9	824	802	840	856	970	958	968	1020	939	886	875	831
10	822	800	844	869	949	968	973	1010	947	895	877	810
11	854	798	844	857	961	955	962	1020	948	892	853	799
12	848	803	842	871	972	955	956	1020	950	862	816	832
13	820	802	838	873	976	952	970	1000	953	864	816	832
14	820	831	840	879	969	963	979	1020	953	888	822	834
15	819	805	838	889	974	951	979	1010	953	885	836	819
16	817	804	838	875	986	957	959	1010	942	883	837	807
17	813	803	867	897	980	974	956	1010	936	853	826	807
18	815	800	836	900	972	971	979	1010	936	848	858	792
19	817	727	840	892	968	974	979	1010	925	842	827	812
20	815	686	840	904	976	974	985	886	939	876	797	807
21	819	796	840	917	971	974	994	884	939	285	791	787
22	817	794	844	917	960	808	1000	956	911	837	836	797
23	813	791	850	915	954	977	997	991	936	896	804	791
24	813	804	848	925	961	982	1010	991	936	906	807	789
25	805	794	844	923	957	977	1000	988	936	869	780	816
26	811	785	838	931	955	980	991	976	939	869	831	822
27	802	819	851	917	956	977	1000	976	923	860	849	822
28	805	803	855	928	944	980	994	988	931	856	858	798
29	807	807	855	933	950	977	994	982	926	844	849	819
30	807	810	844	936	---	974	994	964	934	851	851	789
31	805	---	846	953	---	974	---	964	---	869	794	---
MONTH	821	794	841	893	961	960	978	997	942	857	840	814

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	12.0	1.0	1.0	2.5	6.0	14.0	18.0	21.0	26.0	21.0	22.0
2	15.0	11.0	1.0	1.0	2.5	6.0	12.0	11.0	20.0	24.0	23.0	26.0
3	14.0	12.0	1.0	1.0	4.0	4.0	12.0	13.0	20.0	26.0	26.0	28.0
4	16.0	11.0	2.0	1.0	2.0	4.0	13.0	19.0	21.0	21.0	24.0	27.0
5	15.0	11.0	4.0	1.0	1.0	4.0	12.0	19.0	20.0	28.0	24.0	28.0
6	15.0	13.0	3.0	1.0	2.0	6.0	12.0	17.0	22.0	28.0	20.0	29.0
7	16.0	12.0	1.0	1.0	2.0	6.0	12.0	19.0	22.0	23.0	29.0	21.0
8	15.0	11.0	4.0	1.0	4.0	7.0	11.0	19.0	27.0	31.0	29.0	22.0
9	14.0	10.0	4.0	1.0	5.0	9.0	11.0	16.0	29.0	30.0	23.0	25.0
10	14.0	7.0	5.0	1.0	4.0	10.0	18.0	16.0	23.0	24.0	25.0	25.0
11	15.0	8.0	3.0	1.0	4.5	7.0	17.0	23.0	29.0	28.0	27.0	26.0
12	15.0	5.0	2.0	1.0	5.0	5.0	17.0	20.0	26.0	33.0	32.0	24.0
13	15.0	5.0	4.0	2.0	4.0	4.0	18.0	14.0	25.0	32.0	30.0	20.0
14	16.0	6.0	3.0	1.0	4.0	7.0	20.0	23.0	22.0	27.0	27.0	20.0
15	13.0	6.0	1.0	2.0	4.5	6.0	19.0	20.0	15.0	26.0	24.0	26.0
16	13.0	5.0	2.0	1.0	4.5	7.0	16.0	20.0	19.0	27.0	24.0	22.0
17	12.0	9.0	1.0	3.0	4.5	9.0	16.0	23.0	20.0	31.0	31.0	23.0
18	12.0	11.0	1.0	2.0	4.5	12.0	17.0	19.0	21.0	31.0	23.0	26.0
19	11.0	4.0	1.0	2.0	4.0	11.0	17.0	20.0	28.0	31.0	30.0	20.0
20	13.0	2.5	1.0	2.0	3.5	8.0	16.0	20.0	20.0	25.0	28.0	17.0
21	14.0	1.0	1.0	2.0	3.0	8.0	18.0	21.0	20.0	23.0	30.0	23.0
22	13.0	2.0	4.0	2.0	4.0	8.0	19.0	21.0	29.0	31.0	22.0	24.0
23	12.0	3.0	5.0	2.0	4.0	14.0	18.0	16.0	21.0	25.0	26.0	20.0
24	10.0	1.0	4.0	2.0	4.5	10.0	15.0	15.0	19.0	27.0	31.0	21.0
25	6.0	1.0	3.0	2.0	5.0	14.0	17.0	17.0	21.0	30.0	29.0	18.0
26	5.0	1.0	3.0	1.0	7.0	12.0	12.0	14.0	24.0	29.0	21.0	20.0
27	9.0	1.0	4.0	1.0	6.5	14.0	10.0	16.0	29.0	32.0	25.0	15.0
28	10.0	1.0	3.0	2.0	6.5	11.0	10.0	25.0	24.0	31.0	26.0	20.0
29	12.0	1.0	4.0	3.0	6.0	6.0	11.0	21.0	27.0	31.0	21.0	13.0
30	11.0	1.0	5.0	4.0	---	8.0	11.0	19.0	23.0	32.0	21.0	22.0
31	14.0	---	4.0	5.0	---	12.0	---	22.0	---	27.0	25.0	---
MONTH	13.0	6.0	2.5	1.5	4.0	8.0	14.5	18.5	23.0	28.0	25.5	22.5

PLATTE RIVER BASIN

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06768015 SPRING CREEK BELOW LEXINGTON, NE

LOCATION.--Lat 40°45'13", long 99°40'22", in NW1/4SW1/4NW1/4 sec.13, T.9 N., R.21 W., Dawson County, Hydrologic Unit 10200101, at bridge on county road 0.5 mi (0.8 km) south of U.S. Highway 30, 0.1 mi (0.2 km) downstream from Dawson County Drain No. 1, and 3.2 mi (5.1 km) southeast of Lexington.

PERIOD OF RECORD.--Water year 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
OCT 15...	1445	2.0	1400	8.0	14.0	5	17.0	--	7600	680	49
DEC 23...	1200	2.0	1900	7.7	1.0	15	8.4	13	20000	1600	130
JAN 19...	1030	2.8	780	7.4	1.0	25	7.4	27	5000	7400	36
FEB 18...	1345	7.3	1040	7.6	6.0	10	12.1	--	750	260	51
MAR 17...	1315	6.3	1300	8.0	10.0	12	11.7	4.5	260	340	43
APR 27...	1245	15	1450	7.4	10.0	40	8.2	--	17000	17000	83
MAY 25...	1245	37	1000	7.7	14.0	55	8.6	6.5	120000	30000	26
JUN 22...	1300	11	1500	7.7	23.0	20	6.4	7.0	236000	2500	53
JUL 20...	1400	34	1300	7.9	23.0	140	6.4	12	67000	3600	42
AUG 17...	1230	50	980	7.9	23.0	85	6.6	12	17000	3100	24
SEP 28...	1315	23	1100	8.2	11.0	40	9.8	19	--	2700	38

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	DISSOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRATE PLUS NITRITE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DISSOLVED PHOSPHORUS (P) (MG/L) (00666)
OCT 15...	--	1.06	4.20	.68	.12	1.4	1.5	2.2	.53	.53
DEC 23...	972	1.32	5.25	4.4	3.8	4.4	8.2	13	5.3	5.3
JAN 19...	--	.62	3.45	1.9	.96	2.9	3.9	5.8	.81	.81
FEB 18...	672	.91	13.2	1.3	.48	1.8	2.3	3.6	.91	.91
MAR 17...	749	1.02	12.7	.98	.70	1.3	2.0	3.0	1.0	.64
APR 27...	868	1.18	35.2	7.0	1.1	6.7	7.8	15	3.8	3.1
MAY 25...	--	.73	53.5	.71	.13	1.8	1.9	2.6	.49	.28
JUN 22...	888	1.21	26.4	3.3	.05	1.3	1.3	4.6	2.0	.60
JUL 20...	--	.95	63.8	1.6	.16	.19	.35	2.0	1.1	.71
AUG 17...	575	.78	77.6	.75	.03	1.2	1.2	2.0	.47	.20
SEP 28...	583	.79	36.2	.99	.28	.92	1.2	2.2	.68	.28

PLATTE RIVER BASIN

06768015 SPRING CREEK BELOW LEXINGTON, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
OCT 15...	1445	18	420	110	120	30	74	1.6	35	383
JAN 19...	1030	50	210	32	60	14	60	1.8	28	214
MAY 25...	1245	23	280	61	77	22	62	1.6	22	270
JUL 20...	1400	35	310	68	88	23	99	2.4	18	301

DATE	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
OCT 15...	0	314	240	.5	40	778	--	160	--	--
JAN 19...	0	176	130	.3	22	456	6	180	4	0
MAY 25...	0	221	160	.4	33	536	--	130	--	--
JUL 20...	0	247	240	.6	36	695	14	160	1	0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
OCT 15...	--	20	--	20	--	--	--	--	--	--
JAN 19...	15	160	50	90	.2	.0	.2	2	0	70
MAY 25...	--	40	--	10	--	--	--	--	--	--
JUL 20...	1	20	9	10	.1	.1	.0	2	0	20

PLATTE RIVER BASIN

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06770000 PLATTE RIVER NEAR ODESSA, NE

LOCATION.--Lat 40°39'55", long 99°15'20", in E1/2 sec.16, T.8 N., R.17 W., Buffalo-Phelps County line, Hydrologic Unit 10200101, near right bank on downstream side of pier of highway bridge, 2.5 mi (4.0 km) south of Odessa and 5 mi (8 km) downstream from Elm Creek.

DRAINAGE AREA (REVISED).--58,100 mi² (150,500 km²), approximately, of which about 53,300 mi² (138,000 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide basin is not included.

PERIOD OF RECORD.--March 1937 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,197.07 ft (669.667 m) above mean sea level. Prior to Oct. 7, 1938, nonrecording gage and Oct. 7, 1938, to Sept. 30, 1942, water-stage recorder, at present site at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,700 ft³/s (643 m³/s) June 24, 1947, gage height, 5.52 ft (1.682 m); maximum gage height, 5.89 ft (1.795 m) Mar. 5, 1952, backwater from ice; no flow for periods in each year prior to 1947 and in 1953-57, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 2,370 ft³/s (67.1 m³/s) Feb. 16, gage height, 2.47 ft (0.753 m); maximum gage height, 4.44 ft (1.353 m) Jan. 3, backwater from ice; minimum daily discharge, 9.0 ft³/s (0.25 m³/s) Aug. 27, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	580	950	1300	1380	1840	1740	1170	1320	486	524	146	30
2	608	790	1350	998	1840	1740	1200	1450	402	390	146	36
3	580	762	1250	1000	1810	1540	1240	1280	354	250	146	30
4	734	762	1300	1100	1510	1450	1400	1380	306	230	138	30
5	748	734	1350	1200	1560	1250	1320	1200	250	250	130	48
6	720	636	1300	1300	1510	1250	1410	1010	240	260	130	78
7	552	838	1350	1500	1280	1320	1340	918	240	230	122	54
8	524	886	1400	1600	1430	1650	1320	840	146	210	106	154
9	552	982	1450	1500	1470	1580	1340	740	138	180	84	220
10	580	982	1490	1400	1540	1670	1400	660	138	154	78	486
11	566	982	1510	1350	1600	1720	1600	636	122	138	72	566
12	580	950	1560	1350	1840	1840	1490	678	98	130	66	580
13	608	934	1560	1350	1900	1670	1510	706	106	106	54	580
14	608	1030	1360	1350	1860	1740	1430	622	98	84	54	608
15	608	1030	1360	1350	1860	1880	1400	498	84	54	60	524
16	650	998	1580	1350	1950	1950	1670	594	72	42	60	566
17	636	1010	1150	1350	2000	1880	1470	524	66	36	48	650
18	748	1060	934	1450	1900	1770	1410	622	60	42	36	918
19	720	1000	1060	1450	1840	1670	1240	580	48	30	30	1280
20	720	1000	1090	1500	1740	1580	1400	510	42	26	30	1320
21	720	1000	1150	1500	1650	1490	1540	585	36	54	26	1220
22	664	980	1150	1550	1630	1410	1490	1340	26	998	22	762
23	748	940	1090	1600	1720	1580	1450	966	62	942	22	622
24	790	900	1200	1700	1740	1490	1080	920	78	390	12	706
25	870	990	1050	1700	1700	1480	1380	880	295	250	22	806
26	734	1140	1090	1600	1650	1280	1090	840	748	162	15	776
27	678	1170	1050	1650	1580	1260	1450	822	838	162	9.0	636
28	706	1170	1200	1700	1670	1200	1360	950	1090	162	12	486
29	776	1200	1200	1880	1670	1320	1360	886	1030	162	15	426
30	806	1250	1220	1860	---	1240	1200	678	838	154	9.0	402
31	918	---	1280	1860	---	1190	---	566	---	154	15	---
TOTAL	21032	29056	39384	45428	49290	47830	41160	26201	8537	6956	1915.0	15600
MEAN	678	969	1270	1465	1700	1543	1372	845	285	224	61.8	520
MAX	918	1250	1580	1880	2000	1950	1670	1450	1090	998	146	1320
MIN	524	636	934	998	1280	1190	1080	498	26	26	9.0	30
AC-FT	41720	57630	78120	90110	97770	94870	81640	51970	16930	13800	3800	30940
CAL YR 1975	TOTAL	363412.0	MEAN	996	MAX	4100	MIN	24	AC-FT	720800		
WTR YR 1976	TOTAL	332389.0	MEAN	908	MAX	2000	MIN	9.0	AC-FT	659300		

PLATTE RIVER BASIN

06770205 PLATTE RIVER (NORTH CHANNEL) NEAR KEARNEY, NE

LOCATION.--Lat 40°40'30", long 99°00'24", in SW1/4NW1/4SW1/4 sec.10, T.8 N., R.15 W., Buffalo County, Hydrologic Unit 10200101, on county road 0.2 mi (0.3 km) north of Interstate Highway I-80 (no access) and about 4.5 mi (7.2 km) southeast of Kearney.

PERIOD OF RECORD.--Water year 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPECIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN 5 DAY DEMAND (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT											
15...	1000	227	940	8.0	14.0	20	10.0	20	13000	580	25
NOV											
25...	1100	16	1100	7.7	2.0	2	10.0	10	660	--	44
DEC											
23...	0930	13	1300	7.3	4.0	5	8.2	36	110000	1800	52
JAN											
19...	1245	12	1070	7.6	5.0	5	10.3	15	6800	1400	59
FEB											
18...	1045	15	1300	7.6	5.0	10	10.1	12	16000	1600	58
MAR											
17...	0945	12	1150	7.6	6.0	3	9.4	8.8	1400	710	65
APR											
27...	0945	114	900	7.7	10.0	20	8.8	15	5000	2400	31
MAY											
25...	1000	97	800	7.5	13.0	95	8.0	9.8	34000	2800	--
JUN											
22...	0930	123	1100	8.2	21.0	35	7.8	2.7	182000	1300	33
JUL											
20...	1115	119	950	7.9	26.0	30	7.8	15	54000	1200	30
AUG											
17...	1000	124	980	7.9	23.0	30	7.4	1.8	43000	1800	30
SEP											
28...	1000	310	900	8.2	12.0	25	9.4	9.8	4000	420	25

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT										
15...	--	.75	339	.30	.08	.40	.48	.78	.08	.08
NOV										
25...	627	.85	27.1	1.5	1.2	2.5	3.7	5.2	1.1	1.0
DEC										
23...	701	.95	24.6	2.0	1.4	1.6	3.0	5.0	1.4	1.4
JAN										
19...	--	.93	22.2	2.5	1.4	.50	1.9	4.4	1.6	1.6
FEB										
18...	754	1.03	30.5	1.8	1.1	2.0	3.1	4.9	1.5	1.1
MAR										
17...	772	1.05	25.0	2.1	3.3	1.3	4.6	6.7	1.7	1.3
APR										
27...	586	.80	180	1.3	.09	1.1	1.2	2.5	.33	.29
MAY										
25...	--	--	--	.74	.30	1.8	2.1	2.8	.87	.61
JUN										
22...	632	.86	210	.51	.02	.88	.90	1.4	.31	.24
JUL										
20...	--	.76	180	.25	.00	.71	.71	.96	.36	.19
AUG										
17...	594	.81	199	.60	.00	.29	.29	.89	.30	.20
SEP										
28...	543	.74	454	.67	--	--	.75	1.4	.22	.18

PLATTE RIVER BASIN

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06770205 PLATTE RIVER (NORTH CHANNEL) NEAR KEARNEY, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
OCT 15...	1000	8	250	63	65	22	80	2.2	13	231
JAN 19...	1245	20	320	98	87	24	97	2.4	15	242
MAY 25...	1000	49	220	71	60	17	53	1.6	14	182
JUL 20...	1115	18	240	67	60	23	88	2.5	14	216

DATE	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINIT AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (MG/L) (01000)	DIS- SOLVED BORON (B) (MG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (MG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (MG/L) (01030)
OCT 15...	0	189	210	.6	23	553	--	130	--	--
JAN 19...	12	218	250	.5	22	686	2	170	2	0
MAY 25...	0	149	--	.3	--	--	--	30	--	--
JUL 20...	0	177	210	.6	27	559	7	140	1	0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
OCT 15...	--	0	--	20	--	--	--	--	--	--
JAN 19...	7	30	4	150	.0	.0	.0	1	0	60
MAY 25...	--	70	--	20	--	--	--	--	--	--
JUL 20...	2	30	7	10	.0	.0	.0	1	0	20

PLATTE RIVER BASIN

06770500 PLATTE RIVER NEAR GRAND ISLAND, NE

LOCATION.--Lat 40°52'28", long 98°16'54", in SW1/4SW1/4 sec.31, T.11 N., R.8 W., Merrick County, Hydrologic Unit 10200101, on left bank 118 ft (36 m) downstream from bridge on U.S. Highway 34, 2 mi (3 km) upstream from Burlington Northern Inc. bridge, and 5 mi (8 km) southeast of Grand Island.

DRAINAGE AREA (REVISED).--58,800 mi² (152,300 km²), approximately, of which about 54,000 mi² (139,900 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide basin is not included.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to current year.

REVISED RECORDS.--WSP 956: 1935. WSP 1390: 1942. WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,831.89 ft (558.360 m) above mean sea level (Nebraska Department of Highways bench mark). Prior to Oct. 23, 1933, nonrecording gage at bridge 30 ft (9 m) upstream at present datum.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft³/s (850 m³/s) June 6, 1935, gage height, 5.99 ft (1.826 m), from rating curve extended above 18,000 ft³/s (510 m³/s); maximum gage height, 6.16 ft (1.878 m) Mar. 27, 1960, backwater from ice; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,300 ft³/s (122 m³/s) Feb. 12, gage height, 3.30 ft (1.006 m); maximum gage height, 4.21 ft (1.283 m) Feb. 12, backwater from ice; no flow Aug. 18 to Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	848	886	860	1500	1500	1690	1790	1450	886	648	112	0
2	725	897	1100	1300	1400	1500	1600	1430	850	467	104	0
3	663	911	1300	1100	1350	1350	1460	1560	749	410	96	0
4	583	921	1400	900	1250	1200	1420	1490	636	339	85	0
5	591	939	1200	1000	1140	1000	1370	1490	547	303	68	0
6	590	949	1140	860	1060	1300	1410	1360	445	296	55	0
7	589	855	1700	700	1140	1250	1620	1240	395	274	41	0
8	614	870	2100	760	1300	1400	1590	1100	368	247	29	0
9	595	1050	2200	900	1450	1700	1670	1020	352	218	26	0
10	641	1070	2300	1000	1600	2300	1630	910	319	192	20	0
11	640	1160	2200	1100	2100	1900	1620	862	289	156	11	0
12	621	1060	2100	1160	2800	1830	1700	984	279	116	5.1	0
13	641	1080	2150	1220	3940	1890	1830	890	236	73	2.1	0
14	636	950	1800	1240	3190	1840	1780	932	205	45	2.4	9.8
15	632	1020	1500	1350	2850	1850	1760	859	165	26	2.4	47
16	631	1220	1400	1400	2420	1900	2000	754	126	16	1.1	84
17	637	1160	900	1450	2160	1930	2040	646	101	7.0	.12	121
18	686	1060	1100	1450	2080	1770	1830	544	95	4.7	0	226
19	713	1200	1500	1550	2050	1830	1660	548	89	3.1	0	290
20	763	1140	1400	1550	1990	1750	1480	523	83	1.8	0	359
21	763	1100	1550	1500	1900	1810	1500	487	72	1.9	0	687
22	810	1000	1500	1500	1960	1800	1680	830	56	22	0	1070
23	840	960	1550	1550	1890	1660	1770	1530	83	25	0	1000
24	833	920	1600	1550	1810	1800	1880	1630	192	41	0	813
25	858	860	1500	1500	1840	2060	1670	1410	232	110	0	832
26	861	760	1550	1500	1830	1860	1680	1290	192	107	0	832
27	853	840	1600	1450	1840	1820	1620	1210	184	94	0	805
28	850	960	1650	1500	1820	1820	1600	1180	319	95	0	760
29	881	1040	1550	1600	1700	2000	1590	1140	568	113	0	719
30	853	900	1700	1550	---	2030	1510	1130	740	124	0	661
31	861	---	1650	1500	---	1950	---	1040	---	119	0	---
TOTAL	22302	29738	48750	40190	55360	53790	49760	33469	9853	4694.5	660.22	9315.8
MEAN	719	991	1573	1296	1909	1735	1659	1080	328	151	21.3	311
MAX	881	1220	2300	1600	3940	2300	2040	1630	886	648	112	1070
MIN	583	760	860	700	1060	1000	1370	487	56	1.8	0	0
AC-FT	44240	58990	96700	79720	109800	106700	98700	66390	19540	9310	1310	18480
CAL YR 1975	TOTAL	414970.00	MEAN	1137	MAX	5300	MIN	5.7	AC-FT	823100		
WTR YR 1976	TOTAL	357882.52	MEAN	978	MAX	3940	MIN	0	AC-FT	709900		

PLATTE RIVER BASIN

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06770500 PLATTE RIVER NEAR GRAND ISLAND, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,040 micromhos April 12, 1973; minimum daily, 627 micromhos July 23, 1975.

WATER TEMPERATURES: Maximum, 34.5°C July 23, 1972; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,020 micromhos May 20; minimum daily, 661 micromhos Aug. 14.

WATER TEMPERATURES: Maximum, 22.5°C June 29; minimum, 0.0°C Jan. 2, 3, 5.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)
OCT										
02...	1000	679	790	8.1	11.0	6	30	12.8	--	87
NOV										
11...	0955	1120	744	8.1	6.5	5	25	12.3	5.9	50
DEC										
11...	1050	2180	705	7.7	.0	10	15	14.2	8.8	28
JAN										
20...	1050	1540	788	7.7	.0	5	5	11.6	17	12
FEB										
11...	1045	2170	796	7.7	.0	3	15	12.2	6.5	23
MAR										
03...	1010	1260	826	7.9	.0	5	20	13.2	5.2	12
APR										
28...	1015	1500	873	8.3	7.0	20	20	10.5	14	44
MAY										
05...	0915	1430	872	8.3	14.5	1	20	9.1	4.6	19
JUN										
10...	1120	347	876	8.2	27.5	15	25	7.6	8.2	97
JUL										
22...	1010	26	717	8.3	27.5	7	10	8.5	18	670
SEP										
23...	1010	965	773	8.3	16.0	7	30	9.1	8.0	110

DATE	STREP- TOCOCI (COL- ONIES PER 100 ML) (31679)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)
OCT										
02...	120	250	72	65	22	83	2.3	12	221	0
NOV										
11...	64	240	55	63	20	74	2.1	11	225	0
DEC										
11...	164	240	71	64	20	69	1.9	10	209	0
JAN										
20...	45	270	82	74	21	75	2.0	11	231	0
FEB										
11...	32	270	87	73	21	73	1.9	11	221	0
MAR										
03...	60	300	97	80	24	79	2.0	11	246	0
APR										
28...	200	300	120	77	27	83	2.1	11	222	0
MAY										
05...	132	300	110	76	26	87	2.2	12	225	0
JUN										
10...	240	290	110	72	26	90	2.3	15	220	0
JUL										
22...	1100	250	90	63	23	84	2.3	13	198	0
SEP										
23...	500	230	55	59	21	87	2.5	13	218	0

PLATTE RIVER BASIN

06770500 PLATTE RIVER NEAR GRAND ISLAND, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ALKALINITY AS CACO ₃ (MG/L) (00410)	DIS- SOLVED SULFATE (SO ₄) (MG/L) (00945)	DIS- SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUORIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SiO ₂) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)
OCT 02...	181	210	24	.5	20	546	.74	1000	.14	.05
NOV 11...	185	180	22	.5	21	503	.68	1520	.29	.04
DEC 11...	171	180	23	.5	23	493	.67	2900	.59	.05
JAN 20...	189	220	25	.6	24	565	.77	2350	.82	.04
FEB 11...	181	210	25	.5	24	547	.74	3210	1.0	.05
MAR 03...	202	240	29	.5	29	614	.84	2090	.92	.11
APR 28...	182	240	31	.5	20	599	.81	2430	.58	.00
MAY 05...	185	280	33	.6	19	645	.88	2490	.59	.02
JUN 10...	180	270	33	.5	21	636	.87	596	.07	.01
JUL 22...	162	230	33	.5	21	565	.77	39.7	.00	.00
SEP 23...	179	200	26	.6	24	538	.73	1400	.14	.00

DATE	TOTAL ORGANIC NITROGEN (N) (00605)	TOTAL KJEL- DAHL NITROGEN (N) (00625)	TOTAL NITROGEN (N) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DIS- SOLVED PHOSPHORUS (P) (MG/L) (00666)	DIS- SOLVED ALUMINUM (AL) (UG/L) (01106)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANGANESE (MN) (UG/L) (01056)	DIS- SOLVED VANADIUM (V) (UG/L) (01085)
OCT 02...	1.1	1.1	1.2	.14	.03	20	130	10	10	7.1
NOV 11...	1.9	1.9	2.2	.12	.08	30	130	0	10	4.7
DEC 11...	.25	.30	.89	.12	.07	20	180	20	0	4.2
JAN 20...	.60	.64	1.5	.07	.04	0	120	0	0	4.2
FEB 11...	.62	.67	1.7	.12	.08	10	120	10	0	4.3
MAR 03...	.77	.88	1.8	.12	.05	0	130	30	10	5.0
APR 28...	.80	.80	1.4	.12	.03	0	140	20	10	3.7
MAY 05...	1.2	1.2	1.8	.14	.04	10	250	10	0	.8
JUN 10...	.72	.73	.80	.19	.19	20	130	10	0	5.2
JUL 22...	.82	.82	.82	.15	.03	10	140	0	20	1.5
SEP 23...	1.2	1.2	1.3	.17	.02	40	150	10	20	7.1

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED CADMIUM (CD) (UG/L) (01025)	DIS- SOLVED CHROMIUM (CR) (UG/L) (01030)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDED MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELENIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
JAN 20...	1050	3	0	0	1	2	.0	.0	.0	2	0	10
JUL 22...	1010	3	1	0	1	2	.0	.0	.0	1	0	0

06770500 PLATTE RIVER NEAR GRAND ISLAND, NE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	837	840	842	988	846	920	938	930	976	893	908	---
2	850	831	830	994	832	913	943	965	917	868	874	---
3	865	825	846	991	809	985	956	976	953	874	872	---
4	863	823	846	988	814	893	954	979	950	871	888	---
5	870	828	841	991	806	985	945	976	953	885	893	---
6	870	824	826	994	806	970	948	994	947	897	824	---
7	876	822	822	991	804	991	885	994	953	886	900	---
8	867	855	788	997	816	913	920	985	950	903	900	---
9	870	823	820	844	809	884	920	994	958	910	853	---
10	871	795	791	994	804	906	932	994	958	928	895	---
11	859	825	789	962	796	908	938	994	964	930	900	---
12	861	825	787	878	808	913	925	964	976	935	913	---
13	863	825	822	882	807	934	922	967	978	938	906	893
14	866	825	898	882	853	911	927	967	988	946	661	881
15	853	823	898	962	853	934	938	994	1000	935	891	893
16	856	821	895	878	908	929	897	994	988	941	903	886
17	854	823	895	962	852	932	876	1010	994	941	918	828
18	850	820	900	880	911	929	888	1000	985	941	903	824
19	850	826	902	850	918	926	917	1000	982	952	911	817
20	846	827	872	873	915	934	924	1020	976	954	---	854
21	842	828	895	850	918	942	924	1000	994	941	---	861
22	844	830	902	864	926	937	920	839	994	850	---	843
23	838	856	879	859	913	940	938	805	912	905	---	836
24	822	872	875	855	905	950	935	669	785	901	---	850
25	843	897	877	864	915	950	907	798	861	814	---	800
26	845	897	835	864	910	959	943	860	933	860	---	821
27	839	895	835	864	913	953	954	897	947	875	---	825
28	839	883	835	862	913	962	943	930	961	812	---	838
29	835	863	835	862	921	911	927	940	915	764	---	841
30	833	895	835	862	---	867	922	959	897	828	---	846
31	837	---	835	862	---	921	---	962	---	822	---	---
MONTH	852	841	850	911	862	932	927	947	952	894	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	10.5	2.0	1.0	2.5	5.0	9.5	10.0	19.5	20.5	19.5	---
2	12.0	10.5	2.5	0.0	1.5	4.0	10.0	12.0	20.0	20.0	19.0	---
3	12.0	13.0	3.5	0.0	2.0	2.0	9.0	10.0	20.0	19.5	17.0	---
4	13.0	11.0	2.5	1.0	1.5	1.0	9.5	12.0	18.0	19.0	19.0	---
5	13.5	11.5	2.5	0.0	1.5	0.0	10.0	14.0	20.0	18.5	20.5	---
6	13.5	12.5	3.5	1.0	2.0	0.0	13.0	11.5	19.0	19.5	18.5	---
7	14.0	11.5	5.0	1.0	2.5	2.0	12.0	11.0	19.5	21.0	18.0	---
8	13.5	11.0	3.5	1.0	4.5	3.0	12.5	13.0	19.0	20.0	18.0	---
9	12.0	10.0	3.5	1.0	2.0	2.0	12.0	14.0	20.0	19.5	21.0	---
10	13.5	6.0	3.0	2.0	2.0	6.0	11.5	14.5	21.0	21.0	21.0	---
11	12.0	7.0	4.5	2.0	2.5	5.0	13.5	15.5	21.5	21.5	21.5	---
12	16.0	4.0	3.0	1.5	2.5	3.0	11.5	16.5	21.0	22.0	20.5	---
13	17.0	3.5	3.5	1.5	4.5	2.0	13.5	14.0	19.0	22.0	21.0	19.0
14	14.5	3.0	2.5	1.5	4.5	3.5	16.0	12.5	20.0	21.5	19.5	17.0
15	11.0	5.5	2.5	2.0	5.0	3.5	17.0	16.0	14.0	21.0	21.0	19.0
16	11.0	5.5	2.0	2.0	3.5	5.0	15.0	13.5	15.0	17.0	20.0	17.5
17	10.5	7.0	1.5	2.5	4.0	6.0	13.5	13.0	17.0	19.0	19.5	16.5
18	10.0	11.0	2.0	3.0	8.5	8.0	14.0	13.5	14.0	19.5	20.5	17.0
19	10.0	10.5	4.0	2.0	7.5	9.0	13.5	14.5	13.0	21.0	20.5	20.5
20	11.0	7.0	2.5	2.0	11.0	8.0	15.0	16.5	15.5	21.0	---	14.0
21	12.0	3.0	3.0	2.5	7.0	6.5	10.0	16.0	16.5	21.5	---	15.0
22	12.0	2.0	2.0	2.0	6.0	7.0	14.0	18.0	17.5	22.0	---	16.5
23	12.5	2.0	2.0	2.0	6.0	7.0	15.5	16.0	19.5	21.5	---	16.0
24	8.5	2.0	2.5	2.0	7.5	9.0	15.0	13.5	17.0	21.5	---	15.0
25	6.0	3.0	3.0	2.5	6.5	10.0	10.0	14.5	18.0	20.5	---	16.0
26	6.5	2.0	3.0	2.0	11.0	7.0	12.5	14.5	18.5	22.0	---	15.5
27	8.0	2.0	3.0	2.0	7.5	7.0	10.0	15.0	17.5	22.0	---	13.0
28	7.5	2.0	3.0	2.0	7.0	9.0	9.0	15.0	22.0	21.0	---	10.0
29	7.0	3.0	2.5	2.0	7.0	9.5	9.0	19.0	22.5	21.5	---	10.5
30	7.5	1.5	2.5	2.0	---	4.0	9.5	18.5	19.5	22.0	---	13.0
31	11.0	---	3.0	2.0	---	7.0	---	18.0	---	21.0	---	---
MONTH	11.5	6.5	3.0	1.5	5.0	5.0	12.0	14.5	18.5	20.5	---	---

PLATTE RIVER BASIN

06771500 WOOD RIVER NEAR GIBBON, NE

LOCATION.--Lat 40°46'17", long 98°47'51", in NW1/4NW1/4 sec.9, T.9 N., R.13 W., Buffalo County, Hydrologic Unit 10200102, Buffalo County, on left bank 10 ft (3 m) downstream from bridge on county highway and 2.5 mi (4.0 km) northeast of Gibbon.

DRAINAGE AREA.--572 mi² (1,481 km²).

PERIOD OF RECORD.--April 1949 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 2,024.88 ft (617.183 m) above mean sea level. Prior to July 26, 1949, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter period, which are poor. Numerous small diversions for irrigation above station. Periodic temperature and conductance measurements are published in tables for water quality at miscellaneous sites.

AVERAGE DISCHARGE.--27 years, 13.3 ft³/s (0.377 m³/s), 9,640 acre-ft/yr (11.9 hm³/yr); median of yearly mean discharges, 8.3 ft³/s (0.235 m³/s), 6,000 acre-ft/yr (7.40 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,050 ft³/s (115 m³/s) June 15, 1967, gage height, 16.79 ft (5.118 m); no flow for many days in 1952-62, 1964-76.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 68 ft³/s (1.93 m³/s) June 25, gage height, 6.28 ft (1.914 m), no peak above base of 300 ft³/s (8.50 m³/s); no flow Nov. 24-26, May 10-13, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	.42	.10	.45	.40	1.5	.63	.07	.42	3.7	3.8	3.8
2	.24	.43	.10	.30	.40	1.2	.51	.07	.45	4.0	2.9	4.0
3	.18	.48	.15	.10	.40	1.0	.61	.06	.76	4.9	2.5	4.6
4	.19	.47	.15	.05	.30	.80	.61	.05	.82	5.3	2.2	3.5
5	.08	.35	.20	.10	.15	.45	.42	.06	.91	5.2	4.8	2.1
6	.28	1.5	.20	.10	.15	.48	.36	.05	1.1	4.4	11	1.3
7	.18	1.1	.25	.10	.25	.50	.39	.05	1.1	3.4	8.8	.85
8	.18	.70	.30	.10	.40	.50	.37	.04	.95	4.3	7.8	4.2
9	.19	.60	.30	.12	.60	.55	.35	.02	.87	4.8	7.7	3.1
10	.07	.62	.35	.15	.55	.60	.26	0	.79	5.5	8.5	.94
11	.16	.58	.35	.20	.50	.60	.22	0	.73	4.7	7.9	1.5
12	.14	.40	.30	.25	.50	.60	.20	0	.65	4.7	6.9	9.9
13	.10	.42	.30	.30	.50	.60	.14	0	.53	4.8	7.7	6.8
14	.22	.68	.25	.30	.55	.70	.19	.03	.48	5.0	7.2	6.9
15	.19	.82	.25	.40	.60	.90	.14	.08	.43	4.8	5.9	5.1
16	.13	.76	.20	.45	.60	1.2	.74	.09	.46	5.1	4.4	3.5
17	.23	.57	.15	.50	.65	2.0	.32	.06	.43	6.7	4.6	4.4
18	.29	.51	.20	.55	.70	2.7	.12	.04	.35	4.6	4.5	4.1
19	.29	.45	.20	.58	.80	2.6	.07	.02	.32	3.4	4.6	.98
20	.30	.30	.25	.58	.80	2.3	.07	0	.34	2.9	5.6	.58
21	.48	.10	.30	.60	.75	1.9	.07	.02	.36	5.4	5.7	.95
22	.74	.15	.35	.70	.75	1.4	.05	.87	.46	10	7.4	.60
23	.33	.10	.40	.70	.80	.94	.05	1.4	1.7	9.5	5.7	.38
24	.31	0	.40	.65	.95	.76	.07	5.0	3.5	6.0	6.1	.36
25	.36	0	.42	.50	1.2	.63	.07	2.3	18	4.0	6.4	.53
26	.31	0	.46	.35	1.5	.52	.06	1.2	38	3.6	6.7	.98
27	.34	.05	.50	.35	1.7	.45	.06	.87	12	4.6	4.5	.67
28	.36	.10	.55	.35	1.9	.42	.06	.79	5.4	5.1	4.4	.39
29	.38	.10	.50	.38	2.0	.81	.06	.67	3.4	5.6	4.5	.71
30	.40	.10	.50	.38	---	1.4	.08	.57	2.7	5.5	3.8	1.0
31	.43	---	.50	.38	---	.86	---	.51	---	4.2	3.3	---
TOTAL	8.54	12.86	9.43	11.02	21.35	31.87	7.35	14.99	98.41	155.7	177.8	78.72
MEAN	.28	.43	.30	.36	.74	1.03	.25	.48	3.28	5.02	5.74	2.62
MAX	.74	1.5	.55	.70	2.0	2.7	.74	5.0	38	10	11	9.9
MIN	.07	0	.10	.05	.15	.42	.05	0	.32	2.9	2.2	.36
AC-FT	17	26	19	22	42	63	15	30	195	309	353	156
CAL YR 1975	TOTAL	4456.94	MEAN	12.2	MAX	520	MIN	0	AC-FT	8840		
WTR YR 1976	TOTAL	628.04	MEAN	1.72	MAX	38	MIN	0	AC-FT	1250		

PLATTE RIVER BASIN

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06772000 WOOD RIVER NEAR ALDA, NE

LOCATION.--Lat 40°51'10", long 98°28'20", in NE1/4SE1/4 sec.7, T.10 N., R.10 W., Hall County, Hydrologic Unit 10200102, on right bank 1.2 mi (1.9 km) south of Alda, 2.2 mi (3.5 km) upstream from old north channel of the Platte River, and 19 mi (31 km) upstream from present mouth.

DRAINAGE AREA.--628 mi² (1,627 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,897.66 ft (578.407 m) above mean sea level (Bureau of Reclamation bench mark).

REMARKS.--Records fair. Numerous small pump diversions for irrigation above station.

AVERAGE DISCHARGE.--23 years, 10.7 ft³/s (0.303 m³/s), 7,750 acre-ft/yr (9.56 hm³/yr); median of yearly mean discharges, 5.4 ft³/s (0.153 m³/s), 3,900 acre-ft/yr (4.81 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,630 ft³/s (46.2 m³/s) June 16, 1967, gage height, 12.22 ft (3.725 m); no flow for most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40 ft³/s (1.13 m³/s) June 28, gage height, 5.03 ft (1.533 m), no peak above base of 300 ft³/s (8.50 m³/s); no flow for most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0			0	0	3.8	6.4	1.4
2					0			0	0	3.6	5.5	1.4
3					0			0	0	3.8	5.3	1.2
4					0			0	0	3.6	5.1	1.1
5					0			0	0	4.6	4.9	.99
6					0			0	0	4.6	4.9	.87
7					0			0	0	4.4	4.6	.56
8					0			0	0	4.0	4.2	.66
9					0			0	0	3.4	4.2	.66
10					0			0	0	3.4	5.7	.46
11					0			0	0	3.4	4.4	.36
12					0			0	0	3.1	4.0	.09
13					0			0	0	5.7	4.0	0
14					0			0	0	5.1	7.1	0
15					0			0	0	6.2	4.6	0
16					0			0	0	6.9	2.7	.09
17					.66			0	0	5.9	2.3	.27
18					2.5			0	0	4.4	2.7	.18
19					1.1			0	0	4.6	2.5	.46
20					.79			0	0	6.7	2.5	.66
21					0			0	0	5.7	2.5	.76
22					1.7			0	0	6.4	2.3	.99
23					.24			0	0	3.8	2.3	1.2
24					0			.69	0	4.9	2.2	1.1
25					1.5			7.4	0	8.9	2.2	1.1
26					0			5.5	0	8.4	2.2	1.2
27					0			1.7	8.3	5.9	1.5	1.2
28					0			0	29	4.2	1.6	1.2
29					0			0	14	4.4	1.5	1.1
30					---			0	6.2	4.4	1.2	.90
31		---			---		---	0	---	5.7	1.2	---
TOTAL	0	0	0	0	8.49	0	0	15.29	57.5	153.9	108.3	22.16
MEAN	0	0	0	0	.29	0	0	.49	1.92	4.96	3.49	.74
MAX	0	0	0	0	2.5	0	0	7.4	29	8.9	7.1	1.4
MIN	0	0	0	0	0	0	0	0	0	3.1	1.2	0
AC-FT	0	0	0	0	17	0	0	30	114	305	215	44
CAL YR 1975	TOTAL	3627.37	MEAN 9.94	MAX 343	MIN 0	AC-FT 7190						
WTR YR 1976	TOTAL	365.64	MEAN 1.00	MAX 29	MIN 0	AC-FT 725						

PLATTE RIVER BASIN

06772000 WOOD RIVER NEAR ALDA, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	DISSOLVED OXYGEN (MG/L) (00300)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	FECAL COLIFORM (COL. PER 100 ML) (31616)	TOTAL CALCIUM (CA) (MG/L) (00916)
FEB 25...	0920	3.7	613	7.6	3.0	38	10.0	52	640	50
JUL 01...	1000	4.3	442	7.6	19.5	220	7.3	61	12000	51
22...	0810	8.1	1090	8.0	23.0	21	6.0	30	3500	140
AUG 11...	0855	3.8	1330	8.0	20.5	10	8.0	70	1270	150
SEP 01...	1130	1.3	1220	8.1	23.0	17	9.9	29	830	130

DATE	TOTAL MAGNESIUM (MG/L) (00927)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CaCO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)
FEB 25...	8.2	56	13	203	0	167	54	64	360	.49
JUL 01...	11	20	23	184	0	151	48	24	320	.44
22...	24	87	22	368	16	330	230	75	835	1.14
AUG 11...	25	130	27	390	23	358	230	130	962	1.31
SEP 01...	28	110	22	374	24	347	260	100	906	1.23

DATE	DISSOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DISSOLVED PHOSPHORUS (P) (MG/L) (00666)
FEB 25...	3.60	368	.35	6.4	3.6	10	10	2.0	1.9
JUL 01...	3.72	988	5.0	.03	2.0	2.0	7.0	2.0	1.6
22...	18.3	883	2.2	.10	1.5	1.6	3.8	1.5	1.3
AUG 11...	9.87	969	3.3	.06	1.5	1.6	4.9	1.8	1.6
SEP 01...	3.18	912	2.0	.00	1.6	1.6	3.6	1.1	1.1

PLATTE RIVER BASIN

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06772200 WOOD RIVER NEAR GRAND ISLAND, NE

LOCATION.--Lat 40°56'05", long 98°16'56", in SW1/4NW1/4SW1/4 sec.7, T.11 N., R.8 W., Merrick County, Hydrologic Unit 10200102, at bridge on county road, 1.0 mi (1.6 km) south of U.S. Highway 30, 3.0 mi (4.8 km) east of Grand Island.

PERIOD OF RECORD.--Water year 1973 to current year.

WATER QUALITY DATA: WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)
OCT 02...	1125	5.3	1380	7.7	17.5	4	16.4	35	--	170000	1000
NOV 11...	1125	17	867	7.3	17.5	5	5.5	37	31	270000	12000
DEC 23...	1040	36	729	7.3	18.5	6	5.6	71	22	54000	6500
JAN 13...	1055	35	830	7.2	18.0	7	5.1	20	17	290000	7900
FEB 11...	1210	22	1040	7.6	17.0	4	8.5	12	6.5	20000	1700
MAR 24...	0920	3.9	1390	7.3	11.5	6	5.5	37	7.4	1700	280
APR 14...	1050	4.8	974	7.7	22.5	5	17.2	23	--	3300	350
MAY 26...	0920	11	744	7.4	15.5	8	4.6	16	8.2	21000	3000
JUN 16...	0920	12	877	7.4	21.0	7	4.2	--	18	53000	2400
JUL 27...	0920	16	870	7.4	24.5	4	4.9	15	13	10000	650
AUG 18...	0945	12	1010	7.2	26.0	6	4.7	55	38	--	3300
SEP 29...	0915	16	727	7.2	19.5	4	3.9	44	9.8	3500	490

DATE	TOTAL CAL- CIUM (CA) (MG/L) (00916)	TOTAL MAG- NE- SIUM (MG) (MG/L) (00927)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL PO- TAS- SIUM (K) (MG/L) (00937)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)
OCT 02...	67	14	32	21	334	0	274	160	190	807
NOV 11...	83	13	78	15	253	0	208	140	75	563
DEC 23...	--	17	86	12	246	0	202	170	52	569
JAN 13...	100	16	85	12	210	0	172	170	62	575
FEB 11...	99	18	110	12	260	0	213	230	93	694
MAR 24...	75	12	38	22	330	0	271	150	230	864
APR 14...	72	13	27	19	298	16	272	120	140	680
MAY 26...	76	16	64	17	285	0	234	110	64	541
JUN 16...	82	15	78	13	264	0	217	130	80	559
JUL 27...	81	17	89	12	235	0	193	190	69	608
AUG 18...	90	17	100	--	--	0	--	190	88	677
SEP 29...	74	15	77	11	246	0	202	140	78	542

PLATTE RIVER BASIN

06772200 WOOD RIVER NEAR GRAND ISLAND, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DIS-SOLVED PHOSPHORUS (P) (MG/L) (00666)
OCT 02...	1.10	11.5	835	.28	21	1.0	22	22	5.8	5.7
NOV 11...	.77	25.8	572	1.9	9.8	8.2	18	20	1.3	1.1
DEC 23...	.77	55.3	610	1.7	3.8	.70	4.5	6.2	1.2	1.1
JAN 13...	.78	54.3	590	4.4	4.1	4.3	8.4	13	1.3	1.1
FEB 11...	.94	41.2	722	1.1	6.3	--	--	--	1.5	1.4
MAR 24...	1.18	9.10	874	.15	19	9.0	28	28	5.8	3.9
APR 14...	.92	8.81	688	.30	13	9.0	22	22	7.0	1.4
MAY 26...	.74	16.1	589	3.8	4.0	2.0	6.0	9.8	3.0	2.8
JUN 16...	.76	18.1	608	.00	.76	6.5	7.3	7.3	2.2	2.2
JUL 27...	.83	27.1	633	2.7	2.5	.80	3.3	6.0	1.5	1.5
AUG 18...	.92	21.9	703	1.9	--	--	5.0	6.9	3.0	2.7
SEP 29...	.74	23.4	589	2.4	4.3	.50	4.8	7.2	1.3	1.1

DATE	TIME	COLOR (PLAT-INUM-COBALT UNITS) (00080)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CALCIUM (CA) (MG/L) (00915)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L) (00925)	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD-SORPTION RATIO (00931)	DIS-SOLVED POTASSIUM (K) (MG/L) (00935)
NOV 11...	1125	10	250	43	77	14	78	2.1	15
FEB 11...	1210	5	270	57	82	17	110	2.9	12
MAY 26...	0920	3	260	26	76	16	65	1.8	16
AUG 18...	0945	4	300	--	89	18	100	2.5	15

DATE	DIS-SOLVED FLUORIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SI02) (MG/L) (00955)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS-SOLVED BORON (B) (UG/L) (01020)	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED MANGANESE (MN) (UG/L) (01056)	DIS-SOLVED SELENIUM (SE) (UG/L) (01145)	DIS-SOLVED SILVER (AG) (UG/L) (01075)
NOV 11...	.5	28	552	250	20	30	--	--
FEB 11...	.6	22	695	190	10	30	3	0
MAY 26...	.4	28	516	--	50	140	--	--
AUG 18...	.6	26	--	200	40	30	5	0

PLATTE RIVER BASIN

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06772500 WOOD RIVER NEAR CHAPMAN, NE

LOCATION.--Lat 40°57'56", long 98°12'22", in NE1/4SE1/4 sec.34, T.12 N., R.8 W., Merrick County, Hydrologic Unit 10200102, at county road bridge 2.5 mi (4.0 km) west and 4.0 mi (6.4 km) south of center of Chapman.

DRAINAGE AREA.--700 mi² (1,810 km²), approximately.

PERIOD OF RECORD.--Water year 1968 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)
OCT 08...	0900	2.2	1400	7.9	12.0	17	4	11.6	47	58000
NOV 11...	1340	7.9	788	7.8	11.5	10	5	10.4	29	39000
DEC 23...	0950	16	774	7.6	8.0	4	10	8.4	28	54000
JAN 13...	1010	17	986	7.5	10.0	8	10	6.8	14	780000
FEB 25...	1050	15	1010	7.7	12.0	4	7	7.8	26	6800
MAR 16...	1010	14	934	7.6	10.0	8	20	7.4	15	8000
APR 07...	1020	17	1170	7.5	13.0	25	25	7.3	8.2	5000
MAY 05...	1100	7.9	1120	7.6	16.0	8	8	8.0	10	7300
JUN 10...	1325	12	943	7.6	32.0	6	20	5.6	10	17000
JUL 07...	0900	11	781	7.6	22.0	3	20	5.5	11	150000
AUG 11...	1310	6.1	1080	7.6	26.0	18	5	7.3	--	1200
SEP 23...	1220	4.1	1070	7.9	18.0	6	4	10.2	9.0	1500

DATE	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA, MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (00915)	DISSOLVED MAGNESIUM (MG) (00925)	DISSOLVED SODIUM (NA) (00930)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED PHOSPHATE (K) (00935)	BICARBONATE (HC03) (00440)	CARBONATE (C03) (00445)
OCT 08...	3800	250	0	77	14	180	5.0	22	343	0
NOV 11...	17000	250	38	76	14	81	2.2	21	255	0
DEC 23...	9400	260	79	80	14	71	1.9	12	218	0
JAN 13...	24000	260	63	81	15	91	2.4	15	245	0
FEB 25...	640	280	80	86	17	100	2.6	12	250	0
MAR 16...	400	250	51	77	15	94	2.6	12	248	0
APR 07...	2000	260	0	73	18	150	4.1	21	315	0
MAY 05...	1200	250	81	75	16	140	3.8	19	210	0
JUN 10...	920	280	110	81	18	100	2.6	15	200	0
JUL 07...	8400	270	110	82	16	72	1.9	16	190	0
AUG 11...	842	270	100	77	18	140	3.7	14	198	0
SEP 23...	1200	270	120	82	17	120	3.2	15	190	0

06772500 HOOD RIVER NEAR CHAPMAN, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ALKA- LITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (MG/L) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (MG/L) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)
OCT 08...	281	130	210	.6	18	821	1.12	4.88	.73
NOV 11...	209	140	79	.6	28	566	.77	12.1	1.5
DEC 23...	179	160	50	.5	24	519	.71	22.4	3.2
JAN 13...	201	170	85	.4	24	603	.82	27.7	7.7
FEB 25...	205	200	80	.6	23	642	.87	26.0	1.1
MAR 16...	203	150	78	.6	24	573	.78	21.7	1.7
APR 07...	258	140	150	.6	27	736	1.00	33.8	16
MAY 05...	172	140	160	.6	27	682	.93	14.5	4.3
JUN 10...	164	200	74	.5	28	616	.84	20.0	.87
JUL 07...	156	150	71	.5	30	532	.72	15.8	10
AUG 11...	162	210	140	.3	21	718	.98	11.8	4.5
SEP 23...	156	210	120	.6	27	686	.93	7.59	1.5

DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
OCT 08...	19	2.0	21	22	3.9	3.7	410	70	110
NOV 11...	10	6.0	16	18	2.2	2.2	270	20	50
DEC 23...	3.4	1.3	4.7	7.9	1.4	1.3	160	30	40
JAN 13...	3.0	9.0	12	20	2.3	2.2	190	40	50
FEB 25...	5.5	3.1	8.6	9.7	2.3	2.3	200	20	120
MAR 16...	4.7	.30	5.0	6.7	2.0	1.8	190	0	180
APR 07...	14	.00	14	30	14	13	330	40	430
MAY 05...	.00	5.0	5.0	9.3	5.7	5.7	310	30	490
JUN 10...	5.6	1.5	7.1	8.0	3.4	3.1	220	10	170
JUL 07...	.74	.86	1.6	12	2.9	2.5	310	20	40
AUG 11...	.52	.14	.66	5.2	2.9	2.8	250	0	10
SEP 23...	--	--	5.5	7.0	2.0	1.9	230	20	30

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED LEAD (PB) (UG/L) (01049)
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JAN 13...	1010	0	200	0	0	1	6	2
JUL 07...	0900	5	100	0	10	0	0	0

DATE	TOTAL MERCURY (HG) (71900)	SUS- PENDED MERCURY (HG) (71895)	DIS- SOLVED MERCURY (HG) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	CYANIDE (CN) (MG/L) (00720)
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JAN 13...	.1	.0	.1	1	0	4	.00
JUL 07...	<.5	.0	<.5	6	0	20	--

06774000 PLATTE RIVER NEAR DUNCAN, NE

LOCATION.--Lat 41°22'04", long 97°29'40", in SE1/4SW1/4 sec.12, T.16 N., R.2 W., Platte County, Hydrologic Unit 10200103, on left bank 25 ft (8 m) downstream from highway bridge, 1.5 mi (2.4 km) south of Duncan, and 12 mi (19 km) upstream from Loup River.

DRAINAGE AREA (REVISED).--60,900 mi² (157,700 km²), approximately, of which about 56,100 mi² (145,300 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide Basin is not included.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1895 to December 1909 (irrigation seasons only 1895-1900), July 1910 to December 1911 (gauge heights and discharge measurements only), April 1912 to September 1915, June 1928 to current year. Published as "near Columbus" 1895-1915.

REVISED RECORDS.--WSP 956: 1935. WSP 1390: 1897, 1899-1901, 1903-5, 1929-32, 1935 (M), 1936. WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,478.55 ft (450.662 m) above mean sea level. June 1895 to December 1909, April 1912 to September 1915, and June to October 1928 nonrecording gage at site 7 mi (11 km) downstream at different datums. Oct. 25, 1928, to Feb. 20, 1935, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 44,100 ft³/s (1,250 m³/s) June 23, 1905, gage height, 6.50 ft (1.981 m), site and datum then in use; no flow at times in 1931, 1933-42, 1944, 1952-57, 1959, 1963, 1974, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,440 ft³/s (126 m³/s) Feb. 14, gage height, 3.09 ft (0.942 m); maximum gage height, 5.95 ft (1.814 m) Jan. 5, backwater from ice; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	609	776	1100	1400	1350	1710	1860	1850	998	159		0
2	607	786	1200	1000	1300	1760	1660	1720	920	250		0
3	591	824	1350	800	1250	1670	1460	1670	803	326		0
4	557	843	1450	800	1200	1600	1380	1750	708	322		0
5	471	845	1500	900	1180	1550	1400	1770	602	289		0
6	460	796	1400	780	1200	1500	1460	1580	507	251		0
7	458	773	1550	700	1500	1900	1660	1550	438	201		0
8	456	752	1800	900	1600	2440	1770	1450	399	154		0
9	459	765	2000	1100	1700	2940	1900	1310	353	104		0
10	453	866	2150	1140	1900	2620	1880	1180	306	71		0
11	485	897	2200	1220	2100	2410	1730	1100	263	41		0
12	512	834	2200	1260	2500	1860	1700	1100	221	24		0
13	538	874	1500	1280	3200	1610	1780	1110	192	6.1		0
14	508	893	1600	1300	4280	1620	2020	1180	170	2.1		0
15	498	928	1250	1300	3650	1920	2180	1050	137	1.2		2.0
16	513	964	1300	1300	3030	1780	2370	945	127	.16		4.0
17	536	1030	680	1280	2300	1760	2360	880	108	1.2		12
18	545	1090	1000	1260	2040	1760	2260	822	105	.65		40
19	543	1150	1500	1220	1830	1790	2220	784	96	1.7		80
20	576	1540	1900	1200	1810	1760	1910	739	87	.22		130
21	582	1200	1900	1300	1760	1760	1850	755	71	0		190
22	611	1000	1800	1350	1840	1770	1790	1100	51	0		270
23	633	1100	1700	1400	1910	1770	1830	1690	59	0		450
24	664	900	1800	1450	1870	1630	1930	1970	106	0		720
25	685	640	1900	1400	1800	1520	1970	2150	86	0		620
26	706	880	1900	1350	1780	1490	1940	1890	92	0		520
27	735	860	1900	1300	1760	1460	1710	1590	96	0		520
28	745	840	1900	1350	1780	1520	1950	1490	92	0		522
29	746	1100	1850	1400	1750	1730	1820	1340	71	0		533
30	759	1000	1800	1400	---	2260	1910	1180	88	0		544
31	750	---	1650	1350	---	2220	---	1090	---	0		---
TOTAL	17991	27746	50730	37190	57170	57090	55660	41785	8352	2205.33	0	5157.0
MEAN	580	925	1636	1200	1971	1842	1855	1348	278	71.1	0	172
MAX	759	1540	2200	1450	4280	2940	2370	2150	998	326	0	720
MIN	453	640	680	700	1180	1460	1380	739	51	0	0	0
AC-FT	35690	55030	100600	73770	113400	113200	110400	82880	16570	4370	0	10230

CAL YR 1975 TOTAL 416355.20 MEAN 1141 MAX 6280 MIN 1.0 AC-FT 825800
WTR YR 1976 TOTAL 361076.33 MEAN 987 MAX 4280 MIN 0 AC-FT 716200

06774000 PLATTE RIVER NEAR DUNCAN, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	
OCT 09...	1030	451	901	7.6	11.5	5	260	77	65	
NOV 19...	0930	1080	780	7.4	7.0	15	240	77	64	
DEC 10...	1430	2170	771	7.6	.5	12	250	69	66	
JAN 22...	0900	1280	826	8.2	.5	4	260	74	73	
FEB 10...	1115	1900	891	7.7	.5	5	290	97	79	
MAR 03...	1035	1580	854	7.7	1.0	2	290	95	81	
APR 14...	0910	1990	835	7.4	17.5	15	270	86	70	
MAY 07...	0800	1610	906	7.3	7.0	1	300	120	79	
JUN 16...	0900	107	832	7.8	17.0	1	280	100	73	
JUL 08...	1200	161	952	--	24.5	2	280	110	68	
SEP 28...	1645	532	872	--	15.5	6	250	82	64	
DATE		DIS- SOLVED MAG- NE- SIUM (MG) (00925)	DIS- SOLVED SODIUM (NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (00935)	BICAR- BONATE (MC03) (MG/L) (00440)	CAR- BONATE (C03) (MG/L) (00445)	ALKA- LITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT 09...	24	90	2.4	13	224	0	184	240	26	
NOV 19...	19	73	2.1	11	196	0	161	190	23	
DEC 10...	20	69	1.9	10	217	0	178	180	23	
JAN 22...	20	72	1.9	11	233	0	191	210	25	
FEB 10...	23	79	2.0	11	238	0	195	230	29	
MAR 03...	21	70	1.8	11	236	0	194	200	27	
APR 14...	22	71	1.9	12	219	0	180	210	29	
MAY 07...	25	84	2.1	12	225	0	185	240	31	
JUN 16...	23	70	1.8	13	214	0	176	200	27	
JUL 08...	27	95	2.5	16	208	--	171	270	35	
SEP 28...	23	91	2.5	13	210	--	172	250	31	
DATE		DIS- SOLVED FLUO- RIDE (F) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	
OCT 09...		.6	19	588	.80	716	.00	.02	150	
NOV 19...		.3	7.4	486	.66	1420	.38	.05	130	
DEC 10...		.4	22	501	.68	2940	.69	.06	110	
JAN 22...		.5	22	553	.75	1910	.93	.09	110	
FEB 10...		.5	24	597	.81	3060	1.0	.08	130	
MAR 03...		.5	26	558	.76	2380	1.2	.09	130	
APR 14...		.4	18	542	.74	2910	.24	.05	110	
MAY 07...		.5	16	601	.82	2610	.43	.07	200	
JUN 16...		.5	25	539	.73	156	.42	.10	130	
JUL 08...		.5	22	636	.87	276	.01	.05	160	
SEP 28...		.5	23	600	.82	862	.13	.01	150	

PLATTE RIVER BASIN

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06775500 MIDDLE LOUP RIVER AT DUNNING, NE

LOCATION.--Lat 41°49'50", long 100°06'00", in NW1/4SE1/4 sec.33, T.22 N., R.24 W., Blaine County, Hydrologic Unit 10210001, on left bank just upstream from bridge on State Highway 2 at northeast corner of Dunning, 1 mi (2 km) upstream from Dismal River.

DRAINAGE AREA.--1,850 mi² (4,790 km²), approximately, of which about 80 mi² (210 km²) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1945 to current year.

REVISED RECORDS.--WDR NE-72: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,607.14 ft (794.656 m) above mean sea level. Prior to Sept. 12, 1946, nonrecording gage, and Sept. 12, 1946, to Sept. 30, 1962, water-stage recorder at site 0.2 mi (0.3 km) upstream at datum 0.03 ft (0.009 m) higher.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--31 years, 397 ft³/s (11.24 m³/s), 287,600 acre-ft/yr (0.355 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft³/s (28.9 m³/s) Apr. 20, 1971, gage height, 2.50 ft (0.762 m); maximum gage height, 7.02 ft (2.140 m) Mar. 31, 1949, backwater from ice, site and datum then in use; minimum daily discharge, 100 ft³/s (2.83 m³/s) Dec. 5, 6, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 718 ft³/s (20.3 m³/s) Aug. 16, gage height, 2.06 ft (0.628 m); maximum gage height, 5.16 ft (1.573 m) Jan. 8, backwater from ice; minimum daily discharge, 270 ft³/s (7.65 m³/s) Nov. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	360	406	410	450	410	490	356	387	407	334	365	373
2	361	411	420	310	415	490	385	388	391	418	371	358
3	360	400	430	320	420	450	375	392	385	470	362	354
4	361	404	460	340	455	400	365	394	387	409	365	354
5	362	413	440	370	415	330	378	392	388	391	367	354
6	368	416	430	340	370	370	393	401	388	367	373	348
7	361	420	450	330	320	405	411	377	390	361	369	368
8	372	414	460	360	340	405	402	376	384	364	361	370
9	383	417	428	390	360	435	369	383	382	350	362	365
10	374	416	425	420	390	450	376	396	390	337	356	358
11	376	423	444	450	400	465	375	387	367	338	351	352
12	378	416	422	430	395	480	377	410	363	332	360	353
13	380	395	436	380	385	405	372	406	362	334	366	373
14	403	370	400	370	430	385	379	387	366	350	387	361
15	394	393	440	410	455	430	382	400	363	353	368	372
16	397	414	400	390	465	424	433	394	339	360	547	373
17	396	414	350	420	470	441	417	385	346	340	435	370
18	396	429	310	420	475	440	402	378	356	339	389	372
19	403	400	400	410	460	446	392	386	348	341	374	377
20	401	290	390	430	465	453	408	388	342	351	365	377
21	395	270	410	430	460	423	397	414	335	350	355	364
22	403	290	421	460	410	405	385	433	328	354	355	363
23	429	330	420	440	427	379	403	488	392	342	350	366
24	445	420	430	430	455	406	403	483	407	332	348	370
25	401	400	440	405	470	395	359	446	368	327	354	366
26	390	310	455	400	475	395	374	437	364	372	361	371
27	394	330	460	420	495	380	400	423	357	379	356	365
28	407	340	465	356	510	410	426	431	353	388	358	366
29	402	350	450	390	500	395	418	431	347	415	352	369
30	404	320	455	415	---	380	389	423	342	411	343	373
31	416	---	435	425	---	370	---	414	---	377	353	---
TOTAL	12072	11421	13186	12311	12497	12932	11701	12630	11037	11286	11478	10955
MEAN	389	381	425	397	431	417	390	407	368	364	370	365
MAX	445	429	465	460	510	490	433	488	407	470	547	377
MIN	360	270	310	310	320	330	356	376	328	327	343	348
AC-FT	23940	22650	26150	24420	24790	25650	23210	25050	21890	22390	22770	21730
CAL YR 1975	TOTAL	146086	MEAN 400	MAX 613	MIN 200	AC-FT 289800						
WTR YR 1976	TOTAL	143506	MEAN 392	MAX 547	MIN 270	AC-FT 284600						

PLATTE RIVER BASIN

06775500 MIDDLE LOUP RIVER AT DUNNING, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-56, 1965 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1949 to September 1956, October 1965 to current year.

SUSPENDED SEDIMENT DISCHARGE: March 1950 to September 1952, October 1953 to September 1954.

INSTRUMENTATION.--Temperature recorder from October 1, 1965.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURES: Maximum, 34.0°C June 21, 1956; minimum, 0.0°C on many days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily, 3,800 mg/L Feb. 23, 1952; minimum daily, 56 mg/L Jan. 23, 1952.

SEDIMENT LOADS: Maximum daily, 5,160 tons (4,700 tonnes) Mar. 31, 1952; minimum daily, 21 tons (19 tonnes) Jan. 23, 1952.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 31.5°C July 11; minimum, 0.0°C on several days during winter period.

TEMPERATURE ($^{\circ}\text{C}$) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(RECORDER WITH TEMPERATURE ATTACHMENT, CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31

(RECORDED WITH TEMPERATURE ATTACHMENT, CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)												
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	8.5	11.0	6.0	0.5	0.5	1.5	0.5	4.5	3.5	3.5	1.0
2	16.0	10.0	10.5	7.0	0.5	0.0	1.0	1.0	4.5	3.5	3.5	1.0
3	17.0	11.0	11.5	6.5	0.0	0.0	1.0	1.0	3.5	2.5	1.0	1.0
4	16.5	12.0	12.5	7.5	0.0	0.0	1.0	1.0	3.5	1.5	1.0	1.0
5	17.0	12.0	12.0	7.5	0.0	0.0	1.0	1.0	1.5	1.5	1.0	1.0
6	17.0	11.5	12.5	9.5	0.0	0.0	1.0	1.0	1.5	1.5	1.5	1.0
7	16.0	11.5	11.0	7.5	0.0	0.0	1.0	1.0	1.5	1.0	5.5	1.0
8	13.5	10.5	10.0	9.0	1.0	0.0	1.0	1.0	1.5	1.0	10.0	4.0
9	12.5	7.0	9.0	6.5	4.5	1.0	1.0	1.0	5.5	1.5	11.0	5.0
10	14.0	8.5	7.0	4.0	5.5	3.5	0.5	0.5	5.5	5.5	10.0	6.5
11	16.0	10.0	5.5	2.5	5.0	2.5	0.5	0.5	6.0	4.0	7.5	5.0
12	17.0	11.5	4.0	1.5	2.5	1.5	0.5	0.5	8.5	4.5	5.0	1.0
13	15.0	11.5	4.5	1.5	1.5	1.0	0.5	0.5	7.5	6.0	5.0	1.0
14	13.5	9.0	7.5	2.0	1.0	0.5	0.5	0.5	6.5	4.5	5.5	1.5
15	12.5	7.0	7.5	4.0	0.5	0.5	0.5	0.5	7.5	4.5	7.0	2.0
16	10.5	8.5	9.5	4.5	0.5	0.5	0.5	0.5	9.5	5.5	9.5	3.5
17	12.0	6.5	9.0	5.0	0.5	0.5	0.5	0.5	8.5	5.5	11.0	4.5
18	12.0	7.0	7.0	4.5	0.5	0.5	0.5	0.5	7.5	4.0	14.0	7.5
19	12.5	7.5	4.5	0.5	0.5	0.5	0.5	0.5	7.0	2.5	14.5	9.5
20	12.5	7.5	0.5	0.5	0.5	0.5	0.5	0.5	6.0	1.5	9.0	5.5
21	12.5	7.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.0	9.5	4.0
22	12.0	9.0	0.5	0.5	0.5	0.5	0.5	0.5	5.5	1.0	11.5	4.5
23	4.5	4.5	0.5	0.5	0.5	0.5	2.5	1.0	8.5	3.5	12.0	5.5
24	5.0	4.0	0.5	0.5	1.0	0.5	4.0	2.0	10.0	4.0	13.5	6.5
25	6.5	2.0	0.5	0.5	1.0	0.5	3.5	1.5	10.5	5.0	14.5	7.0
26	9.0	3.5	0.5	0.5	1.0	1.0	1.5	1.5	11.0	6.0	12.0	7.0
27	11.0	7.0	0.5	0.5	1.5	0.5	1.5	1.5	9.5	6.0	11.5	5.5
28	10.5	5.5	0.5	0.5	1.5	1.0	4.5	1.5	9.0	5.5	10.0	6.0
29	10.5	6.0	0.5	0.5	1.5	1.0	6.0	2.5	6.5	3.5	8.5	5.0
30	11.5	6.5	0.5	0.5	2.0	1.0	5.5	4.0	---	---	10.0	3.5
31	10.5	7.5	---	---	2.0	1.5	4.5	2.5	---	---	12.0	4.0
MONTH	17.0	2.0	12.5	0.5	5.5	0.0	6.0	0.5	11.0	1.0	14.5	1.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	6.0	16.0	8.5	26.0	16.0	22.5	17.0	23.5	20.0	25.5	16.5
2	14.0	8.5	14.0	6.5	25.0	17.0	21.0	17.0	24.0	19.0	23.5	18.5
3	12.0	5.0	16.5	7.5	22.5	17.0	19.5	17.5	23.5	17.5	22.5	16.5
4	14.0	6.5	18.5	9.0	21.5	16.0	22.0	16.5	28.5	19.0	22.5	16.0
5	16.5	8.5	17.5	12.0	21.0	15.0	25.5	18.5	26.5	20.0	24.5	17.0
6	14.5	10.0	16.5	9.0	21.5	16.0	29.5	19.5	25.5	19.0	24.5	19.0
7	13.5	10.5	18.5	9.5	22.5	16.0	28.5	21.0	25.5	19.0	20.0	16.5
8	11.0	9.5	18.5	10.5	25.5	16.0	29.0	21.5	26.5	19.5	23.5	14.5
9	15.0	7.5	18.5	11.5	27.5	19.0	28.5	21.0	28.5	21.0	19.5	11.5
10	16.5	11.0	20.5	12.0	29.0	20.0	29.5	20.0	29.5	21.0	20.0	14.0
11	15.5	11.0	20.0	13.5	27.0	19.5	31.5	23.5	26.0	20.5	23.5	15.0
12	14.0	9.5	16.5	12.0	22.5	18.5	29.5	22.5	27.5	20.0	21.0	19.0
13	18.5	11.0	16.5	9.0	26.5	16.5	31.0	21.5	27.5	20.0	23.5	17.0
14	19.0	12.0	20.0	10.0	22.5	14.0	29.5	21.5	23.5	19.5	20.5	16.5
15	17.5	12.5	17.5	12.5	19.0	11.0	26.5	21.0	21.0	19.0	20.0	17.5
16	14.0	11.5	16.0	9.5	20.5	13.5	26.5	19.0	25.5	17.5	21.0	17.5
17	14.5	10.0	19.5	10.0	20.5	15.5	28.5	19.5	25.5	20.0	22.0	17.5
18	15.5	9.0	19.0	11.0	19.5	12.5	29.0	21.5	26.5	20.0	23.5	17.5
19	14.0	10.5	23.5	13.5	24.0	14.0	29.5	22.5	26.5	20.0	21.0	14.5
20	15.5	4.0	24.5	16.5	25.0	16.0	26.5	22.0	25.5	18.5	18.5	12.0
21	15.5	10.0	23.5	17.5	25.5	17.0	26.5	20.5	25.5	19.5	19.0	12.0
22	16.5	9.5	17.5	14.0	26.0	18.5	30.0	21.0	27.5	20.5	20.0	12.5
23	19.5	12.0	14.0	11.0	21.0	17.5	30.0	23.5	26.0	20.5	17.0	12.0
24	13.5	8.5	12.5	10.5	21.0	14.5	30.0	22.5	26.5	19.0	14.5	11.0
25	15.5	7.0	15.5	11.5	24.0	15.5	28.5	20.5	26.5	19.5	14.5	14.5
26	11.0	7.5	16.0	12.0	21.0	16.5	27.5	21.5	25.0	20.0	16.0	12.0
27	7.5	6.0	21.5	13.5	25.5	15.5	30.0	22.0	22.5	17.0	14.0	10.0
28	6.5	6.5	24.5	15.5	26.0	18.5	25.5	21.0	24.0	15.5	14.5	7.5
29	10.0	6.5	22.5	16.0	25.0	19.0	27.5	20.5	22.5	16.5	16.5	10.0
30	13.5	8.5	20.5	16.0	25.0	17.0	29.0	23.5	22.5	16.0	19.0	11.0
31	---	---	22.5	15.5	---	---	26.5	21.0	22.5	18.5	---	---
MONTH	19.5	5.0	24.5	6.5	29.0	11.0	31.5	16.5	29.5	15.5	25.5	7.5
YEAR	31.5	0.0										

PLATTE RIVER BASIN

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06775900 DISMAL RIVER NEAR THEDFORD, NE
(Hydrologic bench-mark station and Radiochemical program)

LOCATION.--Lat 41°46'45", long 100°31'30", in SE1/4NW1/4 sec.23, T.21 N., R.28 W., Thomas County, Hydrologic Unit 10210002, on right bank 25 ft (8 m) upstream from bridge on State Highway 83, 2 mi (3 km) upstream from boundary of Nebraska National Forest (Bessey Division), and 14 mi (23 km) south of Thedford.

DRAINAGE AREA.--960 mi² (2,490 km²), approximately, of which about 30 mi² (78 km²) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,800.13 ft (853.480 m) above mean sea level.

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years, 191 ft³/s (5.409 m³/s), 138,400 acre-ft/yr (0.171 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 335 ft³/s (9.49 m³/s) July 28, 1967, gage height, 2.73 ft (0.832 m); maximum gage height, 2.94 ft (0.896 m) Dec. 31, 1968, backwater from ice; minimum daily discharge, 156 ft³/s (4.42 m³/s) Jan. 27, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 304 ft³/s (8.61 m³/s) July 13, gage height, 2.19 ft (0.668 m); minimum daily, 167 ft³/s (4.73 m³/s) Jan. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	194	181	201	195	184	197	199	200	190	192	172
2	191	196	183	184	195	186	197	200	199	191	202	174
3	193	196	192	180	195	179	195	197	197	210	193	175
4	194	194	194	171	191	182	197	196	198	212	189	176
5	194	195	191	184	177	169	200	201	196	194	188	177
6	192	194	185	183	173	171	203	195	197	192	188	177
7	192	198	177	167	173	191	206	195	196	192	186	180
8	192	191	183	171	178	190	211	197	195	197	187	179
9	189	198	187	182	194	199	200	201	197	188	188	176
10	186	196	194	179	202	199	205	202	198	186	186	183
11	187	201	195	176	199	200	203	201	198	185	184	183
12	193	198	196	182	196	187	203	201	193	185	191	188
13	193	192	185	197	199	182	203	196	192	200	185	186
14	190	194	184	183	198	195	205	195	190	191	186	188
15	187	199	171	179	191	198	202	199	187	185	185	192
16	190	200	170	186	191	193	210	196	189	195	229	195
17	190	198	173	194	190	190	205	196	190	195	194	194
18	187	194	168	192	194	193	200	198	192	190	181	196
19	189	201	176	184	191	194	201	199	191	185	179	198
20	189	186	189	179	197	187	201	201	191	180	174	194
21	189	183	188	184	177	187	198	203	191	190	173	196
22	189	194	199	196	183	190	197	204	192	191	175	196
23	192	194	193	194	190	191	204	225	201	191	176	196
24	185	195	189	194	195	192	202	216	201	188	175	192
25	190	195	191	184	192	193	195	204	191	187	175	192
26	190	188	189	181	188	195	199	204	193	188	176	196
27	194	187	188	180	193	190	199	205	190	202	175	189
28	193	189	192	181	197	192	191	204	191	193	171	184
29	190	189	197	194	192	194	191	202	191	235	169	186
30	194	179	193	197	---	189	196	202	190	201	168	189
31	195	---	201	194	---	194	---	202	---	192	169	---
TOTAL	5910	5808	5794	5733	5526	5876	6016	6236	5817	6001	5689	5599
MEAN	191	194	187	185	191	190	201	201	194	194	184	187
MAX	195	201	201	201	202	200	211	225	201	235	229	198
MIN	185	179	168	167	173	169	191	195	187	180	168	172
AC-FT	11720	11520	11490	11370	10960	11660	11930	12370	11540	11900	11280	11110
CAL YR 1975	TOTAL	69046	MEAN 189	MAX 247	MIN 159	AC-FT 137000						
WTR YR 1976	TOTAL	70005	MEAN 191	MAX 235	MIN 167	AC-FT 138900						

PLATTE RIVER BASIN

06775900 DISMAL RIVER NEAR THEDFORD, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1968 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	RIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)
NOV 13...	1045	196	173	8.2	5.0	3	10	12.2	3.3	33	23
JAN 13...	1000	197	158	7.4	2.0	6	25	12.3	--	38	63
MAR 16...	1130	196	218	7.6	8.0	7	--	9.7	2.9	17	33
MAY 19...	0950	196	177	7.6	16.5	2	15	8.1	.6	219	166
JUL 21...	1125	189	181	7.4	21.5	17	20	7.8	1.6	88	200
SEP 22...	1000	195	174	7.5	14.0	4	--	8.4	8.4	206	150

DATE	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA, MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED PO-TAS- SIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
NOV 13...	28	72	0	22	4.1	--	--	--	102	0	84
JAN 13...	160	71	0	22	3.8	9.1	.5	5.1	95	0	78
MAR 16...	4	72	0	23	3.5	6.8	.4	5.0	102	0	84
MAY 19...	296	--	--	24	--	--	--	--	--	0	--
JUL 21...	356	79	0	25	4.1	6.8	.3	5.1	102	0	84
SEP 22...	180	72	0	23	3.5	6.9	.4	5.0	92	0	75

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	DISSOLVED FLUORIDE (F) (MG/L) (00950)	DISSOLVED SILICA (SIO2) (MG/L) (00955)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	DISSOLVED SOLIDS (TONS DAY) (70302)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL PHOSPHORUS (P) (MG/L) (00665)
NOV 13...	--	.9	.3	--	--	--	--	--	--	.18
JAN 13...	12	.8	.5	54	150	159	.20	79.8	.57	.26
MAR 16...	7.5	1.4	.3	54	153	154	.21	81.0	.51	.16
MAY 19...	--	.8	.3	--	--	--	--	--	--	.20
JUL 21...	7.9	1.2	.4	56	163	158	.22	83.2	.24	.23
SEP 22...	7.9	.8	.3	57	151	151	.21	79.5	.18	.21

PLATTE RIVER BASIN

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06775900 DISMAL RIVER NEAR THEDFORD, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED-PHOSPHORUS (P) (MG/L) (00666)	DIS-SOLVED-ARSENIC (AS) (UG/L) (01000)	DIS-SOLVED-BARIUM (BA) (UG/L) (01005)	DIS-SOLVED-BORON (B) (UG/L) (01020)	HEXA-VALENT-CHROMIUM (CR6) (UG/L) (01032)	DIS-SOLVED-COPPER (CU) (UG/L) (01040)	DIS-SOLVED-IRON (FE) (UG/L) (01046)	DIS-SOLVED-LEAD (PB) (UG/L) (01049)	DIS-SOLVED-MANGANESE (MN) (UG/L) (01056)	CYANIDE (CN) (MG/L) (00720)
NOV 13...	--	6	100	20	0	0	10	2	0	.00
JAN 13...	.15	--	--	30	--	--	0	--	--	--
MAR 16...	.16	--	--	20	--	--	20	--	10	--
MAY 19...	--	5	0	30	0	0	30	3	0	.00
JUL 21...	.16	--	--	30	--	--	--	--	--	--
SEP 22...	.15	--	--	20	--	--	30	--	0	--

DATE	TIME	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILTRABLE RESIDUE (MG/L) (00530)	DIS-SOLVED GROSS ALPHA AS (UG/L) (80030)	SUS-PENDED GROSS ALPHA AS (UG/L) (80040)	DIS-SOLVED GROSS BETA AS (PC/L) (03515)	SUS-PENDED GROSS BETA AS (PC/L) (03516)	DIS-SOLVED GROSS BETA AS SR90 (PC/L) (80050)	SUS-PENDED GROSS BETA AS SR90 (PC/L) (80060)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS-SOLVED URANIUM (U) (UG/L) (80020)	TOTAL PCB (UG/L) (39516)
NOV 13...	1045	150	79	1.2	5.8	5.7	2.8	4.7	2.2	.04	.40	.0

DATE	PCB IN BOTTOM MATERIAL (UG/KG) (39519)	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MATERIAL (UG/KG) (39333)	TOTAL CHLOR-DANE (UG/L) (39350)	CHLOR-DANE IN BOTTOM MATERIAL (UG/KG) (39351)	TOTAL DDD (UG/L) (39360)	DDD IN BOTTOM MATERIAL (UG/KG) (39363)	TOTAL DDE (UG/L) (39365)	DDE IN BOTTOM MATERIAL (UG/KG) (39368)	TOTAL DDT (UG/L) (39370)	DDT IN BOTTOM MATERIAL (UG/KG) (39373)
NOV 13...	0	.00	.0	.0	0	.00	.0	.00	.0	.00	.0

DATE	TOTAL DIAZINON (UG/L) (39570)	TOTAL DIELDRIN (UG/L) (39380)	DI-ELDRIN IN BOTTOM MATERIAL (UG/KG) (39383)	TOTAL ENDRIN (UG/L) (39390)	ENDRIN IN BOTTOM MATERIAL (UG/KG) (39393)	TOTAL ETHION (UG/L) (39398)	TOTAL HEPTA-CHLOR (UG/L) (39410)	HEPTA-CHLOR IN BOTTOM MATERIAL (UG/KG) (39413)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L) (39420)	HEPTA-CHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG) (39423)	TOTAL LINDANE (UG/L) (39340)
NOV 13...	.00	.00	.0	.00	.0	.00	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MATERIAL (UG/KG) (39343)	TOTAL MALATHION (UG/L) (39530)	TOTAL METHYL TRI-THION (UG/L) (39600)	TOTAL METHYL TRI-THION (UG/L) (39790)	TOTAL PARA-THION (UG/L) (39540)	TOTAL TOX-APHENE (UG/L) (39400)	TOX-APHENE IN BOTTOM MATERIAL (UG/KG) (39403)	TOTAL TRI-THION (UG/L) (39786)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
NOV 13...	.0	.00	.00	.00	.00	0	0	.00	.00	.00	.00

PLATTE RIVER BASIN

06776500 DISMAL RIVER AT DUNNING, NE

LOCATION.--Lat 41°49'23", long 100°06'05", in sec.4, T.21 N., R.24 W., Blaine County, Hydrologic Unit 10210002, on right bank 100 ft (30 m) downstream from bridge on State Highway 2 at southeast corner of Dunning and 1 mi (2 km) upstream from mouth.

DRAINAGE AREA.--2,040 mi² (5,280 km²), approximately, of which about 45 mi² (120 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--March to June 1932, September 1945 to current year.

REVISED RECORDS.--WSP 2118: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,606.3 ft (794.40 m) above mean sea level. Mar. 1 to June 30, 1932, nonrecording gage at site 0.2 mi (0.3 km) upstream at datum 0.5 ft (0.15 m) lower. Sept. 13, 1945, to Apr. 19, 1956, nonrecording gage on bridge 100 ft (30 m) upstream at present datum.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--31 years (1945-76), 321 ft³/s (9.091 m³/s), 232,600 acre-ft/yr (0.287 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 996 ft³/s (28.2 m³/s) May 26, 1952, gage height, 3.18 ft (0.969 m); maximum gage height observed, 5.21 ft (1.588 m) Jan. 19, 1947, backwater from ice; minimum daily discharge, 100 ft³/s (2.83 m³/s) Jan. 25, 1950, Jan. 9, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 714 ft³/s (20.2 m³/s) July 3, gage height, 2.21 ft (0.674 m); maximum gage height, 3.30 ft (1.006 m) Nov. 26, backwater from ice; minimum daily discharge, 230 ft³/s (6.51 m³/s) Jan. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	276	319	310	310	339	317	314	360	323	288	301	339
2	283	323	340	230	336	309	318	359	319	379	315	307
3	288	326	360	240	313	301	304	354	314	431	315	302
4	291	331	380	250	280	296	310	353	308	324	306	305
5	289	331	360	270	260	310	311	361	306	318	299	309
6	289	340	340	260	270	312	323	345	307	304	297	309
7	293	339	334	250	280	295	335	338	308	301	304	322
8	291	339	347	260	300	327	332	343	309	301	304	322
9	280	332	351	290	316	348	328	341	315	304	308	306
10	285	318	358	330	323	347	328	340	321	286	301	309
11	297	316	342	370	326	341	327	343	304	281	304	313
12	304	301	327	350	343	324	322	342	298	281	302	326
13	306	300	327	320	329	306	335	332	295	281	310	322
14	302	314	314	300	330	319	342	334	299	309	341	315
15	289	322	290	320	336	337	349	329	278	324	319	326
16	294	332	290	300	343	337	383	319	292	306	453	323
17	287	334	270	320	338	342	354	313	292	286	389	324
18	299	330	290	330	321	351	366	321	291	299	333	327
19	306	327	320	320	319	360	360	324	292	292	315	324
20	308	310	340	310	324	341	357	327	295	288	312	311
21	313	270	330	360	329	321	363	329	292	285	312	312
22	316	280	319	347	288	326	356	345	289	288	312	316
23	314	290	310	344	313	333	399	372	333	286	312	311
24	293	300	330	332	333	333	370	350	320	283	309	306
25	286	290	333	329	333	333	353	334	304	278	312	320
26	298	260	337	324	339	326	367	329	293	307	315	320
27	311	270	336	330	340	321	373	322	295	303	309	308
28	306	280	346	311	337	320	388	326	292	318	302	307
29	307	280	338	328	321	310	372	327	289	322	303	313
30	314	270	342	338	---	299	362	324	287	344	297	313
31	320	---	352	340	---	304	---	323	---	306	304	---
TOTAL	9235	9274	10263	9613	9259	10046	10401	10459	9060	9503	9815	9467
MEAN	298	309	331	310	319	324	347	337	302	307	317	316
MAX	320	340	380	370	343	360	399	372	333	431	453	339
MIN	276	260	270	230	260	295	304	313	278	278	297	302
AC-FT	18320	18390	20360	19070	18370	19930	20630	20750	17970	18850	19470	18780

CAL YR 1975 TOTAL 113337 MEAN 311 MAX 390 MIN 230 AC-FT 224800
WTR YR 1976 TOTAL 116395 MEAN 318 MAX 453 MIN 230 AC-FT 230900

06777000 MIDDLE LOUP RIVER NEAR MILBURN, NE

LOCATION.--Lat 41°49'02", long 99°58'15", in NE1/4SW1/4 sec.3, T.21 N., R.23 W., Blaine County, Hydrologic Unit 10210003, at Laughran bridge 9 mi (14 km) upstream from Rifle Creek and 15 mi (24 km) northwest of Milburn.

DRAINAGE AREA.--3,690 mi² (9,560 km²), approximately, of which 135 mi² (350 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--Water year 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

				SPE- CIFIC CON- DUCT- ANCE									
DATE		TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	(MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)					
OCT													
09...		1100	784	176	7.6	9.0	10	11.5					
15...		1120	772	178	7.9	10.0	9	11.5					
30...		1130	797	177	7.5	9.5	10	11.5					
NOV													
04...		1055	737	176	7.8	11.5	15	11.3					
12...		1400	768	170	8.0	3.0	15	12.9					
DEC													
29...		1110	824	165	7.6	1.0	25	13.9					
FEB													
03...		0930	831	163	7.8	4.0	25	11.4					
MAR													
16...		1505	804	226	7.9	10.5	15	9.5					
APR													
05...		1535	687	173	7.3	19.5	15	9.3					
MAY													
18...		1330	736	172	7.8	19.5	15	7.6					
JUN													
07...		1530	672	180	7.6	25.0	15	6.7					
JUL													
09...		1035	716	172	7.5	23.0	25	7.4					
12...		1015	689	178	7.6	26.0	15	7.3					
20...		0930	684	177	7.5	22.0	20	6.9					
28...		1040	745	167	7.7	21.5	20	7.6					
AUG													
02...		1100	766	175	7.4	21.0	25	7.9					
10...		1430	705	174	7.2	29.5	15	6.3					
19...		1150	738	183	7.4	24.5	30	7.8					
23...		1100	717	180	7.4	23.5	10	7.8					
31...		0920	683	178	7.6	19.0	10	7.4					
SEP													
07...		1040	672	170	7.5	19.0	15	7.9					
15...		1105	699	171	7.5	17.5	15	8.1					
22...		1420	710	172	7.4	21.0	20	7.9					
DATE		TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA+MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	
FEB													
03...		0930	6	66	0	21	3.2	6.8	.4	5.7	99	0	
JUL													
20...		0930	17	71	0	22	3.9	7.0	.4	5.9	101	0	
DATE		TIME	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SiO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB													
03...		81	7.1	.9	.3	57	154	346	.21	.76	.22	20	
JUL													
20...		83	8.5	.0	.3	58	157	290	.21	.38	.16	30	

PLATTE RIVER BASIN

06778500 MIDDLE LOUP RIVER NEAR CONSTOCK, NE

LOCATION.--Lat 41°28'49"N, long 99°12'43"W, in NE1/4NE1/4NE1/4 sec.1, T.17 N., R.17 W., Custer County, Hydrologic Unit 10210003, at bridge on Custer-Valley County line 0.3 mi (0.5 km) downstream from diversions for canals 3 and 4, 1.3 mi (2.1 km), south of Burlington Northern Inc. crossing, and 5.5 mi (8.8 km) southeast of Constock.

DRAINAGE AREA.--4,650 mi² (12,000 km²), approximately, of which 430 mi² (1,114 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--Water year 1969 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT							
01...	1445	318	192	7.9	15.5	10	11.1
09...	1510	308	190	7.7	13.5	10	11.1
15...	1500	366	196	7.9	13.0	10	11.4
30...	1440	762	186	7.5	10.5	15	11.4
NOV							
06...	1030	710	189	7.9	11.5	35	10.6
10...	1405	901	195	7.8	7.0	20	12.5
JAN							
14...	1525	986	181	7.9	.5	9	11.3
FEB							
04...	1130	1090	180	7.8	.5	10	10.8
MAR							
17...	1550	972	247	7.8	11.0	25	9.8
APR							
06...	1300	856	187	7.6	14.0	20	9.1
MAY							
20...	1440	143	194	7.6	25.0	4	7.8
JUN							
09...	1435	256	199	7.6	25.0	8	8.0
JUL							
09...	1350	29	219	7.6	29.5	10	7.5
12...	1440	54	215	7.5	31.5	20	7.3
22...	1045	32	251	7.5	25.0	10	8.7
28...	1410	69	253	8.1	30.5	50	7.2
AUG							
02...	1605	49	193	7.4	24.5	40	8.0
12...	1500	60	206	7.3	29.5	15	8.6
19...	1640	82	195	8.1	28.5	20	8.0
23...	1605	82	201	7.4	28.0	20	7.8
SEP							
02...	1610	95	197	7.4	26.0	15	7.7
07...	1330	68	202	7.9	24.0	15	7.9
13...	1440	143	187	7.2	22.0	10	8.5
23...	1520	164	204	7.7	17.5	9	9.2

DATE	TIME	COLOR (PLATINUM-COBALT UNITS) (00080)	HARDNESS (CA, MG) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (00915)	DISSOLVED MAGNESIUM (MG) (00925)	DISSOLVED SODIUM (NA) (00930)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (00935)	BICARBONATE (HCO3) (00440)	CARBONATE (CO3) (00445)
FEB											
04...	1130	5	83	0	27	3.9	7.0	.3	6.0	109	0
JUL											
22...	1045	18	110	0	35	5.0	7.5	.3	6.8	147	0

DATE	ALKALINITY AS CaCO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	DISSOLVED FLUORIDE (F) (MG/L) (00950)	DISSOLVED SILICA (SiO2) (MG/L) (00955)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DISSOLVED SOLIDS PER DAY (70302)	DISSOLVED SOLIDS PER AC-FT (70303)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DISSOLVED PHOSPHORUS (P) (MG/L) (00666)	DISSOLVED BORON (B) (UG/L) (01020)
FEB											
04...	89	8.0	1.3	.3	51	161	474	.22	.56	.15	20
JUL											
22...	121	8.7	1.2	.3	58	195	16.8	.27	.02	.11	40

PLATTE RIVER BASIN

143

06779000 MIDDLE LOUP RIVER AT ARCADIA, NE

LOCATION.--Lat 41°25'20", long 99°08'10", in sec.26, T.17 N., R.16 W., Valley County, Hydrologic Unit 10210003, on left bank 80 ft (24 m) downstream from bridge on State Highway 70 at southwest edge of Arcadia.

DRAINAGE AREA.--5,040 mi² (13,100 km²), approximately, of which about 820 mi² (2,120 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--July 1937 to current year.

REVISED RECORDS.--WDR NE-72: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,146.30 ft (654.192 m) above mean sea level (levels by Bureau of Reclamation). Prior to Apr. 23, 1938, nonrecording gage at bridge just upstream at datum 1.23 ft (0.375 m) lower.

REMARKS.--Records poor. Middle Loup Public Power and Irrigation District began diversion above station Mar. 30, 1938. Farwell Irrigation District canal began diversion from river in November 1962 at point 8 mi (13 km) above station.

AVERAGE DISCHARGE.--14 years (1962-76), 637 ft³/s (18.04 m³/s), 461,500 acre-ft/yr (0.569 km³/yr) since diversion to Farwell Irrigation District canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge estimated, about 18,500 ft³/s (524 m³/s) June 22, 1947, gage height, 6.24 ft (1.902 m); maximum discharge computed, 9,700 ft³/s (275 m³/s) May 27, 1945, gage height, 5.12 ft (1.561 m); maximum gage height, 6.41 ft (1.954 m) Mar. 27, 1960, backwater from ice; minimum daily discharge, 6.0 ft³/s (0.17 m³/s) July 23, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 1,850 ft³/s (52.4 m³/s) July 3, gage height, 2.80 ft (0.853 m); maximum gage height, 4.52 ft (1.378 m) Jan. 9, backwater from ice; minimum daily discharge, 18 ft³/s (0.51 m³/s) July 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	740	640	780	1140	1000	1050	564	378	35	45	106
2	276	600	660	700	1120	960	975	499	561	60	52	92
3	200	740	740	600	1160	920	814	564	630	500	75	83
4	170	944	780	520	1100	840	772	512	616	700	72	74
5	150	754	760	560	960	400	744	551	365	660	48	68
6	150	740	740	480	740	600	772	577	353	200	46	62
7	160	796	780	420	700	800	856	444	403	100	73	61
8	182	811	840	480	800	1000	828	378	390	50	80	114
9	229	754	920	580	900	1200	856	458	256	27	63	297
10	208	825	1000	760	1100	1300	800	330	228	28	40	190
11	171	855	960	900	1200	1200	842	458	168	26	40	150
12	182	915	900	1000	1400	900	900	855	114	42	51	125
13	208	727	840	1040	1300	660	680	825	114	53	40	151
14	308	644	800	1040	1200	860	700	870	111	56	45	381
15	343	713	720	1040	1300	1000	900	522	256	58	57	249
16	319	782	620	1000	1450	1000	1200	630	192	172	62	205
17	382	870	540	1060	1400	800	1160	535	55	57	508	215
18	229	959	560	1160	1400	800	1100	378	85	41	154	201
19	240	900	700	1120	1220	900	960	210	85	31	83	212
20	252	200	740	1200	1200	940	1020	117	70	30	74	229
21	263	230	720	1180	1040	1000	915	172	49	31	74	212
22	274	300	700	1350	1250	840	1050	825	33	32	81	188
23	270	400	860	1300	1140	900	1080	974	77	28	77	165
24	744	540	960	1160	1140	944	945	1230	687	25	74	235
25	604	620	940	1080	880	870	800	974	825	18	74	429
26	520	640	940	1040	980	944	604	687	485	18	74	264
27	520	800	1000	1020	900	959	900	644	276	37	72	306
28	760	860	1040	920	920	840	975	319	111	67	74	384
29	800	900	960	980	940	1340	1070	202	57	55	81	333
30	800	660	1060	1100	---	1420	800	172	44	61	83	298
31	840	---	1000	1100	---	1050	---	197	---	36	77	---
TOTAL	11017	21219	25420	28670	31980	29187	27068	16673	8074	3334	2549	6079
MEAN	355	707	820	925	1103	942	902	538	269	108	82.2	203
MAX	840	959	1060	1350	1450	1420	1200	1230	825	700	508	429
MIN	150	200	540	420	700	400	604	117	33	18	40	61
AC-FT	21850	42090	50420	56870	63430	57890	53690	33070	16010	6610	5060	12060
CAL YR 1975	TOTAL	190934	MEAN	523	MAX	1550	MIN	18	AC-FT	378700		
WTR YR 1976	TOTAL	211270	MEAN	577	MAX	1450	MIN	18	AC-FT	419100		

PLATTE RIVER BASIN

06783000 MUD CREEK NEAR BROKEN BOW, NE

LOCATION.--Lat 41°22'30", long 99°35'10", in NW1/4SW1/4NW1/4 sec.11, T.16 N., R.20 W., Custer County, Hydrologic Unit 10210005, at bridge on State Highway 2, about 3 mi (5 km) southeast of Broken Bow.

PERIOD OF RECORD.--Water year 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
OCT											
21...	1230	1.0	598	7.2	13.0	60	6.8	--	8400	18000	45
NOV											
10...	1040	.67	842	7.9	6.0	15	6.6	41	3400	510	82
DEC											
02...	1200	.69	787	7.2	4.0	15	6.5	10	74000	4400	76
JAN											
14...	1205	1.0	694	7.3	1.0	8	6.1	--	53000	--	57
FEB											
24...	1145	1.9	632	7.4	6.5	20	5.6	13	12000	8000	33
MAR											
17...	1040	2.6	726	7.5	5.5	50	8.5	22	26000	7400	48
APR											
08...	1035	2.8	507	7.5	8.5	55	7.4	6.5	1100	4400	34
MAY											
20...	1030	1.6	786	7.1	20.0	25	5.6	25	2400	7200	81
JUN											
09...	1020	2.3	701	7.2	23.0	20	8.1	28	2900	4000	68
JUL											
22...	1245	1.4	672	7.3	27.0	30	6.2	39	500	1200	77
AUG											
11...	1100	1.9	628	7.3	24.0	45	5.4	--	4500	2800	65
SEP											
23...	1050	.96	801	7.3	14.0	45	6.4	28	419	1400	120

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	DISSOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DISSOLVED PHOSPHORUS (P) (MG/L) (00666)
OCT										
21...	410	.56	1.11	.11	3.7	.80	4.5	4.6	1.6	1.2
NOV										
10...	--	.68	.90	.14	3.6	9.4	13	13	2.6	2.3
DEC										
02...	497	.68	.93	.54	4.9	.00	4.9	5.4	3.6	2.9
JAN										
14...	457	.62	1.31	.51	8.0	3.0	11	12	2.7	2.7
FEB										
24...	--	.50	1.89	.50	5.0	3.3	8.3	8.8	2.1	2.0
MAR										
17...	365	.50	2.56	.60	5.1	--	--	--	2.3	2.0
APR										
08...	326	.44	2.46	.78	2.8	2.2	5.0	5.8	1.8	1.5
MAY										
20...	--	.66	2.20	4.7	.14	4.0	4.1	8.8	4.8	3.2
JUN										
09...	476	.65	2.96	1.7	.22	4.8	5.0	6.7	2.1	1.3
JUL										
22...	440	.60	1.66	.22	1.9	1.9	3.8	4.0	1.1	.71
AUG										
11...	--	.54	2.06	2.7	5.0	13	18	21	1.4	.87
SEP										
23...	539	.73	1.40	.45	1.8	6.2	8.0	8.5	1.8	.89

PLATTE RIVER BASIN

145

06783000 MUD CREEK NEAR BROKEN BOW, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
NOV 10...	1040	40	190	0	60	10	86	2.7	19	317
FEB 24...	1145	25	190	0	62	9.3	45	1.4	12	277
MAY 20...	1030	21	220	0	70	12	76	2.2	15	300
AUG 11...	1100	90	180	0	54	11	61	2.0	16	247

DATE	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
NOV 10...	0	260	32	.2	51	497	--	360	--	--
FEB 24...	0	227	30	.3	38	367	6	130	0	0
MAY 20...	0	246	32	.3	49	484	--	270	--	--
AUG 11...	0	203	29	.2	39	397	8	250	0	0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
NOV 10...	--	10	--	120	--	--	--	--	--	--
FEB 24...	2	40	2	180	.0	.0	.0	2	0	0
MAY 20...	--	20	--	110	--	--	--	--	--	--
AUG 11...	2	0	3	20	.0	.0	.0	2	0	0

PLATTE RIVER BASIN

06783500 MUD CREEK NEAR SWEETWATER, NE

LOCATION.--Lat 41°02'15", long 98°59'35", in NE1/4SE1/4 sec.3, T.12 N., R.15 W., Buffalo County, Hydrologic Unit 10210005, on right bank 12 ft (4 m) downstream from bridge on State Highway 2, 0.9 mi (1.4 km) southeast of Sweetwater, and 11.6 mi (18.7 km) upstream from mouth.

DRAINAGE AREA.--707 mi² (1,831 km²), of which 655 mi² (1,696 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--July 1946 to current year.

REVISED RECORDS.--WDR NE-72: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,013.69 ft (613.773 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are poor. Minor irrigation developments above station.

AVERAGE DISCHARGE.--30 years, 40.5 ft³/s (1.147 m³/s), 29,340 acre-ft/yr (36.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge estimated, about 27,000 ft³/s (765 m³/s) June 22, 1947, gage height, 23.20 ft (7.071 m); maximum discharge computed, 5,600 ft³/s (159 m³/s) June 24, 1968, gage height, 20.07 ft (6.117 m); no flow at times in 1955-56.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1929, that of June 22, 1947, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 824 ft³/s (23.3 m³/s) June 24 at 1400, gage height, 13.79 ft (4.203 m), no other peak above base of 550 ft³/s (15.6 m³/s); minimum daily, 0.56 ft³/s (0.016 m³/s) Aug. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	14	13	16	28	26	23	26	19	11	11	.66
2	8.3	14	14	13	27	26	24	25	18	13	10	1.4
3	8.0	15	16	12	26	18	23	24	18	94	11	1.2
4	8.5	14	18	11	24	19	22	23	19	26	6.8	2.6
5	5.7	14	18	12	22	25	22	22	18	23	3.5	4.0
6	6.8	13	16	11	25	27	22	20	17	24	4.1	4.2
7	7.5	13	16	10	27	28	22	22	16	22	8.1	2.2
8	9.2	13	17	10	30	30	22	20	14	17	11	5.5
9	9.4	13	18	11	34	25	22	20	14	12	19	6.4
10	8.8	14	18	12	36	24	23	20	14	8.7	13	7.3
11	9.6	14	18	13	33	25	23	20	13	7.3	6.5	8.1
12	11	14	17	13	35	24	23	21	13	4.9	1.4	9.3
13	11	14	16	14	38	23	22	21	9.9	4.5	.89	8.8
14	12	14	15	14	34	25	21	21	11	1.3	1.2	7.2
15	11	15	14	15	35	29	22	23	8.2	2.5	1.2	6.3
16	11	15	13	14	34	29	25	23	6.1	65	2.0	6.8
17	12	16	13	14	31	28	28	20	5.9	15	1.0	7.8
18	12	16	14	16	29	26	34	19	5.1	5.6	1.2	8.3
19	13	17	15	18	27	26	31	19	4.4	2.0	3.0	7.4
20	12	11	15	20	29	28	31	19	4.8	3.5	1.8	6.9
21	11	12	16	22	21	26	27	18	5.2	2.1	1.3	6.9
22	12	14	17	24	23	25	24	19	6.1	1.4	.58	7.5
23	12	15	17	23	29	24	22	20	23	11	.82	7.2
24	12	17	16	23	25	24	22	21	6.19	23	.78	6.9
25	13	16	17	21	22	22	21	23	134	5.8	.65	19
26	13	14	17	19	26	22	21	24	43	6.6	.66	39
27	14	13	16	22	29	21	22	25	25	1.7	.56	27
28	14	14	16	24	28	21	23	23	19	8.8	.68	16
29	14	14	17	27	27	24	24	21	15	16	1.2	9.7
30	14	12	18	26	---	24	24	19	13	18	.63	7.7
31	15	---	17	25	---	24	---	19	---	12	.69	---
TOTAL	339.6	424	498	525	834	768	715	660	1150.7	468.7	126.24	259.26
MEAN	11.0	14.1	16.1	16.9	28.8	24.8	23.8	21.3	38.4	15.1	4.07	8.64
MAX	15	17	18	27	38	30	34	26	6.19	94	19	39
MIN	5.7	11	13	10	21	18	21	18	4.4	1.3	.56	.66
AC-FT	674	841	988	1040	1650	1520	1420	1310	2280	930	250	514
CAL YR 1975	TOTAL	8668.40	MEAN	23.7	MAX	386	MIN	1.0	AC-FT	17190		
WTR YR 1976	TOTAL	6768.50	MEAN	18.5	MAX	619	MIN	.56	AC-FT	13430		

PLATTE RIVER BASIN

147

06784000 SOUTH LOUP RIVER AT ST. MICHAEL, NE

LOCATION.--Lat 41°01'53", long 98°44'25", in NE1/4NE1/4 sec.11, T.12 N., R.13 W., Buffalo County, Hydrologic Unit 10210004, 15 ft (5 m) upstream and 65 ft (20 m) right from right upstream corner of county highway bridge, 0.6 mi (1.0 km) northeast of St. Michael, and 3.4 mi (5.5 km) upstream from Sweet Creek.

DRAINAGE AREA.--2,350 mi² (6,090 km²), approximately, of which about 1,610 mi² (4,170 km²) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to current year.

REVISED RECORDS.--WDR NE-74: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,921.26 ft (585.600 m) above mean sea level, adjusted. Prior to June 22, 1947, water-stage recorder, and June 25 to Sept. 30, 1947, nonrecording gage, at site 40 ft (12 m) downstream at datum 2.00 ft (0.610 m) higher. Oct. 1, 1947, to July 3, 1958, nonrecording gage at site 40 ft (12 m) downstream at present datum. July 4, 1958, to Sept. 7, 1960, water-stage recorder at site 560 ft (171 m) upstream at present datum. Sept. 8, 1960, to June 24, 1968, water-stage recorder at site 60 ft (18 m) upstream at present datum. June 25 to Nov. 21, 1968, nonrecording gage at site 40 ft (12 m) downstream at present datum.

REMARKS.--Records good except those for winter period, which are poor. Minor irrigation developments above station.

AVERAGE DISCHARGE.--33 years, 241 ft³/s (6.825 m³/s), 174,600 acre-ft/yr (0.215 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge estimated, about 50,000 ft³/s (1,420 m³/s) June 22, 1947, gage height, 12.0 ft (3.66 m), present datum, from graph based on gage readings; maximum discharge computed, 27,500 ft³/s (779 m³/s) June 24, 1968, gage height, 11.00 ft (3.353 m); minimum daily, 6.6 ft³/s (0.19 m³/s) Aug. 30, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 882 ft³/s (25.0 m³/s) June 24, gage height, 5.05 ft (1.539 m); maximum gage height, 5.36 ft (1.634 m) on Feb. 4, backwater from ice; minimum daily discharge, 20 ft³/s (0.57 m³/s) Aug. 27-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	136	150	170	310	275	229	273	224	99	230	22
2	120	124	165	160	280	277	218	251	211	102	203	139
3	120	135	160	140	300	267	211	246	207	178	150	127
4	113	144	160	120	270	140	211	232	200	235	133	93
5	110	150	170	130	260	90	212	222	195	284	116	71
6	105	153	180	110	240	180	208	217	175	227	110	63
7	99	151	190	120	280	270	223	217	160	161	93	58
8	99	152	195	140	320	356	249	209	151	122	88	116
9	105	169	195	135	350	287	263	196	144	103	88	113
10	107	175	210	125	330	220	276	179	139	82	85	85
11	110	155	220	130	340	206	253	171	136	69	74	80
12	116	144	210	120	360	218	220	190	130	60	60	87
13	116	137	210	145	330	248	206	183	126	54	53	93
14	116	144	195	140	310	270	213	192	120	48	55	91
15	116	144	190	170	300	260	251	188	120	49	60	104
16	120	152	175	160	290	291	330	189	113	104	60	130
17	116	141	135	190	277	272	376	179	107	134	58	137
18	120	150	130	200	277	274	339	169	102	85	49	132
19	120	206	165	190	272	321	333	153	105	69	40	132
20	126	210	150	220	288	343	387	148	113	53	40	121
21	126	130	140	230	293	305	329	154	110	53	36	110
22	130	120	160	250	289	300	296	214	96	51	40	102
23	130	130	150	240	285	288	270	228	120	53	37	98
24	139	140	165	230	270	276	249	252	718	93	33	105
25	139	150	180	220	269	265	223	272	562	93	28	141
26	139	160	170	200	279	259	199	285	306	57	25	152
27	143	170	165	230	265	259	245	286	301	60	20	169
28	143	175	175	290	258	236	283	275	177	150	20	144
29	144	170	185	320	272	275	296	268	136	261	20	129
30	142	140	195	300	---	272	288	251	118	344	22	121
31	142	---	185	320	---	259	---	236	---	230	24	---
TOTAL	3787	4557	5425	5845	8464	8059	7886	6725	5622	3763	2150	3265
MEAN	122	152	175	189	292	260	263	217	187	121	69.4	109
MAX	144	210	220	320	360	356	387	286	718	344	230	169
MIN	99	120	130	110	240	90	199	148	96	48	20	22
AC-FT	7510	9040	10760	11590	16790	15990	15640	13340	11150	7460	4260	6480
CAL YR 1975	TOTAL	71916	MEAN 197	MAX 1930	MIN 37	AC-FT 142600						
WTR YR 1976	TOTAL	65548	MEAN 179	MAX 718	MIN 20	AC-FT 130000						

PLATTE RIVER BASIN

06784000 SOUTH LOUP RIVER AT ST. MICHAEL, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1946-53, 1974 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: June 1946 to June 1953.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily, 19,300 mg/L June 19, 1946; minimum daily, 13 mg/L Dec. 30, 31, 1951.

SEDIMENT LOADS: Maximum daily, 672,000 tons (612,000 tonnes) June 22, 1947; minimum daily, 6.1 tons (5.5 tonnes) Dec. 30, 31, 1951.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

				SPE- CIFIC CON- DUCT- ANCE									
DATE		TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	(MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)					
OCT													
01...		1405	122	356	8.2	15.5	45	14.4					
08...		1110	103	429	8.3	14.5	45	11.6					
16...		1130	121	398	7.8	12.0	45	11.7					
20...		1155	131	372	8.0	13.0	50	10.8					
29...		1050	141	390	8.0	7.5	45	12.5					
NOV													
05...		1100	149	394	7.6	11.0	40	11.5					
10...		1345	175	350	8.0	8.0	60	11.8					
19...		1115	195	361	7.9	4.5	60	12.2					
DEC													
03...		1100	157	391	7.6	1.0	15	10.8					
11...		1405	225	379	7.2	.5	25	12.9					
22...		1200	165	459	7.5	.0	15	12.3					
30...		1025	194	351	7.5	.0	15	13.3					
FEB													
04...		1035	278	379	7.5	.0	25	11.0					
MAR													
15...		1140	247	344	7.8	2.0	65	13.5					
APR													
06...		1310	207	481	8.2	14.0	40	11.1					
MAY													
18...		1120	172	378	8.3	18.0	45	10.9					
JUN													
09...		1125	145	371	8.2	25.0	50	7.9					
JUL													
07...		1055	164	342	7.9	23.0	160	7.0					
12...		1330	64	287	8.5	31.5	70	7.7					
19...		1410	68	332	8.3	30.5	60	8.2					
29...		1120	244	233	8.3	24.5	170	5.4					
AUG													
03...		1145	151	298	7.3	23.0	130	7.7					
10...		1130	92	373	8.0	25.0	60	8.8					
20...		1110	40	240	7.8	23.5	40	8.2					
24...		1420	37	326	7.3	30.0	35	7.8					
31...		1145	23	409	8.1	24.0	25	7.9					
SEP													
09...		1020	116	282	8.1	15.5	120	9.1					
14...		1335	89	354	7.3	25.0	35	9.1					
22...		1200	101	352	8.1	20.0	25	9.4					
29...		1200	128	330	7.9	14.0	65	9.5					
DATE		TIME	COLOR (PLAT- INUM- COBALT) (UNITS) (00080)	HARD- NESS (CA+MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	
FEB													
04...		1035	20	180	0	57	8.2	11	.4	9.3	231	0	
JUL													
19...		1410	25	150	0	47	6.8	12	.4	11	206	0	
DATE		TIME	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB													
04...		189	17	3.9	.3	42	267	200	.36	.89	.22	40	
JUL													
19...		169	14	4.2	.4	47	244	44.8	.33	.02	.13	40	

PLATTE RIVER BASIN

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06784200 SHERMAN RESERVOIR NEAR LOUP CITY, NE

LOCATION.--Lat 41°18'10", long 98°52'45", in SW1/4NW1/4 sec.1, T.15 N., R.14 W., Sherman County, Hydrologic Unit 10210003, in control house of outlet works of Sherman Dam, 5 mi (8 km) northeast of Loup City.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Mercury-column pressure gage read once daily. Datum of gage is at mean sea level.

REMARKS.-- Reservoir is formed by earthfill dam; closure date of dam, August 1960. First diversions from Middle Loup River, Nov. 8, 1962. Usable capacity, 65,237 acre-ft (80.4 hm³) between elevations 2,118.5 ft (646 m), sill of canal outlet works, and 2,162.3 ft (659 m), crest of spillway. Dead and inactive storage, 3,839 acre-ft (4.73 hm³) below elevation 2,118.5 ft (646 m). Figures given herein represent total contents. Water used for irrigation of Farwell Unit of Bureau of Reclamation.

CORRECTION.--Records of elevations and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 70,230 acre-ft (86.6 hm³) June 22, 1975, elevation, 2,162.7 ft (659.19 m); minimum observed since appreciable storage was attained, 10,010 acre-ft (12.3 hm³) Sept. 1, 1971, elevation, 2,128.4 ft (648.74 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 69,360 acre-ft (85.5 hm³) June 2-4, 13-19, elevation, 2,162.4 ft (659.10 m); minimum observed, 12,640 acre-ft (15.6 hm³) Sept. 7, 8, elevation, 2,131.4 ft (649.65 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.	30	2,144.7	29,690	-
Oct.	31	2,155.9	52,240	+22,550
Nov.	30	2,155.3	50,820	-1,420
Dec.	31	2,154.6	49,190	-1,630
CAL YR	1975	-	-	-6,230
Jan.	31	2,154.0	47,810	-1,380
Feb.	29	2,153.5	46,700	-1,110
Mar.	31	2,153.0	45,580	-1,120
Apr.	30	2,153.8	47,370	+1,790
May	31	2,162.0	68,210	+20,840
June	30	2,162.3	69,080	+870
July	31	2,151.5	42,380	-26,700
Aug.	31	2,134.8	16,130	-26,250
Sept.	30	2,146.0	31,870	+15,740
WTR YR	1976	-	-	+2,180

PLATTE RIVER BASIN

06785000 MIDDLE LCUP RIVER AT ST. PAUL, NE

LOCATION.--Lat 41°11'55", long 98°26'50", in NE1/4SW1/4NE1/4 sec.10, T.14 N., R.10 W., Howard County, Hydrologic Unit 10210003, on left bank at St. Paul, 450 ft (137 m) upstream from bridge on U.S. Highway 281 and 6 mi (10 km) upstream from confluence with North Loup River.

DRAINAGE AREA.--8,090 mi² (21,000 km²), approximately, of which about 3,130 mi² (8,110 km²) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1894 to September 1915, August 1928 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1036: 1943. WSP 1390: 1896, 1903, 1928(M), 1944. WDR NE-72: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,776.61 ft (541.511 m) above mean sea level. See WSP 1918 for history of changes prior to June 5, 1957.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation.

AVERAGE DISCHARGE.--69 years, 1,197 ft³/s (33.90 m³/s), 867,200 acre-ft/yr (1.07 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,000 ft³/s (2,040 m³/s) June 23, 1947, gage height, 12.69 ft (3.868 m), site then in use, present datum, from rating curve extended above 55,000 ft³/s (1,560 m³/s); minimum daily since 1929, 59 ft³/s (1.67 m³/s) July 10, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,690 ft³/s (105 m³/s) June 24, gage height, 5.05 ft (1.539 m); maximum gage height, 8.15 ft (2.484 m) Feb. 14, backwater from ice; minimum daily discharge, 120 ft³/s (3.40 m³/s) Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	580	1040	840	1200	1700	1430	1210	998	555	245	359	425
2	521	795	940	1040	1700	1360	1190	890	684	272	402	348
3	511	905	1100	900	1700	1300	1290	773	903	397	350	366
4	463	932	1140	780	1600	1000	1250	696	997	800	287	253
5	421	1210	1100	860	1600	700	1130	610	996	1030	283	197
6	391	1160	1060	760	1550	1000	1160	717	823	831	333	163
7	379	1230	1100	700	1300	1200	1090	695	625	548	369	120
8	330	1350	1140	800	1080	1400	1340	763	604	457	293	333
9	310	1440	1200	900	1140	1700	1300	578	591	309	294	459
10	319	1220	1300	1040	1500	1900	1230	637	528	235	288	479
11	389	947	1250	1100	1700	1950	1200	646	435	209	251	415
12	344	951	1200	1200	1900	1550	1070	688	373	174	200	342
13	324	1130	1140	1140	1700	900	1170	1030	342	145	184	318
14	368	1040	1060	1080	1750	1000	945	1140	310	145	276	286
15	402	997	960	1180	1850	1430	954	1110	273	178	263	424
16	437	1070	920	1160	1900	1430	1490	785	306	215	268	538
17	488	916	860	1350	1800	1270	1690	682	458	253	275	520
18	468	1050	800	1450	2000	1270	1640	705	393	332	238	477
19	490	1100	1100	1400	1660	1460	1480	583	180	234	534	392
20	439	680	1200	1500	1590	1430	1370	478	227	175	293	358
21	445	300	1160	1500	1760	1500	1360	864	215	143	215	343
22	440	320	1100	1700	1220	1350	1200	2540	185	143	199	339
23	447	330	1250	1650	1480	1180	1480	1870	288	170	194	299
24	501	380	1350	1500	1480	1200	1360	1260	1860	277	185	286
25	944	460	1300	1350	1550	1230	1160	1210	2230	180	185	1160
26	773	800	1300	1200	1130	1260	1060	1030	752	147	180	897
27	664	860	1450	1350	1350	1410	851	738	682	121	189	544
28	674	1000	1450	1600	1200	1250	867	891	647	234	194	462
29	865	1060	1400	1800	1150	1280	1130	846	501	396	170	481
30	860	940	1500	1700	---	1530	1300	552	338	614	168	470
31	882	---	1400	1800	---	1490	---	522	---	537	186	---
TOTAL	15869	27613	36070	38690	45040	41360	36967	27527	18301	10146	8105	12494
MEAN	512	920	1164	1248	1553	1334	1232	888	610	327	261	416
MAX	944	1440	1500	1800	2000	1950	1690	2540	2230	1030	534	1160
MIN	310	300	800	700	1080	700	851	478	180	121	168	120
AC-FT	31480	54770	71540	76740	89340	82040	73320	54600	36300	20120	16080	24780
CAL YR 1975	TOTAL	318604	MEAN	873	MAX	4920	MIN	145	AC-FT	632000		
WTR YR 1976	TOTAL	318182	MEAN	869	MAX	2540	MIN	120	AC-FT	631100		

PLATTE RIVER BASIN

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06785000 MIDDLE LOUP RIVER AT ST. PAUL, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1969 to current year.

WATER QUALITY DATA: WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

				SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)		PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)			
DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)										
OCT												
08...	1410	318		309	8.2	18.5	30	10.4				
16...	1440	457		317	7.7	13.0	35	11.0				
21...	1015	428		316	8.0	10.5	30	11.3				
29...	1545	920		277	7.9	10.5	65	11.2				
NOV												
05...	1435	1040		265	7.6	14.0	50	10.7				
13...	1130	1440		237	7.7	1.5	60	14.3				
18...	1330	1060		261	7.8	12.0	45	10.6				
DEC												
24...	1100	1390		303	7.2	.0	10	13.7				
29...	1300	1420		268	7.4	.0	10	13.4				
JAN												
11...	1030	792		340	7.1	.0	10	10.6				
15...	1220	1180		281	7.4	1.0	10	11.0				
FEB												
02...	1150	1690		250	7.1	.0	10	11.2				
MAR												
17...	1110	1540		278	7.7	7.0	60	11.0				
APR												
05...	1120	1090		265	7.8	14.0	40	9.6				
MAY												
20...	1400	455		287	8.2	25.5	25	8.0				
JUN												
07...	1105	598		303	8.1	23.0	25	8.0				
JUL												
07...	1400	511		287	8.1	26.5	100	7.4				
12...	1100	177		371	8.2	28.0	65	7.3				
19...	1105	249		315	8.0	26.5	60	7.7				
29...	1410	546		297	8.0	28.0	120	7.3				
AUG												
03...	1540	338		336	7.3	26.0	95	8.2				
12...	1225	202		339	7.9	28.0	45	8.1				
18...	1330	226		375	8.0	29.0	50	7.7				
24...	1105	192		340	7.3	25.5	40	8.3				
SEP												
02...	1115	328		271	7.7	23.0	45	7.4				
09...	1445	497		298	8.1	22.0	80	8.5				
14...	1030	293		329	7.4	20.5	30	8.9				
20...	1115	354		314	8.1	16.0	35	9.4				
29...	1435	514		318	8.0	18.0	35	8.8				
DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA+MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HC03) (MG/L) (00440)	CAR- BONATE (MG/L) (00445)	
FEB 02...	1150	15	120	0	37	6.2	8.5	.3	7.5	157	0	
JUL 19...	1105	32	150	0	46	7.6	12	.4	11	193	0	
DATE	TIME	ALKA- LINITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB 02...	129	10	2.2	.3	45	196	894	.27	.53	.20	30	
JUL 19...	158	16	3.7	.4	45	239	161	.33	.43	.26	40	

PLATTE RIVER BASIN

06786000 NORTH LOUP RIVER AT TAYLOR, NE

LOCATION.--Lat 41°46'37", long 99°22'45", in NE1/4SE1/4 sec.22, T.21 N., R.18 W., Loup County, Hydrologic Unit 10210006, on left bank 64 ft (20 m) downstream from bridge on U.S. Highway 183 and 0.4 mi (0.6 km) north of Taylor.

DRAINAGE AREA.--2,280 mi² (5,910 km²), approximately, of which about 180 mi² (470 km²) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1936 to current year.

REVISED RECORDS.--WSP 856: 1937. WSP 1310: 1939(M). WSP 1730: 1956-57(M). WSP 1918: 1952. WDR NE-72: Drainage area. WDR NE-75: 1974.

GAGE.--Water-stage recorder. Datum of gage is 2,248.21 ft (685.254 m) above mean sea level. Prior to Sept. 28, 1938, nonrecording gage at same site and datum. Sept. 28, 1938, to July 16, 1958, water-stage recorder at site 450 ft (137 m) upstream at same datum.

REMARKS.--Records fair except those for winter period, which are poor. North Loup Public Power and Irrigation District canal began diversion from river in April 1939 at point 5 mi (8 km) above station. Several smaller diversions above station for irrigation.

AVERAGE DISCHARGE.--39 years (1937-76), 458 ft³/s (12.97 m³/s), 331,800 acre-ft/yr (0.409 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,770 ft³/s (78.4 m³/s) June 14, 1951, gage height, 6.50 ft (1.981 m), but may have been greater during ice breakup Mar. 10, 1955; maximum gage height, 9.5 ft (2.90 m) Feb. 25, 1957, ice jam, from floodmarks; minimum daily discharge, 45 ft³/s (1.27 m³/s) July 26, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 935 ft³/s (26.5 m³/s) July 3, gage height, 4.94 ft (1.506 m); maximum gage height, 6.87 ft (2.094 m) Dec. 14, ice jam; minimum daily discharge, 110 ft³/s (3.12 m³/s) Nov. 21, Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	419	425	360	440	600	452	534	524	418	259	218	176
2	431	433	370	180	580	462	542	472	422	376	208	199
3	433	428	390	110	540	367	506	412	373	828	199	222
4	424	419	460	140	430	301	474	357	364	738	204	204
5	419	423	440	380	380	250	524	435	337	570	189	194
6	410	429	420	450	350	270	530	445	335	440	185	208
7	410	434	470	360	400	460	501	461	323	396	185	265
8	402	424	500	380	500	688	485	457	324	376	194	485
9	385	416	480	420	600	807	463	456	338	293	185	362
10	393	383	470	430	580	705	523	452	331	208	168	330
11	415	385	420	430	700	615	516	442	305	185	194	324
12	430	340	390	420	800	500	466	540	289	160	194	330
13	450	325	380	410	850	340	454	480	274	144	180	390
14	446	354	370	400	802	560	449	456	273	152	293	396
15	428	389	340	440	802	721	466	416	270	227	276	362
16	420	410	370	430	793	597	584	405	267	513	562	356
17	412	419	340	450	618	657	575	391	272	305	608	349
18	412	451	320	480	541	675	550	384	290	189	342	362
19	415	470	450	500	570	648	529	388	307	137	243	349
20	429	260	500	520	566	611	536	392	288	120	194	342
21	435	110	600	580	500	587	496	393	274	127	152	330
22	442	140	580	560	478	570	461	523	248	140	144	330
23	448	170	560	540	565	566	517	580	400	137	137	336
24	440	280	540	500	678	569	473	623	577	127	137	342
25	415	340	520	480	617	567	439	641	580	114	148	369
26	419	380	520	520	566	553	437	608	502	133	164	383
27	424	420	520	470	518	516	470	570	440	176	168	390
28	419	460	560	520	573	526	502	457	324	189	160	376
29	406	440	600	540	571	536	610	500	265	213	152	376
30	437	420	560	580	---	511	636	451	249	305	140	383
31	448	---	520	600	---	513	---	417	---	232	137	---
TOTAL	13116	11177	14320	13660	17068	16700	15248	14528	10259	8509	6660	9820
MEAN	423	373	462	441	589	539	508	469	342	274	215	327
MAX	450	470	600	600	850	807	636	641	580	828	608	485
MIN	385	110	320	110	350	250	437	357	248	114	137	176
AC-FT	26020	22170	28400	27090	33850	33120	30240	28820	20350	16880	13210	19480

CAL YR 1975 TOTAL 143221 MEAN 392 MAX 898 MIN 85 AC-FT 284100
WTR YR 1976 TOTAL 151065 MEAN 413 MAX 850 MIN 110 AC-FT 299600

06786000 NORTH LOUP RIVER AT TAYLOR, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1974 to current year.

WATER TEMPERATURES: July 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 317 micromhos Feb. 23, 1975; minimum daily, 81 micromhos Nov. 7, 1975.

WATER TEMPERATURES: Maximum, 29.0°C July 29, 1974; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 264 micromhos Mar. 1; minimum daily, 81 micromhos Nov. 7.

WATER TEMPERATURES: Maximum, 28.0°C June 10, 11, 12, July 18, Aug. 24; minimum 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	HARDNESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DIS-SOLVED CALCIUM (CA) (MG/L) (00915)	DIS-SOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
14...	1430	442	168	7.9	16.0	7	64	0	21	2.9
NOV										
04...	1415	421	165	7.6	13.5	5	64	0	21	2.9
DEC										
30...	1045	529	149	7.6	1.0	7	64	0	20	3.3
JAN										
26...	1315	549	141	7.8	.5	7	56	0	18	2.8
FEB										
17...	1330	603	149	7.8	7.0	18	59	0	19	2.9
MAR										
08...	1445	785	160	7.9	6.5	30	63	0	20	3.1
APR										
19...	1330	522	158	7.7	17.0	15	67	0	21	3.5
MAY										
13...	1430	476	168	7.6	15.5	2	77	0	25	3.5
JUN										
22...	1300	241	168	7.6	25.0	1	66	0	21	3.3
JUL										
13...	1435	162	179	7.5	30.5	12	69	0	22	3.5
AUG										
04...	1340	215	168	7.3	29.5	17	70	0	23	3.0
SEP										
16...	1010	358	163	7.5	18.0	8	66	0	21	3.3

DATE	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	DIS-SOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CaCO3 (MG/L) (00410)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS-SOLVED FLUORIDE (F) (MG/L) (00950)
OCT									
14...	6.6	.4	6.0	95	0	78	4.9	1.0	.4
NOV									
04...	6.3	.3	6.1	99	0	81	5.1	1.6	.3
DEC									
30...	6.1	.3	6.1	87	0	71	10	2.2	.3
JAN									
26...	13	.8	5.6	102	0	84	4.2	.6	.3
FEB									
17...	6.2	.4	6.0	85	0	70	5.2	.8	.4
MAR									
08...	6.2	.3	5.8	93	0	76	4.6	.8	.3
APR									
19...	6.5	.3	6.6	97	0	80	5.0	.9	.3
MAY									
13...	6.5	.3	5.1	99	0	81	6.2	1.1	.4
JUN									
22...	6.3	.3	6.2	99	0	81	3.1	2.7	.4
JUL									
13...	6.8	.4	6.7	108	0	89	6.2	1.2	.4
AUG									
04...	6.4	.3	6.1	99	0	81	5.9	.8	.4
SEP									
16...	6.3	.3	5.9	97	0	80	5.9	.1	.4

PLATTE RIVER BASIN

06786000 NORTH LOUP RIVER AT TAYLOR, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SILICA (SI02) (MG/L) (00955)	DIS-SOLVED (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS-SOLVED PHOSPHORUS (P) (MG/L) (00666)	DIS-SOLVED BORON (B) (UG/L) (01020)	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED MANGANESE (MN) (UG/L) (01056)
OCT									
14...	51	143	.19	171	.49	.12	20	10	10
NOV									
04...	54	148	.20	168	.41	.11	30	20	0
DEC									
30...	52	146	.20	209	.71	.14	20	50	0
JAN									
26...	52	159	.22	236	.68	.13	20	40	--
FEB									
17...	50	135	.18	220	.65	.14	30	30	0
MAR									
08...	55	145	.20	307	.76	.14	30	40	10
APR									
19...	50	143	.19	202	.25	.12	80	20	0
MAY									
13...	53	150	.20	193	.08	.10	30	20	0
JUN									
22...	58	150	.20	97.6	.02	.08	20	60	4
JUL									
13...	57	157	.21	68.7	.00	.06	30	40	0
AUG									
04...	57	152	.21	88.2	.01	.09	30	20	0
SEP									
16...	56	148	.20	143	.38	.12	20	10	0

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	118	150	158	163	264	187	184	202	168	168	212
2	169	122	147	153	177	205	178	179	182	168	167	176
3	169	147	146	168	171	209	193	184	178	168	177	202
4	166	148	174	173	168	211	194	178	176	167	179	194
5	164	256	149	155	176	211	197	193	174	160	178	175
6	164	171	146	153	172	211	183	178	180	167	182	160
7	170	81	145	160	180	180	174	181	188	167	184	181
8	169	118	150	165	145	180	179	180	180	169	180	195
9	168	94	114	158	144	161	171	172	180	173	180	164
10	169	84	144	163	144	160	172	185	181	178	181	173
11	170	88	144	172	145	160	174	180	179	164	184	171
12	165	125	140	178	148	161	172	175	179	181	185	169
13	164	134	146	177	161	161	173	175	174	194	185	168
14	164	132	146	171	165	166	171	174	182	191	186	180
15	166	170	150	143	173	181	173	190	182	175	159	174
16	165	123	147	148	168	182	174	194	182	176	154	178
17	165	170	142	146	163	182	191	176	190	144	158	172
18	164	162	153	145	166	182	169	188	188	167	186	223
19	164	143	144	147	168	182	174	192	181	173	172	190
20	164	136	142	142	170	178	166	173	186	175	179	172
21	164	128	151	150	173	176	164	214	179	178	170	172
22	165	136	150	144	171	183	172	205	171	169	161	173
23	162	132	146	148	172	174	168	244	181	182	183	173
24	164	140	140	152	172	162	173	228	180	202	182	201
25	169	142	144	143	173	189	171	224	189	184	189	228
26	166	133	146	141	176	190	170	216	190	184	198	174
27	164	138	145	145	175	190	171	168	177	172	188	169
28	162	146	142	143	172	189	165	170	176	174	182	172
29	162	143	149	144	174	192	170	169	182	167	158	170
30	163	149	149	152	---	190	178	174	190	166	193	167
31	162	---	154	156	---	188	---	166	---	164	179	---
MONTH	165	137	146	155	166	185	176	187	182	173	178	181
YEAR	MAX	264	MIN	81	MEAN	169						

PLATTE RIVER BASIN

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06786000 NORTH LOUP RIVER AT TAYLOR, NE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

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

PLATTE RIVER BASIN

06787500 CALAMUS RIVER NEAR BURWELL, NE

LOCATION.--Lat 41°48'35", long 99°10'56", in NW1/4NW1/4 sec.9, T.21 N., R.16 W., Garfield County, Hydrologic Unit 10210008, on left bank 130 ft (40 m) downstream from highway bridge, 1.5 mi (2.4 km) upstream from mouth, and 3 mi (5 km) northwest of Burwell.

DRAINAGE AREA.--1,060 mi² (2,750 km²), approximately, of which about 110 mi² (280 km²) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 1918: 1958. WDR NE-72: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,156.48 ft (657.295 m) above mean sea level (levels by Bureau of Reclamation). Prior to Apr. 20, 1945, nonrecording gage at site 130 ft (40 m) upstream at present datum. Apr. 21, 1945, to Jan. 28, 1964, water-stage recorder at site 170 ft (52 m) downstream at present datum.

REMARKS.--Records fair except those for winter period, which are poor. Diversions for irrigation above station.

AVERAGE DISCHARGE.--36 years, 299 ft³/s (8.468 m³/s), 216,600 acre-ft/yr (0.267 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft³/s (50.7 m³/s) May 4, 1964, gage height, 4.35 ft (1.326 m); maximum gage height, 5.90 ft (1.798 m) Jan. 26, 1967, backwater from ice; minimum daily discharge, 54 ft³/s (1.53 m³/s) Dec. 5, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 463 ft³/s (13.1 m³/s) Mar. 15, gage height, 3.50 ft (1.067 m); maximum gage height, 4.46 ft (1.359 m) Jan. 21, backwater from ice; minimum daily discharge, 90 ft³/s (2.55 m³/s) Nov. 21, Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	269	276	280	300	290	320	305	356	281	288	268	257
2	270	276	290	150	287	303	305	336	275	326	267	257
3	277	281	300	90	285	280	289	314	276	375	263	252
4	280	280	330	130	291	302	298	308	268	393	258	245
5	280	285	320	200	273	190	299	302	264	364	251	249
6	272	287	290	280	266	220	304	291	263	348	251	248
7	266	285	340	220	325	260	305	289	263	326	253	255
8	263	279	370	240	335	378	307	293	259	311	255	338
9	263	292	375	260	337	366	302	293	255	298	254	297
10	263	293	368	280	328	341	302	293	254	284	249	285
11	263	292	349	310	329	344	294	290	250	271	260	289
12	264	276	338	300	340	313	285	328	246	267	267	283
13	272	272	322	290	348	222	289	307	236	258	268	282
14	272	276	292	280	357	298	289	294	236	254	298	285
15	272	285	254	310	360	425	290	289	239	262	289	274
16	272	291	300	300	385	439	330	280	243	277	349	274
17	272	292	270	330	367	390	331	272	247	287	378	274
18	276	300	240	340	354	390	319	274	245	289	330	274
19	272	320	320	350	344	390	315	272	251	282	297	271
20	272	200	300	370	339	380	322	272	251	270	282	267
21	276	90	330	340	295	359	323	278	248	267	265	274
22	272	100	320	330	273	343	322	289	243	263	259	273
23	276	130	310	320	300	336	335	325	315	258	254	274
24	276	220	293	304	310	321	341	341	417	254	247	280
25	272	260	284	287	316	313	316	346	364	251	247	284
26	276	280	283	272	318	308	321	340	336	252	243	286
27	272	320	278	262	328	305	336	325	326	264	234	285
28	276	340	293	256	339	311	362	310	311	268	237	285
29	276	340	306	269	331	322	384	290	298	279	245	288
30	272	320	301	284	---	315	381	280	288	282	247	284
31	276	---	300	287	---	309	---	278	---	278	250	---
TOTAL	8430	8038	9546	8541	9350	10093	9501	9355	8248	8946	8315	8269
MEAN	272	268	308	276	322	326	317	302	275	289	268	276
MAX	280	340	375	370	385	439	384	356	417	393	378	338
MIN	263	90	240	90	266	190	285	272	236	251	234	245
AC-FT	16720	15940	18930	16940	18550	20020	18850	18560	16360	17740	16490	16400

CAI YR 1975 TOTAL 102733 MEAN 281 MAX 464 MIN 90 AC-FT 203800
WTR YR 1976 TOTAL 106632 MEAN 291 MAX 439 MIN 90 AC-FT 211500

06787500 CALANUS RIVER NEAR BURWELL, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1972 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1971 to current year.

WATER TEMPERATURES: October 1971 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 221 micromhos May 17, 1972; minimum daily, 105 micromhos Aug. 13, 1976.

WATER TEMPERATURES: Maximum, 32.0°C June 30, 1973; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 194 micromhos May 1; minimum daily, 105 micromhos Aug. 13.

WATER TEMPERATURES: Maximum, 27.0°C July 20, Aug. 9, 12; minimum, 0.5°C on several days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (000061)	SPECIFIC CONDUCTANCE (MICROMHOS) (000095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	HARDNESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DIS-SOLVED CALCIUM (CA) (MG/L) (00915)	DIS-SOLVED MAGNESIUM (MG) (MG/L) (00925)	DIS-SOLVED SODIUM (NA) (MG/L) (00930)
OCT 14...	1105	271	138	7.8	12.5	--	6	--	--	--	--	--
NOV 03...	1320	284	145	7.7	14.0	3	6	55	0	17	3.0	5.9
DEC 16...	1115	364	165	7.7	.5	--	8	--	--	--	--	--
JAN 26...	1005	304	128	7.9	1.0	6	10	53	0	17	2.6	5.7
FEB 17...	0945	359	132	7.6	5.0	--	15	--	--	--	--	--
MAR 08...	1050	413	128	7.9	5.0	15	25	54	0	17	2.8	5.4
APR 19...	1020	317	140	7.8	13.0	15	10	56	0	17	3.3	6.2
MAY 13...	1010	306	140	7.6	11.5	7	10	56	0	18	2.6	5.3
JUN 22...	0950	236	140	7.8	20.5	2	10	54	0	17	2.7	5.4
JUL 13...	1205	257	142	7.7	26.0	7	10	54	0	17	2.8	5.8
AUG 04...	1015	257	140	7.5	22.0	12	10	58	0	19	2.5	5.9
SEP 15...	1500	270	138	7.5	20.5	8	7	53	0	17	2.6	5.8

DATE	SODIUM ADSORPTION RATIO (00931)	DIS-SOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CaCO3 (MG/L) (00410)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS-SOLVED FLUORIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SiO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)
OCT 14...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 03...	.3	4.9	83	0	68	3.6	.3	.2	47	136	.19	104
DEC 16...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 26...	.3	4.6	83	0	68	3.9	.3	.2	50	128	.17	105
FEB 17...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 08...	.3	4.4	77	0	63	3.5	.7	.2	48	122	.17	136
APR 19...	.4	5.0	84	0	69	3.7	.5	.2	44	123	.17	105
MAY 13...	.3	4.6	82	0	67	3.9	1.2	.2	37	113	.15	93.4
JUN 22...	.3	4.4	81	0	66	.8	2.6	.3	49	123	.17	78.4
JUL 13...	.3	4.5	84	0	69	4.1	1.2	.3	49	127	.17	88.1
AUG 04...	.3	4.5	81	0	66	3.3	.8	.3	48	125	.17	86.7
SEP 15...	.3	4.9	81	0	66	5.4	.0	.3	47	124	.17	90.4

06787500 CALAMUS RIVER NEAR BURWELL, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
OCT 14...	--	--	--	--	--	--	--	--	--	--	--
NOV 03...	.41	--	.02	.40	.42	.83	.14	.13	30	30	--
DEC 16...	--	--	--	--	--	--	--	--	--	--	--
JAN 26...	--	.72	--	--	--	--	--	.16	9	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	--
MAR 08...	--	.55	--	--	--	--	--	.13	20	--	--
APR 19...	--	.26	--	--	--	--	--	.15	90	--	--
MAY 13...	.32	--	.01	.52	.53	.85	.19	.18	20	40	20
JUN 22...	--	.19	--	--	--	--	--	.12	10	--	--
JUL 13...	--	.24	--	--	--	--	--	.13	20	--	--
AUG 04...	--	.17	--	--	--	--	--	.13	20	--	--
SEP 15...	--	.34	--	--	--	--	--	.13	20	--	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	140	145	152	153	140	150	194	146	142	172	148
2	145	138	140	143	139	128	151	144	145	144	144	150
3	146	138	143	141	143	139	148	146	146	145	143	145
4	145	138	145	141	139	134	150	144	144	143	124	143
5	146	140	148	141	140	139	155	144	144	144	144	145
6	146	140	148	144	140	139	146	144	145	144	143	147
7	146	140	148	145	140	133	151	144	143	150	142	148
8	145	140	148	141	141	129	148	144	145	144	145	146
9	146	140	148	144	139	174	146	146	143	143	145	143
10	145	139	148	141	136	153	146	145	142	143	144	146
11	146	139	158	139	140	144	152	146	145	143	145	150
12	145	139	149	138	156	145	144	144	144	144	130	149
13	145	138	136	139	139	138	144	148	141	145	105	146
14	144	138	136	137	140	144	144	147	142	145	140	142
15	146	141	139	137	139	144	148	144	143	145	125	146
16	143	141	139	137	138	139	145	145	142	143	132	145
17	141	140	138	140	139	145	145	145	142	145	129	147
18	143	139	137	151	139	143	145	144	144	146	114	138
19	142	140	138	143	140	144	144	145	143	148	146	144
20	142	141	138	144	142	148	146	144	142	147	143	146
21	142	138	138	143	140	145	164	144	143	150	136	145
22	143	136	137	146	138	148	153	142	142	144	133	144
23	142	135	138	148	138	146	149	143	141	146	138	145
24	140	133	138	142	140	146	144	145	144	146	140	148
25	138	144	137	146	138	152	143	147	144	143	139	146
26	137	138	137	142	140	147	143	146	142	152	143	151
27	137	138	138	145	138	149	144	146	144	148	147	144
28	138	139	138	142	138	148	141	146	142	145	144	145
29	137	140	138	143	138	148	144	145	144	145	142	144
30	137	140	138	143	---	149	146	149	143	144	145	146
31	138	---	139	144	---	148	---	145	---	146	139	---
MONTH	143	139	141	143	140	144	147	147	143	145	139	146

PLATTE RIVER BASIN

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06787500 CALAMUS RIVER NEAR BURWELL, NE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	6.5	1.5	1.5	3.5	7.5	9.5	12.0	22.0	26.0	25.5	22.0
2	14.5	6.0	1.5	0.5	4.5	7.0	9.0	12.5	18.0	25.5	25.0	22.0
3	15.0	6.5	2.5	1.0	4.0	6.5	10.0	13.5	18.5	25.0	26.0	22.0
4	14.0	5.5	2.5	1.0	1.0	3.5	10.5	10.5	19.0	26.0	25.5	20.0
5	16.0	6.0	3.0	0.5	0.5	2.0	10.0	12.0	20.0	26.0	26.0	23.0
6	14.5	5.5	1.5	2.0	2.0	5.0	11.0	13.0	20.5	26.5	26.0	25.0
7	14.0	5.0	2.0	1.5	4.0	6.5	11.0	13.0	20.0	25.0	25.0	21.0
8	14.5	7.0	4.5	1.0	4.5	8.0	11.0	12.5	21.5	26.5	26.5	18.0
9	14.0	10.0	2.0	0.5	5.0	4.5	10.5	13.0	24.0	24.5	27.0	16.0
10	13.5	5.0	1.5	1.5	4.5	5.5	11.0	13.5	22.5	26.5	26.0	16.5
11	13.5	5.5	1.0	2.5	5.0	6.0	11.5	12.5	21.0	25.0	26.0	20.0
12	13.0	5.0	1.0	3.0	5.5	4.5	11.0	14.0	20.5	25.0	27.0	20.0
13	13.5	5.0	2.5	1.0	4.5	9.0	11.5	14.5	23.5	25.5	25.5	19.0
14	12.5	5.5	1.5	0.5	5.0	6.5	12.0	15.0	19.0	26.0	26.0	18.0
15	12.0	5.0	2.0	1.5	5.0	6.5	11.0	14.5	25.5	25.5	25.0	19.0
16	12.5	5.5	1.0	1.0	5.5	7.0	12.0	14.0	23.5	26.0	25.5	18.5
17	11.0	5.0	1.0	0.5	5.5	7.0	13.0	14.5	24.0	25.0	24.5	18.0
18	12.0	4.5	1.5	1.0	5.0	7.0	12.0	15.0	24.5	26.5	25.5	20.0
19	11.0	5.0	1.0	1.5	5.0	7.5	11.0	14.0	23.5	26.0	25.0	16.0
20	11.5	4.5	1.5	1.0	4.5	8.0	11.5	15.0	24.0	27.0	25.5	14.0
21	12.0	5.0	1.0	1.5	1.5	8.0	12.0	15.0	25.0	25.5	26.5	15.0
22	10.5	4.0	2.0	2.5	1.5	8.0	12.5	15.0	24.0	26.0	25.5	18.0
23	10.5	2.5	2.5	3.0	4.0	8.5	12.0	15.5	23.5	26.5	26.0	15.0
24	11.0	2.0	4.5	2.5	5.5	8.0	11.5	16.0	24.5	25.5	24.0	14.0
25	10.0	1.0	2.5	3.5	6.0	8.5	12.5	16.5	23.5	25.0	24.0	15.0
26	9.5	1.0	2.0	1.5	6.0	9.0	9.0	16.5	24.0	25.0	26.0	14.0
27	9.5	1.0	2.0	2.5	6.5	8.5	9.5	17.0	23.0	25.5	20.0	10.0
28	8.5	1.5	1.5	4.5	7.0	9.5	8.5	17.0	25.0	25.5	19.5	10.5
29	8.0	1.5	4.5	4.5	6.5	9.0	11.5	17.5	24.5	26.0	22.5	11.5
30	8.5	1.5	1.5	3.5	---	9.5	12.5	22.0	26.0	26.0	24.0	14.5
31	8.5	---	2.5	4.0	---	10.0	---	21.5	---	26.0	23.5	---
MONTH	12.0	4.5	2.0	2.0	4.5	7.0	11.0	15.0	22.5	25.5	25.0	17.5

PLATTE RIVER BASIN

06788500 NORTH LOUP RIVER AT ORD, NE

LOCATION.--Lat 41°36'27", long 98°55'17", in SW1/4NW1/4 sec.22, T.19 N., R.14 W., Valley County, Hydrologic Unit 10210007, on right bank 150 ft (46 m) downstream from bridge on State Highway 70 at Ord.

DRAINAGE AREA.--3,750 mi² (9,710 km²), approximately, of which about 700 mi² (1,810 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--November 1936 to September 1938 (published as "near Ord"), June 1952 to current year.

REVISED RECORDS.--WSP 1730: 1957(M). WDR NE-74: Drainage area. WDR NE-75: 1974.

GAGE.--Water-stage recorder. Datum of gage is 2,012.14 ft (613.300 m) above mean sea level. Nov. 25, 1936, to Sept. 30, 1938, nonrecording gage at site 2 mi (3 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation. Flow includes return water from North Loup irrigation project.

AVERAGE DISCHARGE.--25 years (1937-38, 1952-76), 859 ft³/s (24.33 m³/s), 622,300 acre-ft/yr (0.767 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/s (286 m³/s) June 7, 1962, gage height, 5.52 ft (1.682 m); maximum gage height, 5.56 ft (1.695 m) Feb. 9, 1966, backwater from ice; minimum daily discharge, 100 ft³/s (2.83 m³/s) Jan. 3, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 1,900 ft³/s (53.8 m³/s) Feb. 12, backwater from ice; maximum gage height, 3.72 ft (1.134 m) Dec. 3, backwater from ice; minimum daily discharge, 100 ft³/s (2.83 m³/s) Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	827	748	740	840	1140	960	852	922	748	633	560	368
2	869	736	660	370	1060	900	842	849	734	703	563	390
3	843	730	880	100	940	800	846	833	724	948	520	403
4	837	734	1000	180	1040	600	834	736	678	1330	498	434
5	812	751	940	570	900	460	837	741	669	1010	470	436
6	835	786	880	910	740	500	846	755	647	888	435	424
7	817	806	860	940	620	800	868	744	632	779	432	439
8	806	818	940	840	800	1300	886	720	612	724	427	792
9	795	856	1140	780	960	1250	902	722	598	652	435	768
10	779	848	1250	900	1100	1220	886	744	572	542	407	661
11	786	838	1200	980	1400	1160	876	735	575	432	391	633
12	793	776	1180	940	1700	1020	865	882	492	422	477	638
13	806	756	1060	900	1600	753	845	840	500	368	402	604
14	828	749	700	880	1300	716	865	788	501	348	448	661
15	788	697	390	880	1250	919	891	800	498	382	507	654
16	789	740	450	860	1200	932	1080	755	526	462	557	652
17	801	777	370	860	1140	894	1060	754	540	874	916	661
18	814	796	450	880	1210	944	1060	747	540	610	739	660
19	821	840	640	860	1210	981	994	742	541	506	580	661
20	839	500	920	880	1170	968	1030	706	531	431	502	643
21	837	160	1040	940	1000	938	981	694	495	427	454	635
22	830	200	1060	1000	820	948	947	862	487	423	384	633
23	831	300	1040	940	840	942	936	999	689	410	377	622
24	868	450	1020	880	1000	927	951	999	1070	423	364	674
25	862	600	1060	780	960	914	881	1000	875	397	345	727
26	830	740	980	740	980	888	847	961	844	382	344	727
27	797	840	940	840	1000	888	897	930	769	404	341	751
28	772	900	900	900	1000	890	917	850	768	431	351	769
29	747	860	960	980	1020	990	954	761	668	546	343	769
30	726	820	1020	1200	---	901	957	810	673	573	331	766
31	741	---	960	1060	---	854	---	787	---	616	342	---
TOTAL	25126	21152	27630	25610	31100	28157	27433	25168	19196	18076	14242	18655
MEAN	811	705	891	826	1072	908	914	812	640	583	459	622
MAX	869	900	1250	1200	1700	1300	1080	1000	1070	1330	916	792
MIN	726	160	370	100	620	460	834	694	487	348	331	368
AC-FT	49840	41950	54800	50800	61690	55850	54410	49920	38080	35850	28250	37000
CAL YR 1975	TOTAL	281940	MEAN 772	MAX 1730	MIN 160	AC-FT 559200						
WTR YR 1976	TOTAL	281545	MEAN 769	MAX 1700	MIN 100	AC-FT 558400						

PLATTE RIVER BASIN

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06790500 NORTH LOUP RIVER NEAR ST. PAUL, NE

LOCATION.--Lat 41°15'35", long 98°26'50", in NW1/4NW1/4NE1/4 sec.22, T.15 N., R.10 W., Howard County, Hydrologic Unit 10210007, on right bank 310 ft (94 m) downstream from bridge on U.S. Highway 281, 3 mi (5 km) north of St. Paul, and 4 mi (6 km) upstream from confluence with Middle Loup River.

DRAINAGE AREA.--4,290 mi² (11,100 km²), approximately, of which about 1,240 mi² (3,210 km²) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1894 to September 1915, August 1928 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 976: 1942. WSP 1390: 1896. WDR NE-74: Drainage area. WDR NE-75: 1974.

GAGE.--Water-stage recorder. Datum of gage is 1,759.29 ft (536.232 m), adjusted, above mean sea level. See WSP 1918 for history of changes prior to Oct. 1, 1954.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by diversions and ground-water withdrawals for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--69 years, 967 ft³/s (27.39 m³/s), 700,600 acre-ft/yr (0.864 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,000 ft³/s (2,550 m³/s), estimated, June 6, 1896, gage height, 14.9 ft (4.54 m), from floodmark, datum then in use; minimum daily since 1931, 85 ft³/s (2.41 m³/s) Aug. 8, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,260 ft³/s (64.0 m³/s) June 24, gage height, 4.69 ft (1.430 m); maximum gage height, 5.64 ft (1.719 m) Feb. 13, backwater from ice; minimum daily discharge, 235 ft³/s (6.66 m³/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	772	937	1000	1100	1250	1210	868	1140	910	536	470	308
2	846	982	900	920	1160	1160	864	1100	872	548	400	337
3	806	979	1160	580	1100	1030	893	1000	817	695	367	356
4	768	931	1300	360	1300	1000	889	967	779	1080	332	360
5	756	854	1220	430	1240	490	859	873	724	1330	310	389
6	724	856	1120	670	1060	480	848	843	705	953	307	413
7	751	885	1120	1080	780	780	889	838	682	828	302	427
8	776	903	1160	1020	700	1600	948	855	672	687	297	583
9	794	1010	1220	1000	920	1450	940	831	637	593	302	834
10	794	986	1240	1140	1300	1400	924	803	647	502	302	735
11	806	949	1250	1300	1550	1310	878	778	623	388	293	690
12	794	988	1300	1220	1800	1200	861	907	594	324	276	667
13	818	912	1180	1100	1900	1000	858	1060	551	275	319	665
14	830	902	1080	1100	1600	986	858	1020	549	257	307	652
15	806	886	840	1040	1500	1220	872	931	530	251	341	704
16	782	879	600	1040	1400	1410	1010	882	531	253	414	672
17	806	886	460	1040	1300	1280	1170	820	560	261	455	706
18	794	898	430	1080	1350	1270	1210	766	565	562	777	724
19	794	940	560	1080	1310	1250	1140	730	562	428	641	738
20	794	1000	820	1120	1170	1220	1180	698	564	355	492	717
21	819	300	1000	1140	1130	1160	1110	737	537	312	420	681
22	826	260	1140	1160	970	1090	1090	846	506	296	377	678
23	852	350	1160	1200	886	1030	1040	1150	544	285	343	681
24	897	580	1180	1080	900	987	1020	1350	1720	286	312	719
25	912	700	1200	1000	1130	934	1070	1280	1460	252	303	815
26	928	860	1180	1000	1080	950	939	1200	983	235	298	778
27	896	940	1140	840	1100	891	1010	1140	878	262	297	751
28	879	1000	1140	960	1160	884	1110	1070	764	286	292	747
29	913	1040	1120	1200	1210	1050	1120	997	669	343	295	722
30	904	1020	1120	1300	---	1100	1140	880	569	434	292	730
31	924	---	1120	1200	---	898	---	934	---	461	282	---
TOTAL	25561	25613	32460	31500	35256	33720	29608	29426	21704	14558	11215	18979
MEAN	825	854	1047	1016	1216	1088	987	949	723	470	362	633
MAX	928	1040	1300	1300	1900	1600	1210	1350	1720	1330	777	834
MIN	724	260	430	360	700	480	848	698	506	235	276	308
AC-FT	50700	50800	64380	62480	69930	66880	58730	58370	43050	28880	22240	37640
CAL YR 1975	TOTAL	304252	MEAN	834	MAX	2720	MIN	203	AC-FT	603500		
WTR YR 1976	TOTAL	309600	MEAN	846	MAX	1900	MIN	235	AC-FT	614100		

PLATTE RIVER BASIN

06790500 NORTH LOUP RIVER NEAR ST. PAUL, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1946-53, 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1974 to current year.

WATER TEMPERATURES: July 1974 to current year.

SUSPENDED SEDIMENT DISCHARGE: April 1946 to June 1953.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 426 micromhos Jan. 18, 1976; minimum daily, 159 micromhos Jan. 18, 1976.

WATER TEMPERATURES: Maximum 33.0°C on several days during summer periods; minimum, 0.0°C on many days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily, 17,400 mg/L April 27, 1951; minimum daily, not determined.

SEDIMENT LOADS: Maximum daily, 463,000 tons (421,000 tonnes) June 22, 1947; minimum daily, 20 tons (18 tonnes) Aug. 3, 1946, Feb. 22, 1953.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 426 micromhos Jan. 18; minimum daily, 159 micromhos Jan. 24.

WATER TEMPERATURES: Maximum, 33.0°C on several days during summer period; minimum 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	HARDNESS (CA, MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DIS-SOLVED CALCIUM (CA) (MG/L) (00915)	DIS-SOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
21...	1430	786	209	7.6	14.5	2	91	0	28	5.0
NOV										
13...	1510	860	190	7.5	3.5	6	89	0	28	4.6
DEC										
30...	1550	1130	211	7.5	.0	6	97	0	31	4.7
JAN										
15...	1520	1020	200	7.0	.0	7	94	0	29	5.2
FEB										
05...	1515	1150	191	8.1	.5	8	91	0	28	5.0
MAR										
17...	1415	1220	210	7.5	10.0	25	89	0	28	4.7
APR										
05...	1435	840	218	7.6	17.0	10	87	0	28	4.1
MAY										
24...	1120	1350	248	7.4	13.0	35	110	0	32	6.3
JUN										
16...	1215	525	256	8.0	21.5	1	98	0	30	5.6
JUL										
27...	1320	281	259	8.0	27.0	25	110	0	37	5.4
AUG										
12...	1430	274	265	7.9	32.0	15	120	0	40	5.6
SEP										
20...	1430	715	195	7.9	20.0	5	92	0	28	5.4

DATE	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	DIS-SOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CaCO3 (MG/L) (00410)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS-SOLVED FLUORIDE (F) (MG/L) (00950)
OCT									
21...	7.7	.4	6.4	125	0	103	6.5	1.6	.3
NOV									
13...	7.2	.3	6.0	124	0	102	6.9	1.3	.3
DEC									
30...	7.3	.3	6.4	120	0	98	6.9	2.4	.3
JAN									
15...	7.2	.3	6.9	123	0	101	6.8	1.3	.3
FEB									
05...	7.7	.4	6.8	122	0	100	7.9	2.5	.3
MAR									
17...	7.8	.4	7.1	124	0	102	6.8	2.3	.2
APR									
05...	7.9	.4	7.6	129	0	106	7.1	2.0	.3
MAY									
24...	9.2	.4	9.5	142	0	116	11	4.8	.3
JUN									
16...	8.2	.4	6.7	146	0	120	6.2	1.7	.3
JUL									
27...	7.8	.3	7.4	149	0	122	9.6	1.9	.3
AUG									
12...	9.1	.4	8.2	163	0	134	11	2.1	.3
SEP									
20...	7.9	.4	6.7	123	0	101	7.9	1.5	.3

06790500 NORTH LOUP RIVER NEAR ST. PAUL, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
OCT									
21...	47	166	.23	352	.40	.13	20	20	20
NOV									
13...	51	169	.23	392	.58	.13	30	40	10
DEC									
30...	49	171	.23	522	.73	.14	20	90	10
JAN									
15...	54	175	.24	482	.83	.17	30	20	10
FEB									
05...	49	171	.23	531	.72	.16	20	40	0
MAR									
17...	47	167	.23	550	.51	.15	10	20	10
APR									
05...	51	174	.24	395	.61	.14	0	10	10
MAY									
24...	43	187	.25	682	.24	.58	80	100	10
JUN									
16...	55	186	.25	264	.03	.07	20	10	0
JUL									
27...	50	193	.26	146	.01	.03	30	10	0
AUG									
12...	54	211	.29	156	.00	.08	30	10	10
SEP									
20...	50	169	.23	326	.13	.11	30	10	0

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	218	272	229	224	229	247	242	224	246	252	283
2	225	211	266	246	213	213	237	232	225	236	250	260
3	216	210	263	234	226	228	227	223	228	236	262	270
4	223	210	251	277	213	241	225	227	230	225	250	261
5	221	211	310	270	229	262	223	233	257	217	258	256
6	221	211	218	267	246	300	226	233	243	200	259	252
7	222	210	228	261	247	257	222	237	236	203	264	247
8	220	210	205	256	240	226	229	232	236	209	268	227
9	221	204	223	254	232	214	223	230	239	219	270	236
10	222	202	214	253	213	228	221	227	238	227	272	216
11	246	217	215	257	195	213	225	225	233	240	271	220
12	222	212	217	233	220	186	223	224	236	253	278	226
13	235	214	213	230	211	262	218	231	243	279	262	222
14	216	214	203	228	205	240	221	235	247	307	256	222
15	218	218	240	223	201	229	218	229	246	280	257	216
16	218	215	236	230	198	215	234	232	252	273	253	215
17	216	213	279	217	203	222	252	234	239	279	235	212
18	215	214	249	426	203	220	242	231	240	243	227	222
19	215	225	226	226	211	225	232	237	251	229	210	220
20	213	239	260	220	216	221	228	226	264	242	222	226
21	213	250	290	221	211	223	228	239	278	259	242	224
22	212	266	167	216	217	224	222	249	236	262	250	223
23	212	274	240	215	226	224	219	260	237	260	261	222
24	212	296	226	159	217	224	218	272	264	266	268	217
25	210	290	212	220	216	225	220	265	243	270	269	218
26	212	282	230	233	215	225	219	253	248	284	272	221
27	213	270	214	219	215	223	219	233	236	265	280	225
28	215	255	255	247	215	220	224	228	230	228	279	222
29	213	349	183	226	221	217	231	230	212	215	280	221
30	214	266	212	219	---	239	229	226	204	245	276	224
31	213	---	202	223	---	273	---	222	---	240	275	---
MONTH	218	236	233	240	217	231	227	235	240	246	259	231

PLATTE RIVER BASIN

06790500 NORTH LOUP RIVER NEAR ST. PAUL, NE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	10.0	0.0	0.0	0.0	0.0	13.0	14.0	27.0	27.0	29.0	28.0
2	15.0	6.0	0.0	0.0	0.0	0.0	9.5	16.0	28.0	23.0	30.0	28.0
3	16.0	11.0	0.0	0.0	0.0	0.0	9.0	18.0	27.0	20.0	27.0	26.0
4	15.0	10.0	0.0	0.0	0.0	0.0	11.0	20.0	27.0	23.0	32.0	23.0
5	11.0	10.0	0.0	0.0	0.0	0.0	14.0	19.0	25.0	26.0	25.0	24.0
6	16.0	10.0	0.0	0.0	0.0	0.0	12.0	17.0	26.0	30.0	28.0	24.0
7	17.0	9.0	0.0	0.0	0.0	0.0	12.0	20.0	28.0	29.0	27.0	25.0
8	18.5	8.0	0.0	0.0	0.5	0.0	9.0	17.0	28.0	30.0	29.0	20.0
9	15.5	6.0	0.0	0.0	0.0	0.0	13.0	19.0	29.0	31.0	33.0	22.0
10	14.0	5.0	0.0	0.0	0.0	0.0	13.0	23.0	31.0	28.0	33.0	22.0
11	15.0	4.0	0.0	0.0	0.0	0.0	12.0	23.0	31.0	32.0	32.0	23.0
12	13.0	5.0	0.0	0.0	0.0	0.0	15.0	19.0	30.0	33.0	33.0	24.0
13	19.0	5.0	0.0	0.0	0.0	0.0	17.0	17.0	29.0	32.0	31.0	24.0
14	14.0	3.0	0.0	0.0	0.0	0.0	19.0	23.0	27.0	33.0	24.0	25.0
15	12.0	3.0	0.0	0.0	0.5	0.0	18.0	21.0	28.0	28.0	22.0	22.0
16	10.0	7.5	0.0	0.0	0.0	0.0	14.0	18.0	26.0	31.0	30.0	21.0
17	11.0	10.0	0.0	0.0	0.0	0.0	14.0	22.0	23.0	27.0	30.0	20.0
18	11.0	8.0	0.0	0.0	0.0	1.0	14.0	23.0	24.0	30.5	31.0	23.0
19	7.0	7.0	0.0	0.0	0.0	6.0	15.0	24.0	25.0	31.0	29.0	20.0
20	12.0	4.0	0.0	0.0	0.0	5.0	12.0	27.0	26.0	29.0	29.0	20.0
21	13.0	3.0	0.0	0.0	0.0	6.0	16.0	24.0	28.0	29.0	24.0	23.0
22	14.0	2.0	0.0	0.0	0.0	8.0	17.0	19.0	29.0	33.0	28.0	23.0
23	6.0	1.0	0.0	0.0	0.0	10.0	18.0	17.0	24.0	33.0	31.0	19.0
24	5.0	0.0	0.0	0.0	0.0	12.0	11.0	15.0	22.0	29.0	31.0	21.0
25	5.0	0.0	0.0	0.0	0.0	11.0	9.5	16.0	27.0	30.0	28.0	16.0
26	7.0	0.0	0.0	0.0	0.0	9.0	8.0	20.0	24.0	29.0	30.0	17.5
27	8.0	0.0	0.0	0.0	0.0	9.0	7.0	24.0	25.0	31.0	25.0	14.0
28	7.0	0.0	0.0	0.0	0.0	8.0	8.0	26.0	27.0	28.0	23.0	15.0
29	8.0	0.0	0.0	0.0	0.0	7.0	9.5	23.0	24.0	32.0	27.0	18.0
30	9.0	0.0	0.0	0.0	---	8.0	12.0	22.0	28.0	30.0	28.0	20.0
31	9.0	---	0.0	0.0	---	10.0	---	24.5	---	29.0	24.0	---
MONTH	12.0	5.0	0.0	0.0	0.0	3.5	12.5	20.5	27.0	29.0	28.5	21.5

PLATTE RIVER BASIN

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06791500 CEDAR RIVER NEAR SPALDING, NE

LOCATION.--Lat 41°42'41", long 98°26'48", in NE1/4NE1/4 sec.15, T.20 N., R.10 W., Greeley County, Hydrologic Unit 10210010, on left bank 15 ft (5 m) downstream from bridge on county road, 0.4 mi (0.6 km) upstream from small tributary, and 4.7 mi (7.6 km) northwest of Spalding.

DRAINAGE AREA.--762 sq mi, approximately, of which about 50 mi² (130 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1944 to September 1953, October 1957 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WDR NE-73: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,896.24 ft (577.974 m) above mean sea level. Prior to Jan. 4, 1961, at two sites 6.5 mi (10.5 km) upstream at different datum.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--28 years, 153 ft³/s (4.333 m³/s), 110,800 acre-ft/yr (0.137 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft³/s (113 m³/s) June 23, 1947, gage height, 7.50 ft (2.286 m), site and datum then in use, from rating curve extended above 640 ft³/s (18.1 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 30 ft³/s (0.85 m³/s) Jan. 30, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 932 ft³/s (26.4 m³/s) June 23, gage height, 5.06 ft (1.542 m); minimum daily, 76 ft³/s (2.15 m³/s) Nov. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	142	140	174	198	160	160	184	145	104	120	93
2	130	147	180	160	199	164	156	173	147	140	121	95
3	129	149	180	140	197	161	147	162	141	148	119	92
4	130	161	190	145	190	125	140	160	136	169	116	92
5	127	152	170	155	170	130	141	154	134	160	110	90
6	126	150	150	140	175	150	140	151	104	148	115	91
7	127	150	170	125	190	170	146	144	120	137	112	89
8	127	150	180	110	200	207	145	140	129	129	110	129
9	129	162	195	130	215	188	145	139	131	121	111	134
10	127	167	200	160	228	179	144	139	131	111	105	139
11	131	164	170	190	214	175	146	140	129	105	107	115
12	136	158	158	180	213	170	145	167	122	103	113	111
13	139	150	158	170	216	160	146	174	116	102	138	110
14	142	146	145	160	218	166	149	181	112	111	125	108
15	138	143	130	190	225	171	155	174	108	112	129	114
16	141	145	135	180	225	168	187	166	106	110	136	118
17	141	147	120	195	224	167	182	154	110	113	134	117
18	142	153	130	190	216	166	198	148	112	112	128	122
19	143	145	150	180	210	165	197	141	114	110	115	124
20	143	135	145	190	206	165	208	137	116	107	105	121
21	143	80	145	185	211	161	197	136	114	108	100	115
22	147	76	135	200	199	165	195	151	114	110	94	113
23	145	120	130	210	201	160	199	184	204	111	94	110
24	145	120	140	190	195	155	182	195	295	108	94	113
25	145	110	145	160	184	153	171	189	189	105	92	128
26	146	100	140	165	176	152	168	179	148	106	95	142
27	143	104	135	160	177	143	183	176	123	108	90	136
28	143	120	145	200	173	137	190	172	116	116	94	127
29	142	125	165	212	164	167	196	164	98	149	90	127
30	143	110	178	202	---	166	192	159	104	130	87	129
31	143	---	166	198	---	164	---	150	---	133	87	---
TOTAL	4267	4081	4820	5346	5809	5030	5050	4983	3968	3736	3386	3444
MEAN	138	136	155	172	200	162	168	161	132	121	109	115
MAX	147	167	200	212	228	207	208	195	295	169	138	142
MIN	126	76	120	110	164	125	140	136	98	102	87	89
AC-FT	8460	8090	9560	10600	11520	9980	10020	9880	7870	7410	6720	6830
CAL YR 1975	TOTAL	54479	MEAN 149	MAX 365	MIN 76	AC-FT	108100					
WTR YR 1976	TOTAL	53920	MEAN 147	MAX 295	MIN 76	AC-FT	107000					

PLATTE RIVER BASIN

06792000 CEDAR RIVER NEAR FULLERTON, NE

LOCATION.--Lat 41°23'45", long 98°00'15", in NE1/4NE1/4 sec.4, T.16 N., R.6 W., Nance County, Hydrologic Unit 10210010, near left bank on downstream side of pier of highway bridge, 3 mi (5 km) northwest of Fullerton and 7.2 mi (11.6 km), revised, upstream from mouth.

DRAINAGE AREA.--1,220 mi² (3,160 km²), approximately, of which about 480 mi² (1,240 km²) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1931 to June 1932, October 1940 to current year.

REVISED RECORDS.--WSP 1086: Drainage area. WSP 1390: 1932, 1941, 1943. WSP 1710: 1951(P), 1952(M), 1953, 1955(M).

GAGE.--Water-stage recorder. Datum of gage is 1,638.39 ft (499.381 m) above mean sea level. Prior to Nov. 5, 1942, nonrecording gage, Nov. 5, 1942, to June 23, 1947, water-stage recorder, June 24, 1947, to Apr. 6, 1948, nonrecording gage, Apr. 7, 1948, to Apr. 15, 1971, water-stage recorder, all at present site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by power developments, ground-water and surface-water withdrawals for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--36 years (1940-76), 240 ft³/s (6.797 m³/s), 173,900 acre-ft/yr (0.214 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,700 ft³/s (1,830 m³/s) Aug. 13, 1966, gage height, 16.90 ft (5.151 m), present datum, from high point on surge, from rating curve extended above 6,600 ft³/s (187 m³/s) on basis of flow-over-highway-embankment and contracted-opening measurement of peak flow; minimum daily, 30 ft³/s (0.85 m³/s) July 18, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,900 ft³/s (82.1 m³/s) June 24 at 1300, gage height, 5.82 ft (1.774 m), no other peak above base of 1,500 ft³/s (42.5 m³/s); minimum daily, 52 ft³/s (1.47 m³/s) Nov. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	168	130	200	210	223	246	254	229	146	132	84
2	108	149	160	190	200	228	227	259	227	159	137	82
3	146	157	185	160	210	204	221	224	210	224	100	87
4	135	169	200	110	190	111	226	223	192	329	108	93
5	130	190	200	170	170	100	220	215	187	300	72	84
6	128	174	185	150	195	140	212	201	170	239	62	99
7	126	166	200	140	220	200	214	197	170	187	75	92
8	124	153	220	155	250	250	213	207	136	178	84	131
9	138	212	235	170	230	294	213	188	165	155	80	130
10	126	214	250	180	220	242	226	187	166	130	63	145
11	147	207	180	170	230	218	220	183	156	114	65	145
12	142	206	185	220	240	239	214	209	149	109	58	144
13	133	180	190	190	250	210	204	220	133	89	77	129
14	171	175	160	170	250	212	193	212	153	92	114	130
15	143	199	120	240	250	217	200	204	145	95	156	143
16	141	198	150	180	245	241	246	214	134	122	135	137
17	123	197	140	195	245	234	257	193	147	101	123	147
18	160	200	170	205	240	215	262	175	132	109	123	155
19	152	220	220	185	230	227	248	180	145	100	116	136
20	176	150	190	150	225	239	307	168	122	101	73	141
21	165	58	200	155	215	225	292	212	133	77	73	143
22	163	52	190	175	226	217	298	511	111	92	70	140
23	170	135	180	210	235	223	267	446	149	121	80	138
24	179	125	190	190	250	223	287	369	1930	130	70	139
25	165	118	190	180	272	220	260	317	531	102	58	151
26	152	110	195	165	244	215	235	298	334	87	53	153
27	147	106	200	140	222	203	248	281	264	87	63	153
28	163	120	210	180	227	188	244	254	228	106	62	161
29	176	130	215	230	231	240	263	259	177	101	65	160
30	185	120	225	210	---	250	270	252	162	147	67	155
31	164	---	200	220	---	259	---	240	---	138	77	---
TOTAL	4614	4758	5865	5585	6622	6707	7233	7552	7287	4267	2691	3927
MEAN	149	159	189	180	228	216	241	244	243	138	86.8	131
MAX	185	220	250	240	272	294	307	511	1930	329	156	161
MIN	108	52	120	110	170	100	193	168	111	77	53	82
AC-FT	9150	9440	11630	11080	13130	13300	14350	14980	14450	8460	5340	7790
CAL YR 1975	TOTAL	69469	MEAN 190	MAX 714	MIN 52	AC-FT 137800						
WTR YR 1976	TOTAL	67108	MEAN 183	MAX 1930	MIN 52	AC-FT 133100						

06792000 CEDAR RIVER NEAR FULLERTON, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-59, 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1974 to current year.

WATER TEMPERATURES: July 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 366 micromhos Dec. 9, 1974; minimum daily, 201 micromhos Nov. 8, 1975.

WATER TEMPERATURES: Maximum, 36.0°C July 7, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 356 micromhos Jan. 4; minimum daily, 201 micromhos Nov. 8.

WATER TEMPERATURES: Maximum, 34.0°C July 15; minimum 0.0°C on many days during winter period.

WATER QUALITY DATA: WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	HARDNESS (CA, MG) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DIS-SOLVED CALCIUM (CA) (MG/L) (00915)	DIS-SOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
09...	1245	140	276	8.1	14.5	5	120	0	36	6.4
NOV										
18...	1215	181	285	7.3	11.0	12	120	0	37	6.7
DEC										
09...	1130	235	247	7.6	.5	15	110	0	34	6.1
JAN										
21...	1130	142	263	7.0	.5	7	100	0	32	5.3
FEB										
09...	1300	231	277	7.3	.5	8	120	0	39	6.5
MAR										
02...	1120	237	284	7.9	5.5	6	120	0	39	6.0
APR										
13...	1140	194	290	7.5	14.5	15	130	0	39	6.9
MAY										
06...	1215	201	296	7.2	15.0	8	130	0	41	7.0
JUN										
16...	0800	127	309	8.0	14.5	2	150	3	49	7.3
JUL										
07...	1130	190	282	7.6	24.0	22	130	0	41	6.0
AUG										
19...	1515	108	256	7.2	26.0	15	120	0	37	5.7
SEP										
07...	1625	90	269	7.8	23.5	10	120	0	40	5.8

DATE	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	DIS-SOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CaCO3 (MG/L) (00410)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS-SOLVED FLUORIDE (F) (MG/L) (00950)
OCT									
09...	7.9	.3	7.4	162	0	133	6.4	.8	.3
NOV									
18...	7.8	.3	7.6	166	0	136	9.3	1.6	.3
DEC									
09...	7.4	.3	10	146	0	120	6.9	2.2	.2
JAN									
21...	7.0	.3	6.6	148	0	121	7.1	1.7	.2
FEB									
09...	26	1.0	7.9	160	0	131	12	25	.3
MAR									
02...	7.8	.3	6.5	167	0	137	9.4	1.9	.3
APR									
13...	8.0	.3	7.4	179	0	147	7.2	1.6	.3
MAY									
06...	9.2	.4	7.7	182	0	149	9.4	2.4	.3
JUN									
16...	8.3	.3	6.9	182	0	149	6.1	.8	.3
JUL									
07...	7.0	.3	7.8	162	0	133	7.0	1.6	.3
AUG									
19...	7.6	.3	6.7	149	0	122	7.5	1.6	.4
SEP									
07...	8.2	.3	7.2	169	0	139	7.7	2.8	.3

PLATTE RIVER BASIN

06792000 CEDAR RIVER NEAR FULLERTON, NE--Continued

WATER QUALITY DATA: WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
OCT									
09...	33	178	.24	67.3	.00	.13	30	20	10
NOV									
18...	41	195	.27	95.3	.32	.20	30	0	5
DEC									
09...	40	181	.25	115	.38	.16	30	50	20
JAN									
21...	40	175	.24	67.1	.53	.21	20	0	20
FEB									
09...	39	237	.32	148	.49	.53	40	80	20
MAR									
02...	36	191	.26	122	.34	.18	50	10	10
APR									
13...	33	192	.26	101	.01	.16	30	0	10
MAY									
06...	32	199	.27	108	.06	.22	2	30	10
JUN									
16...	35	204	.28	70.0	.03	.25	50	20	0
JUL									
07...	32	183	.25	93.9	.01	.24	20	70	0
AUG									
19...	34	174	.24	50.7	.00	.26	40	20	0
SEP									
07...	32	188	.26	46.1	.01	.17	40	70	20

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	289	268	282	279	350	278	296	315	312	313	274	273
2	260	263	280	276	270	286	293	318	308	288	260	254
3	256	262	272	354	267	287	292	292	314	280	339	261
4	257	270	265	356	275	303	287	295	310	277	261	262
5	260	260	257	341	313	325	295	295	305	279	269	273
6	255	255	257	297	328	321	292	304	312	279	304	282
7	266	251	260	296	324	300	299	311	304	279	278	278
8	267	201	256	327	291	266	302	300	330	274	282	246
9	268	248	256	327	269	264	299	293	308	284	270	259
10	261	256	246	300	245	288	300	298	298	282	284	259
11	259	274	263	291	235	276	298	294	303	284	270	249
12	260	270	258	290	267	279	296	279	301	281	277	252
13	264	276	259	282	246	280	294	283	309	292	274	254
14	256	269	267	280	250	277	302	299	292	294	266	258
15	252	270	312	282	251	282	288	280	302	295	258	248
16	258	255	340	268	243	268	286	281	320	281	277	253
17	275	278	334	266	253	274	288	290	308	302	256	260
18	262	263	336	266	256	287	282	287	309	291	254	265
19	263	250	320	259	270	297	287	307	294	259	252	265
20	265	326	296	257	265	281	258	282	304	256	281	253
21	263	312	271	263	272	281	287	307	286	298	267	261
22	259	356	269	265	275	290	277	329	272	238	267	259
23	250	326	276	257	260	287	280	262	272	329	268	259
24	251	328	271	259	270	287	272	288	289	335	291	246
25	272	309	267	265	268	277	282	306	256	306	283	257
26	270	273	268	266	270	290	290	306	259	295	338	268
27	267	269	263	281	272	297	278	292	264	295	321	255
28	265	273	258	288	273	293	290	300	272	258	319	253
29	255	269	260	272	273	263	288	296	283	275	318	261
30	262	273	258	256	---	295	283	293	323	256	315	257
31	268	---	273	252	---	304	---	299	---	252	267	---
MONTH	262	275	276	284	272	287	289	296	297	284	282	259

PLATTE RIVER BASIN

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06792000 CEDAR RIVER NEAR FULLERTON, NE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.5	14.0	0.5	0.0	0.0	0.0	15.0	17.5	25.0	27.5	22.5	28.0
2	19.0	12.0	1.5	0.0	0.0	0.0	15.0	13.0	27.0	21.0	29.0	24.0
3	19.0	15.0	2.5	0.0	0.0	1.0	10.0	17.0	22.5	20.0	29.0	28.0
4	20.0	14.0	1.0	0.0	0.0	1.0	16.0	20.0	27.5	26.5	30.5	25.0
5	20.0	15.0	0.0	0.0	0.0	1.0	16.0	15.5	27.0	26.0	30.0	28.0
6	19.0	11.0	0.0	0.0	0.0	0.5	19.0	17.0	28.0	28.0	28.5	28.0
7	20.0	10.0	0.0	0.0	0.0	0.0	14.0	20.0	28.0	21.0	28.5	26.5
8	19.0	12.0	0.0	0.0	2.0	2.0	12.5	21.0	29.0	29.0	27.5	21.5
9	20.0	8.0	1.5	0.5	1.0	3.0	16.0	21.0	30.0	30.0	31.5	22.5
10	19.0	8.0	2.0	0.0	0.0	9.0	10.0	24.0	31.0	31.0	25.0	20.5
11	20.0	8.0	0.0	0.0	1.0	5.0	17.0	24.0	31.0	29.5	25.0	25.0
12	22.0	4.5	0.0	0.0	2.0	0.0	20.0	21.0	26.0	27.0	31.0	24.0
13	23.0	6.0	1.0	0.0	1.0	0.0	19.0	17.0	31.5	32.0	27.5	24.5
14	29.0	8.0	0.0	0.0	0.0	3.5	22.0	23.0	23.5	30.0	27.0	25.0
15	15.0	5.5	0.5	0.0	0.5	5.0	22.0	23.0	20.0	34.0	21.0	21.0
16	13.0	10.0	0.0	0.0	1.0	8.0	15.0	18.0	25.0	27.5	28.0	22.0
17	15.5	10.0	0.0	0.0	0.0	12.0	12.0	21.5	20.0	29.0	31.0	22.0
18	19.0	13.0	1.0	0.0	1.0	15.0	20.0	22.0	20.0	33.0	32.0	21.0
19	20.0	4.0	1.0	0.0	4.0	14.0	19.0	24.0	22.0	29.5	30.0	21.0
20	16.0	6.5	0.0	1.5	5.0	10.0	13.0	18.5	28.0	22.0	29.0	21.0
21	17.0	5.0	0.0	1.5	2.0	9.5	17.0	21.0	30.0	23.0	29.0	23.0
22	12.0	1.0	1.0	0.5	5.0	13.0	20.0	19.0	30.0	24.5	31.5	23.0
23	9.0	0.0	0.5	1.0	8.0	14.0	21.0	18.0	25.0	31.0	31.0	20.0
24	8.0	1.0	0.0	0.0	10.0	14.5	11.0	20.0	17.5	29.0	30.5	17.0
25	8.5	0.0	1.0	0.0	10.0	17.0	15.0	21.0	24.0	33.0	26.0	18.5
26	10.0	0.0	0.0	0.0	10.0	19.0	11.0	25.0	23.5	29.0	29.5	17.5
27	18.0	0.0	1.0	0.0	10.0	16.0	11.5	26.0	26.0	30.0	28.0	14.0
28	19.5	3.0	1.0	1.0	9.0	9.5	9.0	27.0	30.0	30.0	31.0	19.5
29	11.0	0.0	1.0	0.0	5.0	9.0	10.0	27.0	23.0	31.0	29.0	15.0
30	15.0	0.0	2.0	0.0	---	10.0	15.0	23.0	28.0	30.0	28.0	20.0
31	11.0	---	0.0	0.0	---	13.5	---	19.0	---	30.0	23.5	---
MONTH	17.0	7.0	0.5	0.0	3.0	7.5	15.5	21.0	26.0	28.0	28.5	22.0

PLATTE RIVER BASIN

06792499 LOUP RIVER POWER CANAL AT DIVERSION NEAR GENOA, NE
(National stream-quality accounting network station)

LOCATION.--Lat 41°23'31"N, long 97°49'20"W, in NE1/4NW1/4 sec.6, T.16 N., R.4 W., Nance County, Hydrologic Unit 10210009, at diversion structure, 2 mi (3 km) upstream from gaging station and 5.5 mi (8.8 km) southwest of Genoa.

PERIOD OF RECORD.--Water year 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1972 to current year.

WATER TEMPERATURES: October 1972 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 444 micromhos Dec. 11, 1972; minimum daily, 219 micromhos Dec. 29, 1972.

WATER TEMPERATURES: Maximum, 35.5°C July 21, 1974; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 372 micromhos Jan. 9; minimum daily, 221 micromhos Feb. 14.

WATER TEMPERATURES: Maximum, 31.5°C July 12, 22, 23; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA, MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)
OCT 08...	1430	1110	269	7.9	17.0	20	63	370	110	0
NOV 18...	1500	2530	250	7.7	11.0	35	3	400	100	0
DEC 09...	1530	330	260	7.6	.5	55	13	296	--	--
JAN 21...	1430	2020	263	6.7	.5	10	65	64	98	0
FEB 09...	1430	1500	292	7.5	.5	15	20	24	120	0
MAR 26...	1300	2090	276	7.3	10.0	34	14	120	110	0
APR 13...	1315	1920	268	7.6	17.0	14	--	12	110	0
MAY 25...	1800	2780	278	6.9	18.5	230	15300	1420	120	0
JUN 16...	1300	882	312	8.4	22.0	20	50	70	120	0
JUL 07...	1220	1680	256	7.3	25.0	50	240	108	110	0
AUG 19...	1620	912	272	7.8	25.5	45	110	73	110	0
SEP 07...	1700	647	284	7.9	22.5	25	113	224	130	0

DATE	DIS-SOLVED CALCIUM (CA) (MG/L) (00915)	DIS-SOLVED MAGNESIUM (MG) (MG/L) (00925)	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	DIS-SOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CAC03 (MG/L) (00410)	DIS-SOLVED SULFATE (MG/L) (00945)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)
OCT 08...	34	5.8	9.8	.4	7.6	153	0	126	13	1.5
NOV 18...	33	5.3	8.2	.4	7.2	144	0	118	8.1	1.8
DEC 09...	--	--	--	--	--	--	--	--	--	--
JAN 21...	31	5.1	8.1	.4	6.9	143	0	117	7.9	1.4
FEB 09...	38	6.3	9.5	.4	6.9	159	0	130	9.9	1.8
MAR 26...	35	5.7	9.6	.4	8.2	153	0	126	13	3.9
APR 13...	35	6.1	8.3	.3	7.9	158	0	130	9.6	2.1
MAY 25...	34	7.4	9.9	.4	9.7	153	0	126	11	3.5
JUN 16...	42	3.5	9.3	.4	7.8	179	0	147	6.7	2.1
JUL 07...	35	4.5	8.0	.3	7.9	134	0	110	12	2.3
AUG 19...	35	6.2	9.6	.4	8.4	152	0	125	11	3.0
SEP 07...	41	6.1	11	.4	9.3	175	0	144	9.3	4.0

PLATTE RIVER BASIN

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06792499 LOUP RIVER POWER CANAL AT DIVERSION NEAR GENOA, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUORIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SiO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)
OCT 08...	.3	42	187	189	.25	560	.01	1.1	1.1	.22
NOV 18...	.3	52	189	187	.26	1290	.65	2.1	2.8	.19
DEC 09...	--	--	--	--	--	--	--	--	--	--
JAN 21...	.3	48	193	179	.26	1050	.63	.49	1.1	.19
FEB 09...	.3	47	193	198	.26	782	.63	.61	1.2	.23
MAR 26...	.5	52	206	203	.28	1160	.60	.83	1.4	.28
APR 13...	.3	46	192	193	.26	996	.19	.89	1.1	.25
MAY 25...	.3	36	203	187	.28	1520	.54	2.2	2.7	.67
JUN 16...	.3	21	224	181	.30	533	.05	.75	.80	.26
JUL 07...	.3	43	180	179	.24	816	.03	1.1	1.1	.25
AUG 19...	.4	44	197	193	.27	485	.07	1.4	1.5	.44
SEP 07...	.3	43	213	210	.29	372	.01	1.3	1.3	.24

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CADMIUM (CD) (UG/L) (01027)	SUS-PENDED CADMIUM (CD) (UG/L) (01026)	DIS-SOLVED CADMIUM (CD) (UG/L) (01025)	TOTAL CHROMIUM (CR) (UG/L) (01034)	SUS-PENDED CHROMIUM (CR) (UG/L) (01031)	DIS-SOLVED CHROMIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS-PENDED COBALT (CO) (UG/L) (01036)
DEC 09...	1530	8	2	6	<10	<9	1	10	10	0	<50	<49
MAR 26...	1300	7	1	6	10	6	4	10	10	0	<50	<50
JUN 16...	1300	11	1	10	1	1	0	<10	0	<10	1	1
SEP 07...	1700	12	3	9	<10	<7	3	10	10	0	<50	<50

DATE	DIS-SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS-PENDED COPPER (CU) (UG/L) (01041)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	SUS-PENDED LEAD (PB) (UG/L) (01050)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MANGANESE (MN) (UG/L) (01055)	SUS-PENDED MANGANESE (MN) (UG/L) (01054)
DEC 09...	1	10	6	4	4200	0	<100	<97	3	130	120
MAR 26...	0	10	0	10	1500	10	<100	<95	5	70	60
JUN 16...	0	0	0	0	980	20	2	0	2	120	120
SEP 07...	0	20	17	3	2800	20	<100	<68	32	180	170

PLATTE RIVER BASIN

06792499 LOUP RIVER POWER CANAL AT DIVERSION NEAR GENOA, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	SUS- PENDE SELE- NIUM (SE) (UG/L) (01146)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS- PENDE ZINC (ZN) (UG/L) (01091)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
DEC 09...	10	.0	.0	.0	1	0	1	70	70	0	5.4
MAR 26...	10	.0	.0	.0	1	0	1	40	20	20	5.4
JUN 16...	4	<.5	.0	<.5	0	0	0	10	0	10	6.7
SEP 07...	10	.0	.0	.0	1	0	1	70	70	0	12

DATE	TOTAL PHYTO- PLANK- TON (CELLS PER ML) (60050)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI- PHYTON BIOMASS DRY WEIGHT G/SQ M (00573)	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL A MG/SQ M (32228)	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL B MG/SQ M (32226)
OCT 08...	28000	--	--	--	--
NOV 18...	18000	--	--	--	--
DEC 09...	6000	--	--	--	--
JAN 21...	1400	--	--	--	--
FEB 09...	2000	--	--	--	--
MAR 26...	13000	--	--	--	--
APR 13...	20000	4.10	6.60	14.0	.000
MAY 06...	--	7.23	8.54	16.2	.000
MAY 25...	35000	--	--	--	--
JUN 16...	73000	--	--	--	--
JUL 07...	130000	--	--	--	--
JUL 27...	--	6.54	8.15	.000	.000
AUG 19...	390000	--	--	--	--
SEP 07...	110000	--	--	--	--

06792499 LOUP RIVER POWER CANAL AT DIVERSION NEAR GENOA, NE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	260	291	264	258	271	281	290	285	333	278	319
2	263	254	289	267	260	253	278	283	295	266	290	312
3	283	250	278	279	250	263	277	285	291	287	288	298
4	257	253	278	298	251	277	272	285	292	300	299	297
5	258	247	264	321	259	286	268	284	286	297	300	307
6	259	249	270	325	269	290	270	291	286	255	310	294
7	262	257	270	362	284	297	268	290	287	247	310	294
8	263	253	258	371	276	290	265	292	288	255	308	292
9	266	244	254	372	268	250	260	286	298	262	308	265
10	264	235	248	352	268	246	266	286	290	270	319	266
11	266	246	253	344	246	261	265	295	288	285	327	265
12	267	255	249	330	232	254	272	291	295	295	327	265
13	263	259	249	306	224	260	267	278	300	313	316	265
14	265	250	261	296	221	262	265	285	308	320	321	266
15	259	254	273	291	227	264	266	280	309	318	297	266
16	261	254	281	280	221	256	259	281	314	327	297	265
17	263	254	323	274	225	259	259	280	313	324	298	261
18	262	254	344	260	223	265	267	282	304	320	292	252
19	260	239	329	255	232	265	262	285	307	308	281	264
20	263	230	318	253	240	264	261	284	301	287	281	267
21	261	244	316	250	245	267	265	293	300	291	270	269
22	261	281	298	249	250	258	271	290	298	301	281	269
23	263	339	284	247	254	260	271	256	298	281	296	275
24	262	337	280	244	261	263	266	248	234	314	300	270
25	259	360	273	246	252	263	267	285	259	321	317	260
26	261	349	265	253	246	266	264	291	247	298	321	270
27	254	320	261	259	251	263	259	291	245	319	330	254
28	256	312	258	257	253	256	265	294	247	328	333	261
29	256	292	251	254	252	249	266	288	263	303	332	268
30	259	292	253	252	---	268	271	285	258	281	328	268
31	252	---	250	253	---	274	---	292	---	285	327	---
MONTH	262	271	276	286	248	265	267	285	286	296	306	275

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	13.5	0.0	0.0	0.5	1.5	14.5	17.5	26.5	27.0	22.5	27.5
2	16.5	11.5	0.0	0.0	0.0	1.5	16.0	14.0	26.0	21.0	24.0	26.5
3	17.5	14.0	0.0	0.0	0.0	0.0	12.5	17.0	25.5	20.5	25.0	27.0
4	18.5	14.5	0.0	0.0	0.0	0.0	14.5	19.0	25.5	25.5	25.0	24.0
5	18.5	12.5	0.0	0.0	0.0	0.0	16.5	20.0	25.5	27.0	24.0	26.5
6	19.0	14.5	0.0	0.0	0.0	1.5	15.0	16.0	26.5	27.5	24.5	26.5
7	18.5	11.0	0.0	0.0	0.0	1.0	15.5	19.0	26.5	27.5	20.0	25.5
8	18.5	11.0	0.0	0.0	0.5	0.5	11.5	20.5	26.5	26.5	21.0	21.0
9	16.0	7.5	0.0	0.0	1.0	4.5	15.0	20.5	27.5	29.0	30.5	22.0
10	16.5	8.5	0.0	0.0	0.5	6.0	19.0	22.0	28.5	24.0	30.5	21.0
11	17.5	8.5	0.0	0.0	0.5	5.5	16.5	24.0	29.0	26.0	25.5	24.0
12	20.0	4.5	0.0	0.0	0.5	1.0	17.0	21.0	23.5	31.5	30.0	25.5
13	21.0	4.0	0.5	0.0	0.5	1.5	19.5	16.0	22.5	30.0	30.0	22.0
14	18.5	6.0	0.0	0.0	0.0	3.5	22.0	22.0	26.0	30.0	24.5	25.0
15	15.0	6.0	0.0	0.0	0.5	4.0	22.0	22.5	18.5	27.5	21.0	20.0
16	13.5	7.5	0.0	0.0	0.5	7.0	17.5	14.5	24.0	29.5	27.0	20.5
17	14.5	9.5	0.0	0.0	0.5	10.0	17.5	20.5	21.0	26.5	29.0	20.0
18	14.0	12.5	0.0	0.0	1.0	13.5	16.5	21.5	16.5	31.0	30.5	25.0
19	14.5	6.0	0.0	0.0	2.0	14.5	18.5	23.5	21.0	29.0	29.0	21.0
20	15.5	0.0	0.0	0.0	3.5	12.0	13.5	26.0	26.0	25.5	26.5	20.0
21	14.5	0.0	0.0	0.0	2.0	10.0	17.0	24.0	26.0	29.5	26.0	21.5
22	16.0	0.0	0.0	0.0	4.0	12.5	19.0	19.0	27.0	31.5	29.5	22.0
23	10.5	0.0	0.0	0.5	5.0	12.5	19.5	11.5	21.5	31.5	29.5	19.0
24	7.5	0.0	0.0	0.5	9.0	14.0	14.0	12.5	21.0	31.0	29.0	17.5
25	4.0	0.0	0.0	0.0	10.0	16.5	15.5	18.5	26.0	30.5	25.5	16.5
26	9.0	0.0	0.0	0.0	9.0	10.0	11.5	21.0	23.5	28.5	29.0	17.5
27	11.5	0.0	0.0	0.0	10.0	11.5	11.0	23.5	24.5	28.5	23.5	15.0
28	10.0	0.0	0.0	0.0	7.5	9.0	10.0	26.0	27.5	30.0	26.5	15.0
29	10.0	0.0	0.0	0.5	3.5	7.0	10.0	25.5	25.5	29.5	25.5	17.0
30	11.5	0.0	0.0	0.5	---	10.0	10.5	24.0	20.5	28.5	26.5	12.5
31	13.5	---	0.0	0.0	---	6.5	---	25.5	---	22.5	20.0	---
MONTH	15.0	6.0	0.0	0.0	2.5	6.5	15.5	20.5	24.5	28.0	26.0	21.5

PLATTE RIVER BASIN

06792500 LOUP RIVER POWER CANAL NEAR GENOA, NE

LOCATION.--Lat 41°25'03", long 97°47'37", in NE1/4NE1/4 sec.32, T.17 N., R.4 W., Nance County, Hydrologic Unit 10210009, at skimming weir on downstream end of settling basin on left bank, 2 mi (3 km) downstream from point of diversion and 3.5 mi (5.6 km) southwest of Genoa.

PERIOD OF RECORD.--December 1936 to current year.

GAGE.--Water-stage recorder and concrete weir. Datum of gage is 1,566.26 ft (477.396 m) above mean sea level. Prior to Oct. 1, 1956, at datum 3.0 ft (0.91 m) higher.

REMARKS.--Records excellent. Canal diverts from Loup River in sec.6, T.16 N., R.4 W.; water is used in powerplants near Monroe and Columbus and is returned to Platte River 1.5 mi (2.4 km) downstream from Loup River. Diversion began Dec. 2, 1936.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,410 ft³/s (96.6 m³/s) Apr. 27, 1944; no flow Aug. 16, 24-27, 30, 31, 1966, flood damage to canal being repaired.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,100 ft³/s (87.8 m³/s) Apr. 21; minimum daily, 14 ft³/s (0.40 m³/s) Nov. 22, Dec. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1280	1790	26	101	2040	2660	2390	2630	1650	1050	1060	389
2	1230	1960	108	35	1980	2610	2010	2140	1590	948	1040	527
3	1310	1820	141	23	1640	417	2280	2110	1560	1090	831	676
4	1310	1920	232	24	1910	35	2240	1840	1580	1300	716	650
5	1230	1970	288	264	1840	117	2080	1740	1580	2000	644	651
6	1200	2030	103	29	1580	452	2000	1570	1580	2220	551	690
7	1160	1890	88	48	1530	1160	2050	1600	1490	1770	565	634
8	1140	1870	209	47	1470	1850	2430	1570	1350	1430	598	743
9	1140	2200	240	380	1270	2150	2680	1600	1270	1180	564	899
10	1150	2510	261	772	1540	2770	2230	1450	1260	936	546	1290
11	1180	2230	269	809	1820	2750	2260	1430	1200	755	489	1270
12	1230	2160	210	1030	2000	2690	2210	1600	1090	620	453	1110
13	1200	2160	235	1680	1960	2080	2020	1680	1050	499	435	1030
14	1230	2110	74	1930	1930	2660	2140	1880	948	390	479	1010
15	1310	1920	50	1960	1730	2800	2000	1800	918	370	591	1000
16	1340	1940	36	2050	1630	2870	2440	1730	880	365	640	1060
17	1350	1960	22	2070	1970	2850	3020	1630	862	445	714	1220
18	1400	1910	14	2210	2110	2610	3050	1480	896	467	696	1280
19	1380	2070	128	2130	2510	2600	3060	1430	926	803	853	1170
20	1380	307	205	2020	2480	2590	2860	1370	770	680	897	1120
21	1340	58	138	1880	1670	2570	3100	1310	766	533	659	1070
22	1360	14	280	1590	2140	2550	2850	2460	734	464	500	1060
23	1360	18	396	1970	2180	2350	2520	2560	745	628	447	1040
24	1460	19	835	2020	2470	2230	2540	2940	2430	538	426	1050
25	1490	18	841	1940	2790	2140	2800	3060	2850	561	354	1220
26	1880	20	1190	1880	2800	2120	2520	2800	2900	432	344	1830
27	1710	20	1180	1900	2560	2340	2450	2520	2040	414	315	1650
28	1620	22	1180	1970	2650	2110	2520	2110	1770	427	315	1430
29	1670	16	1210	2020	2610	2480	2780	2010	1510	544	330	1340
30	1740	18	990	2170	---	2700	2850	1860	1300	843	346	1330
31	1880	---	551	2050	---	2840	---	1710	---	1040	366	---
TOTAL	42660	38950	11730	41002	58810	67151	74380	59620	41495	25742	17764	31439
MEAN	1376	1298	378	1323	2028	2166	2479	1923	1383	830	573	1048
MAX	1880	2510	1210	2210	2800	2870	3100	3060	2900	2220	1060	1830
MIN	1140	14	14	23	1270	35	2000	1310	734	365	315	389
AC-FT	84620	77260	23270	81330	116600	133200	147500	118300	82310	51060	35230	62360
CAL YR 1975	TOTAL	495948	MEAN	1359	MAX	3110	MIN	14	AC-FT	983700		
WTR YR 1976	TOTAL	510743	MEAN	1395	MAX	3100	MIN	14	AC-FT	1013000		

06793000 LOUP RIVER NEAR GENOA, NE

LOCATION.--Lat 41°25'05", long 97°43'28", in SE1/4NW1/4 sec.25, T.17 N., R.4 W., Nance County, Hydrologic Unit 10210009, on right bank 300 ft (91 m) upstream from bridge on State Highway 39, 2 mi (3 km) south of Genoa, 3 mi (5 km) upstream from Beaver Creek, and 6 mi (10 km) downstream from diversion dam of Loup River Public Power District.

DRAINAGE AREA.--14,400 mi² (37,300 km²), approximately, of which about 5,650 mi² (14,600 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--August 1928 to June 1932, October 1943 to current year (October 1953 to April 1955, monthly discharge only).

REVISED RECORDS.--WDR NE-74: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,540.13 ft (469.432 m) above mean sea level, unadjusted. Aug. 17, 1928, to June 30, 1932, nonrecording gage at datum 1.49 ft (0.454 m) higher. Oct. 1, 1943 to Sept. 16 1974 (Apr. 26 to Dec. 22, 1949, wire-weight gage only) at site 300 ft (90 m) downstream at present datum.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow of stream affected by power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Records do not include flow of Loup River power canal (station 06792500) which diverts at point 6 mi (10 km) upstream and returns to Platte River below mouth of Loup River; diversion began Dec. 2, 1936. Periodic temperature, conductance, and sediment measurements are published in tables for water quality at miscellaneous sites.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 129,000 ft³/s (3,650 m³/s) Aug. 13, 1966, gage height, 13.93 ft (4.246 m), from rating curve extended above 42,000 ft³/s (1,190 m³/s) on basis of indirect measurement of peak flow; no flow at times during 1956, 1959, 1961, 1963, 1970, 1973, 1974, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,990 ft³/s (255 m³/s) June 25, gage height, 8.09 ft (2.466 m); maximum gage height, 8.79 ft (2.679 m) Feb. 9, backwater from ice; minimum daily discharge, 0.47 ft³/s (0.013 m³/s) Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	17	1000	1400	340	56	121	17	18	24	9.0	9.1
2	12	11	1200	1300	450	34	66	14	18	28	8.1	3.6
3	10	15	1600	1100	640	1000	46	12	18	29	5.6	4.4
4	9.4	36	2000	900	500	1800	31	13	18	27	3.9	4.8
5	8.1	46	1800	700	600	320	37	11	22	32	3.0	4.7
6	7.3	38	2100	900	700	125	32	10	24	34	2.8	5.0
7	7.2	32	2400	640	680	230	192	10	28	23	1.7	27
8	5.6	28	2500	560	800	2400	47	11	28	16	1.2	50
9	4.6	41	2400	200	740	1100	51	10	29	12	1.6	60
10	3.7	54	2300	800	660	250	27	10	28	8.1	1.3	53
11	3.1	53	2000	1100	1000	200	19	9.1	29	6.9	.52	12
12	3.1	44	1800	1000	1500	600	17	14	33	5.1	.47	31
13	1.8	47	1700	600	3500	270	16	11	30	3.0	3.2	49
14	1.2	43	1400	290	3700	200	21	10	28	2.4	10	51
15	.50	32	1100	250	4000	300	34	9.6	28	2.6	6.2	54
16	.75	26	900	200	4100	340	42	9.1	27	1.3	6.6	54
17	1.2	21	700	170	4200	300	183	8.2	30	2.1	6.4	57
18	1.5	20	500	100	2900	170	500	7.8	78	2.1	6.8	50
19	1.5	32	600	150	1800	140	376	6.8	81	1.7	6.2	30
20	2.0	1000	620	250	900	150	331	6.4	71	4.0	6.9	44
21	2.0	700	700	350	1700	140	245	7.8	82	3.6	6.4	40
22	1.8	250	760	500	1000	130	46	1390	76	3.9	5.6	40
23	1.8	200	720	400	725	140	50	4090	98	6.0	5.2	43
24	2.5	400	600	360	544	150	28	1850	635	3.8	4.8	48
25	2.0	800	620	330	183	140	26	280	3820	3.5	4.5	78
26	1.8	900	740	380	257	140	21	44	505	3.8	4.0	95
27	3.7	1100	780	350	92	140	25	23	43	4.8	2.1	35
28	4.3	1300	800	310	56	140	25	50	35	3.8	2.8	9.6
29	3.7	1500	840	350	46	432	23	31	31	6.3	2.6	8.5
30	61	1100	1000	300	---	752	25	21	28	6.5	2.3	7.7
31	18	---	1300	330	---	399	---	19	---	9.1	3.3	---
TOTAL	200.15	9886	39480	16570	38313	12688	2703	8015.8	6019	319.4	135.09	1058.4
MEAN	6.46	330	1274	535	1321	409	90.1	259	201	10.3	4.36	35.3
MAX	61	1500	2500	1400	4200	2400	500	4090	3820	34	10	95
MIN	.50	11	500	100	46	34	16	6.4	18	1.3	.47	3.6
AC-FT	397	19610	78310	32870	75990	25170	5360	15900	11940	634	268	2100
CAL YR 1975	TOTAL	124869.97	MEAN	342	MAX	6060	MIN	.50	AC-FT	247700		
WTR YR 1976	TOTAL	135387.84	MEAN	370	MAX	4200	MIN	.47	AC-FT	268500		

PLATTE RIVER BASIN

06793600 BEAVER CREEK NEAR ALBION, NE

LOCATION.--Lat 41°41'00", long 97°58'25", in NW1/4NW1/4NE1/4 sec.26, T.20 N., R.6 W., Boone County, Hydrologic Unit 10210009, at bridge on county road 0.8 mi (1.3 km) east and 0.6 mi (1.0 km) southeast of junction of Highways 14, 39, and 91 at east edge of Albion.

PERIOD OF RECORD.--Water year 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT 06...	1220	41	230	7.6	16.0	35	10.4	6.6	430	720	2.8
NOV 17...	1230	53	237	7.6	9.0	25	12.6	2.0	110	170	1.9
DEC 09...	1340	72	222	7.1	.5	20	10.8	7.8	180	400	2.8
JAN 21...	1150	46	229	6.9	.0	15	9.4	--	7	100	2.2
FEB 09...	1150	72	228	6.9	.0	15	9.8	3.6	140	740	2.2
MAR 22...	1210	87	243	7.6	10.0	45	10.1	2.2	<33	23	3.2
APR 12...	1220	60	223	7.7	14.5	25	9.4	5.2	150	420	1.5
MAY 03...	1230	70	265	7.7	13.5	30	9.6	1.8	200	240	2.1
JUN 14...	1250	37	249	7.8	25.5	35	7.2	6.4	150	220	1.7
JUL 08...	1220	41	240	7.7	26.0	50	7.1	2.6	4200	360	3.0
AUG 16...	1230	40	221	7.7	23.0	45	7.9	2.0	4400	4800	1.8
SEP 27...	1220	41	242	7.7	12.5	30	9.6	1.4	2300	1900	2.2

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT 06...	178	.24	19.7	.08	.38	1.4	1.8	1.9	.57	.35
NOV 17...	174	.24	24.9	.30	.00	.86	.86	1.2	.40	.31
DEC 09...	--	.21	30.3	.34	.20	.72	.92	1.3	.36	.29
JAN 21...	171	.23	21.2	.47	.20	.80	1.0	1.5	.39	.31
FEB 09...	174	.24	33.8	.49	.14	1.1	1.2	1.7	.43	.33
MAR 22...	--	.23	40.2	.36	.00	1.3	1.3	1.7	.49	.30
APR 12...	164	.22	26.6	.10	.04	.72	.76	.86	.42	.32
MAY 03...	190	.26	35.9	.36	.00	1.2	1.2	1.6	.42	.29
JUN 14...	--	.24	17.5	.11	.18	.75	.93	1.0	.55	.45
JUL 08...	161	.22	17.8	.43	.02	.88	.90	1.3	.62	.46
AUG 16...	115	.16	12.4	.27	.00	.91	.91	1.2	.49	.34
SEP 27...	--	.26	21.0	.21	.06	.61	.67	.88	.44	.34

PLATTE RIVER BASIN

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06793600 BEAVER CREEK NEAR ALBION, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HC03) (MG/L) (00440)
DEC 09...	1340	22	94	0	30	4.6	6.9	.3	6.6	123
MAR 22...	1210	40	110	0	33	5.6	9.0	.4	7.0	145
JUN 14...	1250	11	120	0	38	5.8	7.9	.3	6.7	159
SEP 27...	1220	12	120	15	40	5.1	7.1	.3	6.3	129

DATE	CAR- BONATE (C03) (MG/L) (00445)	ALKA- LINITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
DEC 09...	0	101	5.3	.3	39	156	--	30	--	--
MAR 22...	0	119	5.0	.1	36	171	8	10	1	10
JUN 14...	0	130	4.3	.3	32	175	--	30	--	--
SEP 27...	0	106	29	.3	36	190	12	30	0	0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDED MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
DEC 09...	--	110	--	20	--	--	--	--	--	--
MAR 22...	3	80	1	10	.0	.0	.0	0	0	0
JUN 14...	--	40	--	10	--	--	--	--	--	--
SEP 27...	0	20	1	10	.0	.0	.0	0	0	0

PLATTE RIVER BASIN

06794000 BEAVER CREEK AT GENOA, NE

LOCATION.--Lat 41°26'32", long 97°44'11", in NE1/4SE1/4 sec.14, T.17 N., R.4 W., Nance County, Hydrologic Unit 10210009, on left bank in city park at southwest corner at Genoa, 0.2 mi (0.3 km) downstream from Union Pacific Railroad bridge, 0.2 mi (0.3 km) upstream from bridge on State Highway 39, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--647 mi² (1,676 km²), of which about 410 mi² (1,062 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 1310: 1942(M). WDR NE-73: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,542.13 ft (470.041 m) above mean sea level, unadjusted. October 1940 to Nov. 5, 1942, nonrecording gage and Nov. 6, 1942, to Nov. 1, 1955, water-stage recorder, at site 0.4 mi (0.6 km) upstream at datum 4.62 ft (1.408 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected slightly by ground-water and surface-water withdrawals for irrigation. At times diurnal fluctuation at low flow caused by powerplants above station.

AVERAGE DISCHARGE.--36 years, 124 ft³/s (3.512 m³/s), 89,840 acre-ft/yr (0.111 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,200 ft³/s (600 m³/s) July 19, 1950, gage height, 18.70 ft (5.700 m), site and datum then in use, from rating curve extended above 8,500 ft³/s (241 m³/s); minimum daily, 0.41 ft³/s (0.012 m³/s) July 25, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,690 ft³/s (47.9 m³/s) June 24 at 1030, gage height, 9.04 ft (2.755 m), no other peak above base of 1,000 ft³/s (28.3 m³/s); minimum daily, 0.99 ft³/s (0.028 m³/s) July 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	60	88	78	76	122	152	133	98	56	24	6.2
2	49	60	90	72	74	115	123	133	94	57	22	3.4
3	48	61	92	64	82	106	108	119	90	61	18	7.4
4	48	59	94	62	74	100	99	109	87	66	16	11
5	45	59	98	64	76	98	96	102	86	67	14	10
6	45	59	80	62	74	96	97	93	80	62	8.0	11
7	45	59	82	60	90	110	98	88	77	53	5.0	13
8	44	58	84	68	105	118	94	84	74	50	5.0	23
9	44	64	86	72	125	125	95	84	71	44	4.4	19
10	45	69	98	74	120	136	96	83	69	36	4.0	24
11	47	75	84	74	115	134	96	80	68	34	2.6	31
12	48	70	88	76	130	144	91	84	64	32	1.0	30
13	50	68	82	78	150	128	89	89	62	30	1.1	30
14	51	67	78	72	170	129	92	104	60	28	3.0	29
15	51	68	64	70	190	134	93	107	56	26	8.0	29
16	46	68	62	76	202	140	99	94	57	24	20	36
17	54	67	78	74	186	139	104	82	55	22	26	43
18	54	69	88	70	174	145	140	75	53	20	29	48
19	55	74	94	72	185	141	143	74	48	18	14	43
20	55	52	82	68	175	131	141	72	44	16	4.8	41
21	55	33	80	62	169	118	161	72	41	14	2.1	38
22	56	38	82	60	157	107	187	110	37	12	3.0	37
23	56	45	78	68	135	106	172	323	43	10	4.4	37
24	57	44	80	72	135	101	219	123	827	8.0	2.6	38
25	57	43	78	68	139	96	234	193	279	6.0	5.9	40
26	59	58	80	66	150	91	168	204	135	4.0	4.4	41
27	62	56	82	64	151	87	144	199	84	.99	2.1	43
28	61	70	82	74	140	88	131	295	74	2.0	2.6	45
29	60	90	84	80	132	103	126	145	69	4.2	6.2	43
30	60	86	88	78	---	114	129	119	63	3.8	5.0	43
31	61	---	86	80	---	144	---	106	---	10	2.2	---
TOTAL	1619	1849	2592	2178	3881	3646	3817	3778	3045	876.99	270.4	893.0
MEAN	52.2	61.6	83.6	70.3	134	118	127	122	102	28.3	8.72	29.8
MAX	62	90	98	80	202	145	234	323	827	67	29	48
MIN	44	33	62	60	74	87	89	72	37	.99	1.0	3.4
AC-FT	3210	3670	5140	4320	7700	7230	7570	7490	6040	1740	536	1770

CAL YR 1975 TOTAL 32975.00 MEAN 90.3 MAX 990 MIN 21 AC-FT 65410
WTR YR 1976 TOTAL 28445.39 MEAN 77.7 MAX 827 MIN .99 AC-FT 56420

PLATTE RIVER BASIN

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06794500 LOUP RIVER AT COLUMBUS, NE

LOCATION.--Lat 41°24'59", long 97°21'23", in NW1/4SE1/4 sec.30, T.17 N., R.1 E., Platte County, Hydrologic Unit 10210009, on left bank 0.6 mi (1.0 km) downstream from bridge on U.S. Highway 30 at Columbus, 2.3 mi (3.7 km) upstream from mouth, and 14 mi (23 km) downstream from Looking-glass Creek. Prior to Aug. 7, 1976 at site 0.4 miles upstream.

DRAINAGE AREA.--15,200 mi² (39,400 km²), approximately, of which about 6,230 mi² (16,100 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1894 to September 1915 (published as "near Columbus" 1900-1901), March to September 1931, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 956: 1937-41. WSP 1086: Drainage area. WSP 1390: 1895, 1897, 1900-1901, 1915, 1941(M).

GAGE.--Water-stage recorder. Datum of gage is 1,428.29 ft (435.343 m) above mean sea level, unadjusted. See WSP 2118 for history of changes prior to June 15, 1967. June 15, 1967 to Aug. 6, 1976 at site 0.4 mi (0.6 km) upstream, at same datum.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow of stream affected by power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Records do not include flow of Loup River power canal which diverts at point 25 mi (40 km) upstream and returns to Platte River below mouth of Loup River; diversion began Dec. 2, 1936 (station 06792500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 119,000 ft³/s (3,370 m³/s) Aug. 14, 1966, gage height, 14.42 ft (4.395 m), present site and datum, from rating curve extended above 52,100 ft³/s (1,480 m³/s) by logarithmic plotting and volumetric study; minimum daily, 1.8 ft³/s (0.051 m³/s) Aug. 30, 31, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,100 ft³/s (229 m³/s) May 23, gage height, 6.14 ft (1.871 m); maximum gage height, 8.58 ft (2.615 m) Jan. 3, backwater from ice; minimum daily discharge, 1.8 ft³/s (0.051 m³/s) Aug. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	93	1200	2000	410	175	757	293	234	289	17	5.8
2	71	77	1100	1600	420	204	521	262	223	251	17	5.0
3	71	79	1300	1400	520	250	375	246	200	247	17	4.4
4	69	92	1700	1150	720	900	323	234	180	219	15	2.4
5	72	125	2100	960	580	2000	347	205	174	193	17	2.4
6	73	102	1900	760	500	418	314	186	161	166	17	2.4
7	72	117	2200	960	780	225	216	188	158	142	16	2.7
8	73	95	2500	700	760	250	295	186	155	102	16	12
9	65	161	2600	640	920	2500	194	182	151	98	12	45
10	67	146	3100	800	900	1200	186	184	149	90	10	54
11	68	155	2900	880	800	450	174	179	149	82	9.4	58
12	67	106	2100	1200	1500	300	171	231	135	77	8.3	42
13	62	136	1900	1100	2600	750	167	224	147	67	9.0	52
14	59	132	1800	680	5800	400	170	207	129	51	35	64
15	55	108	1500	360	5400	332	180	229	108	44	35	72
16	62	97	1200	320	5200	383	244	192	91	28	30	73
17	59	93	960	280	4500	432	231	187	75	87	29	77
18	58	92	900	250	4000	314	420	181	68	69	27	82
19	58	162	860	170	3700	286	625	164	147	40	25	87
20	57	500	960	220	1890	290	612	156	126	20	17	75
21	73	1100	1060	320	1810	269	362	199	95	20	11	73
22	73	740	1200	410	1230	255	480	1420	108	44	7.1	78
23	66	520	1300	560	587	256	325	5290	125	80	6.0	71
24	64	400	1140	470	561	260	315	3340	1230	60	5.2	72
25	55	500	1100	340	416	249	395	1100	3660	18	4.6	85
26	54	800	1200	400	321	242	346	571	2210	17	3.5	88
27	58	840	1300	440	340	232	324	423	806	28	2.4	89
28	59	1200	1400	410	241	233	306	467	515	20	2.3	68
29	59	1400	1500	380	197	319	290	362	405	61	2.1	61
30	55	1600	1900	430	---	765	296	288	344	67	1.8	57
31	98	---	2000	380	---	932	---	261	---	42	1.8	---
TOTAL	2029	11768	49880	20970	47603	16071	9961	17837	12458	2819	426.5	1560.1
MEAN	65.5	392	1609	676	1641	518	332	575	415	90.9	13.8	52.0
MAX	98	1600	3100	2000	5800	2500	757	5290	3660	289	35	89
MIN	54	77	860	170	197	175	167	156	68	17	1.8	2.4
AC-FT	4020	23340	98940	41590	94420	31880	19760	35380	24710	5590	846	3090
CAL YR 1975	TOTAL	195960.0	MEAN 537	MAX 8900	MIN 29	AC-FT 388700						
WTR YR 1976	TOTAL	193382.6	MEAN 528	MAX 5800	MIN 1.8	AC-FT 383600						

PLATTE RIVER BASIN

06796000 PLATTE RIVER AT NORTH BEND, NE
(National stream-quality accounting network station)

LOCATION.--Lat 41°27'10", long 96°45'50", in SE1/4 sec.7, T.17 N., R.6 E., Dodge County, Hydrologic Unit 10200201, on left bank 80 ft (24 m) upstream from bridge (new bridge in use during 1976) on State Highway 79, 1 mi (2 km) south of North Bend, and 5 mi (8 km) downstream from Shell Creek.

DRAINAGE AREA (REVISED).--77,100 mi² (199,700 km²), approximately, of which about 63,300 mi² (163,900 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide Basin is not included.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1949 to current year.

REVISED RECORDS.--WDR NE-67: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,262.32 ft (384.755 m) above mean sea level. Prior to Sept. 12, 1951, nonrecording gage and Sept. 12, 1951, to Sept. 30, 1970, water-stage recorder, at present site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--27 years, 4,008 ft³/s (113.5 m³/s), 2,904,000 acre-ft/yr (3.58 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 112,000 ft³/s (3,170 m³/s) Mar. 29, 1960, gage height, 10.04 ft (3.060 m), present datum; maximum gage height, 12.24 ft (3.731 m) Feb. 20, 1971, ice jam; minimum daily discharge, 36 ft³/s (1.02 m³/s) July 29, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 15,000 ft³/s (425 m³/s) Feb. 15, backwater from ice; maximum gage height, 7.15 ft (2.179 m) Feb. 13 (backwater from ice); minimum daily discharge, 126 ft³/s (3.57 m³/s) Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1960	3070	3100	2900	4700	6400	5170	4710	3730	1380	1150	153
2	2270	3260	3400	2300	4200	5360	4280	5310	3260	1280	1120	388
3	1960	2820	3800	1900	4300	5560	4380	4320	3240	1680	1240	218
4	2420	3170	4000	1600	4100	3800	3300	3390	2440	2130	436	738
5	2250	2930	4100	1700	4000	3800	4140	3200	2840	2190	1180	474
6	2010	3250	3900	1500	3900	4000	3230	3890	2380	2880	295	523
7	1950	2840	4200	1400	3900	4800	3250	2470	2480	2670	277	587
8	2300	2720	4400	1500	4200	5600	3450	3540	2300	2850	633	534
9	2150	2820	4500	1700	4500	6640	4100	3100	2710	1780	290	837
10	2000	3310	4900	1900	5000	8760	3570	2600	1670	1230	609	1090
11	2020	3480	5400	1800	5400	7920	3680	2600	2170	986	296	1340
12	2010	3510	4500	2100	6200	6850	4620	2500	1730	731	328	1630
13	2200	2720	4600	2500	7800	5360	3720	2900	1550	436	321	1410
14	1880	2860	3000	2400	9800	5020	3570	2890	1440	591	397	1210
15	1900	3000	2600	2900	13000	5070	4410	3340	1170	215	435	1270
16	2100	2790	3260	2900	11000	5550	4680	2930	1310	399	585	1420
17	1830	2620	2550	2800	10000	5070	4100	2380	1010	208	631	1800
18	2230	2730	1100	2800	9600	4920	4920	2470	1220	461	587	1090
19	2140	2900	1200	2800	8850	4600	4910	1770	1220	352	749	1460
20	2160	3200	1500	2900	8250	4900	6000	1700	1120	673	724	1670
21	2410	2200	1700	3600	7120	4540	5450	2320	891	704	823	1310
22	2220	1600	2300	3500	7360	4320	5340	2400	844	386	649	1480
23	2420	1200	2700	3900	6200	4830	5460	8310	799	463	357	1310
24	2340	920	2900	3800	6160	3800	5280	9460	1070	600	315	1350
25	2510	700	2900	3500	6000	3470	5600	7260	4400	450	308	970
26	2480	540	3000	3400	6200	3690	5810	6210	5790	279	231	2070
27	3030	700	3000	3300	5840	3430	5230	5710	4060	353	149	2840
28	2490	1200	3100	4000	6240	2940	4910	5020	3300	345	222	2620
29	2370	2200	3200	4700	6480	4080	5540	4990	1930	431	213	2260
30	2700	2100	3300	4600	---	4880	5360	4310	1570	303	126	1860
31	2460	---	2800	4500	---	5960	---	3760	---	1040	127	---
TOTAL	69170	73360	100910	87100	190300	155920	137460	121760	65644	30476	15803	37912
MEAN	2231	2445	3255	2810	6562	5030	4582	3928	2188	983	510	1264
MAX	3030	3510	5400	4700	13000	8760	6000	9460	5790	2880	1240	2840
MIN	1830	540	1100	1400	3900	2940	3230	1700	799	208	126	153
AC-FT	137200	145500	200200	172800	377500	309300	272700	241500	130200	60450	31350	75200
CAL YR 1975	TOTAL	1163412	MEAN	3187	MAX	14100	MIN	300	AC-FT	2308000		
WTE YR 1976	TOTAL	1085815	MEAN	2967	MAX	13000	MIN	126	AC-FT	2154000		

06796000 PLATTE RIVER AT NORTH BEND, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1972 to current year.

WATER TEMPERATURES: October 1972 to current year.

REMARKS.--Daily specific conductance and water temperatures for 1976 water year have not been published owing to questionable reliability of observations for most of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 790 micromhos June 25, 1973; minimum daily, 221 micromhos Oct. 2, 1973.

WATER TEMPERATURES: Maximum, 29.5°C several days during summer periods, minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)
NOV 07...	1200	3620	488	7.8	12.5	12	50	10.2	--	143
DEC 05...	1200	4090	486	7.6	1.0	20	35	14.0	2.4	180
JAN 29...	1045	4720	408	7.0	.5	10	20	11.3	3.4	60
FEB 16...	1040	11200	437	7.4	1.0	40	--	11.1	3.5	300
MAR 10...	1430	9560	478	7.5	4.0	25	75	15.0	3.6	93
APR 09...	1200	3220	570	7.8	12.0	20	180	8.8	3.0	77
MAY 14...	1030	3910	416	7.8	15.0	24	20	10.4	4.0	9
JUN 01...	1200	4870	493	8.4	24.5	7	50	8.8	5.7	310
JUL 14...	1320	1070	401	8.2	28.5	45	60	9.0	8.6	162
AUG 03...	1045	464	330	8.2	22.0	45	25	7.5	4.0	42
SEP 21...	1115	1740	300	8.0	16.5	22	55	8.2	5.4	310

DATE	STREP-TOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA+MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)
NOV 07...	228	170	13	48	11	38	1.3	9.6	186	0
DEC 05...	280	170	20	49	11	33	1.1	10	180	0
JAN 29...	96	150	11	45	9.4	26	.9	7.9	171	0
FEB 16...	2020	150	26	43	10	28	1.0	7.8	149	0
MAR 10...	140	160	8	46	10	25	.9	8.2	180	0
APR 09...	130	200	47	58	14	42	1.3	9.6	190	0
MAY 14...	38	160	160	46	10	23	.8	8.2	--	0
JUN 01...	100	170	30	46	14	37	1.2	11	174	0
JUL 14...	240	150	0	44	9.3	19	.7	9.8	192	0
AUG 03...	47	140	0	42	7.5	13	.5	9.4	181	0
SEP 21...	264	120	0	36	6.6	11	.4	7.8	153	0

PLATTE RIVER BASIN

06796000 PLATTE RIVER AT NORTH BEND, NE--Continued
WATER QUALITY DATA: WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ALKA- LITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)
	NOV 07...	153	95	12	.4	34	--	340	.46	3320	.03
DEC 05...	148	75	11	.3	37	338	318	.46	3730	.60
JAN 29...	140	68	8.5	.3	38	--	287	.39	3660	.72
FEB 16...	122	79	9.8	.4	28	--	280	.38	8470	.75
MAR 10...	148	62	8.2	.3	39	302	291	.41	7800	.88
APR 09...	156	110	15	.4	32	390	375	.53	3390	.56
MAY 14...	--	64	8.6	.4	31	--	--	--	--	.01
JUN 01...	143	94	13	.4	29	--	330	.45	4340	.02
JUL 14...	157	39	8.4	.4	40	--	265	.36	766	.00
AUG 03...	148	16	4.3	.3	39	--	221	.30	277	.03
SEP 21...	126	12	3.2	.3	42	--	194	.26	911	.00
DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
NOV 07...	--	.01	1.9	1.9	1.9	.14	.09	70	0	10
DEC 05...	.60	.09	.91	1.0	1.6	.22	.14	80	20	10
JAN 29...	--	.07	.51	.58	1.3	.19	.14	50	20	0
FEB 16...	--	.15	1.2	1.3	2.1	.32	.14	60	30	10
MAR 10...	.86	.11	2.0	2.1	3.0	.34	.16	50	10	20
APR 09...	--	.13	2.6	2.7	3.3	.50	.11	90	0	0
MAY 14...	--	.01	.89	.90	.91	.25	.10	--	30	10
JUN 01...	.02	.04	1.3	1.3	1.3	.33	.09	80	10	0
JUL 14...	--	.02	1.3	1.3	1.3	.33	.20	60	60	0
AUG 03...	--	.00	.65	.65	.68	.29	.20	50	110	10
SEP 21...	.00	.00	1.0	1.0	1.0	.32	.14	40	30	50
DATE	TIME	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L) (00608)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L) (00607)	SUS- PENDED KJEL. NITRO- GEN (N) (MG/L) (00624)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L) (00623)	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS- PENDED ARSENIC (AS) (UG/L) (01001)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD- MIUM (CD) (UG/L) (01027)
DEC 05...	1200	15	.04	.47	.49	.51	6	2	4	<10
MAR 10...	1430	34	.09	.47	1.5	.56	16	10	6	<10
JUN 01...	1200	--	.04	.55	.70	.59	6	0	6	2
SEP 21...	1115	29	.00	.01	.99	.01	10	0	10	<10
DATE	SUS- PENDED CAD- MIUM (CD) (UG/L) (01026)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	TOTAL CHRO- MIUM (CR) (UG/L) (01034)	SUS- PENDED CHRO- MIUM (CR) (UG/L) (01031)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS- PENDED COBALT (CO) (UG/L) (01036)	DIS- SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS- PENDED COPPER (CU) (UG/L) (01041)
DEC 05...	<9	1	0	0	0	<50	<50	0	10	6
MAR 10...	<9	1	10	10	0	<50	<50	0	10	7
JUN 01...	0	2	20	10	10	2	2	0	10	0
SEP 21...	<10	0	0	0	0	50	50	0	10	3

06796000 PLATTE RIVER AT NORTH BEND, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	SUS- PENDE D LEAD (PB) (UG/L) (01050)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN- GANESE (MN) (UG/L) (01055)	SUS- PENDE D MAN- GANESE (MN) (UG/L) (01054)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE D MERCURY (HG) (UG/L) (71895)
DEC 05...	4	2800	<100	<97	3	110	100	.1	.1
MAR 10...	3	4900	<100	<98	2	210	190	.1	.1
JUN 01...	10	3300	7	2	5	150	150	<.5	.0
SEP 21...	7	3800	<100	<95	5	200	150	.0	.0

DATE	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	SUS- PENDE D SELE- NIUM (SE) (UG/L) (01146)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS- PENDE D ZINC (ZN) (UG/L) (01091)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
DEC 05...	.0	2	1	1	0	30	30	0	--
MAR 10...	.0	3	1	2	0	40	30	10	14
JUN 01...	<.5	3	1	2	0	20	10	10	10
SEP 21...	.0	1	0	1	0	20	10	10	7.8

DATE	TIME	DIS- SOLVED ALDRIN (UG/L) (39331)	DIS- SOLVED CHLOR- DANE (UG/L) (39352)	DIS- SOLVED DDD (UG/L) (39361)	DIS- SOLVED DDE (UG/L) (39366)	DIS- SOLVED DDT (UG/L) (39371)	DIS- SOLVED DI- AZINON (UG/L) (39572)	DIS- SOLVED DI- ELDRIN (UG/L) (39381)	DIS- SOLVED ENDRIN (UG/L) (39391)
MAR 10...	1430	.00	.0	.00	.00	.00	.00	.00	.00

DATE	DIS- SOLVED HEPTA- CHLOR (UG/L) (39411)	DIS- SOLVED HEPTA- EPOXIDE (UG/L) (39421)	DIS- SOLVED LINDANE (UG/L) (39341)	DIS- SOLVED MALA- THION (UG/L) (39532)	DIS- SOLVED METHYL PARA- THION (UG/L) (39602)	DIS- SOLVED PARA- THION (UG/L) (39542)	DIS- SOLVED 2,4-D (UG/L) (39732)	DIS- SOLVED 2,4,5-T (UG/L) (39742)	DIS- SOLVED SILVEX (UG/L) (39762)
MAR 10...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL PHYTO- PLANK- TON (CELLS PER ML) (60050)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI- PHYTON BIOMASS DRY WEIGHT G/SQ M (00573)	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL A MG/SQ M (32228)	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL B MG/SQ M (32226)
NOV 07...	72000	--	--	--	--
DEC 05...	7200	--	--	--	--
JAN 29...	7700	--	--	--	--
FEB 16...	12000	--	--	--	--
MAR 10...	21000	--	--	--	--
APR 09...	60000	--	--	--	--
MAY 14...	58000	--	--	--	--
JUN 01...	150000	6.62	7.69	.430	.000
JUL 14...	310000	--	--	--	--
AUG 03...	74000	--	--	--	--
SEP 30...	--	19.3	24.9	3.00	.218
SEP 21...	160000	--	--	--	--

PLATTE RIVER BASIN

06796000 PLATTE RIVER AT NORTH BEND, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	TEMPER- ATURE (DEG C) (00010)	SUS- PENDE SEDI- MENT (MG/L) (80154)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN .500 MM (70345)	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM (70346)	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM (70347)
NOV 07...	1200	3620	12.5	289	2820	--	--	--	--	--	--
DEC 05...	1200	4090	1.0	811	8956	--	--	--	--	--	--
FEB 16...	1040	11200	1.0	6520	197000	67	73	75	76	98	100
MAR 10...	1400	9560	4.0	3180	82100	37	53	67	86	100	--
APR 09...	1200	3220	12.0	680	5910	82	97	98	100	--	--
MAY 14...	1015	3910	16.0	298	3140	44	64	100	--	--	--
JUN 01...	1200	4870	24.5	339	4460	58	95	98	100	--	--
JUL 14...	1320	1070	28.5	172	497	70	98	99	100	--	--
AUG 03...	1045	464	22.0	175	219	--	--	--	--	--	--
SEP 21...	1215	1740	17.0	557	2620	87	88	90	95	100	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	NUMBER OF SAM- PLING POINTS (00063)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)
JUN 01...	1200	4870	5	0	29	73	91	96	99	100

PLATTE RIVER BASIN

185

06797500 ELKHORN RIVER AT EWING, NE

LOCATION.--Lat 42°16'03", long 98°20'11", in NW1/4SW1/4 sec.35, T.27 N., R.9 W., Holt County, Hydrologic Unit 10220001, on right bank 350 ft (107 m) downstream from bridge on State Highway 420, 0.8 mi (1.3 km) north of Ewing, and 1.5 mi (2.4 km) upstream from South Fork Elkhorn River.

DRAINAGE AREA.--1,400 mi² (3,630 km²), approximately, of which about 740 mi² (1,920 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--August 1947 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,836 ft (559.6 m), from topographic map. Prior to Oct. 22, 1952, at site 300 ft (90 m) upstream at same datum.

REMARKS.--Records good except those for winter period, which are poor. Periodic temperature and conductance measurements are published in tables for water quality at miscellaneous sites.

AVERAGE DISCHARGE.--29 years, 170 ft³/s (4.814 m³/s), 123,200 acre-ft/yr (0.152 km³/yr); median of yearly mean discharges, 110 ft³/s (3.115 m³/s), 79,700 acre-ft/yr (98.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,500 ft³/s (212 m³/s) June 10, 1962, gage height, 10.60 ft (3.231 m); minimum daily, 5.2 ft³/s (0.15 m³/s) Sept. 6, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 11.32 ft (3.450 m) June 23, 24, 1947, from floodmark at site 300 ft (90 m) upstream, discharge, 6,600 ft³/s (187 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 750 ft³/s (21.2 m³/s) Mar. 21 at 0030, gage height, 5.45 ft (1.661 m), no other peak above base of 500 ft³/s (14.2 m³/s); minimum daily, 5.2 ft³/s (0.15 m³/s) Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	28	27	31	41	208	117	153	80	28	16	11
2	14	29	30	27	42	179	109	140	81	29	18	8.6
3	15	29	33	35	42	100	101	125	77	31	16	7.1
4	13	30	35	35	38	86	98	119	66	33	15	6.2
5	12	33	35	34	35	70	98	112	64	35	12	5.4
6	12	32	32	33	32	90	95	102	60	36	16	5.2
7	12	32	33	30	40	110	95	99	58	33	16	5.6
8	12	33	30	31	46	126	97	93	55	29	14	17
9	12	38	28	30	52	140	99	89	51	25	12	16
10	11	39	26	30	60	175	97	85	50	23	10	17
11	15	37	25	31	78	177	96	80	47	22	9.9	14
12	14	37	26	32	100	130	93	104	42	20	10	12
13	17	34	28	33	130	68	94	102	41	18	9.8	11
14	17	35	24	33	170	94	93	94	39	17	11	12
15	18	39	28	31	220	102	97	87	37	16	14	14
16	19	38	30	32	270	147	135	78	36	16	17	15
17	21	39	30	32	350	205	135	73	35	15	19	16
18	21	40	29	32	410	344	155	71	34	14	18	26
19	21	44	29	33	417	534	155	68	34	13	16	31
20	22	30	31	33	384	702	204	65	33	13	15	31
21	23	19	31	33	330	690	205	75	30	13	13	28
22	23	21	30	34	251	526	199	97	28	12	10	25
23	23	20	30	34	209	359	234	146	30	11	8.6	22
24	24	25	30	35	248	273	359	133	45	10	7.3	22
25	26	24	31	34	285	229	316	130	46	9.0	7.7	22
26	28	26	31	33	310	196	280	116	44	11	6.9	22
27	29	28	32	35	356	167	240	105	38	10	6.2	21
28	28	30	32	38	322	151	206	99	34	10	5.9	24
29	30	31	33	40	258	147	183	92	30	17	6.0	22
30	29	28	34	38	---	140	166	84	29	18	5.4	22
31	28	---	32	39	---	125	---	82	---	18	8.9	---
TOTAL	602	948	935	1031	5526	6790	4651	3098	1374	605.0	370.6	511.1
MEAN	19.4	31.6	30.2	33.3	191	219	155	99.9	45.8	19.5	12.0	17.0
MAX	30	44	35	40	417	702	359	153	81	36	19	31
MIN	11	19	24	27	32	68	93	65	28	9.0	5.4	5.2
AC-FT	1190	1880	1850	2040	10960	13470	9230	6140	2730	1200	735	1010
CAL YR 1975	TOTAL	19625.5	MEAN 53.8	MAX 304	MIN 8.0	AC-FT 38930						
WTR YR 1976	TOTAL	26441.7	MEAN 72.2	MAX 702	MIN 5.2	AC-FT 52450						

PLATTE RIVER BASIN

06798500 ELKHORN RIVER AT NELIGH, NE

LOCATION.--Lat 42°07'20", long 98°01'40", in sec.20, T.25 N., R.6 W., Antelope County, Hydrologic Unit 10220001, on right bank 30 ft (9 m) downstream from bridge on old State Highway 14 at Neligh.

DRAINAGE AREA.--2,200 mi² (5,700 km²), approximately, of which about 1,200 mi² (3,110 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1930 to September 1958, August 1960 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1006: 1935, 1942. WSP 1390: 1931-32, 1937(M). WSP 1730: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,713.88 ft (522.391 m) above mean sea level. Prior to Apr. 16, 1933, nonrecording gage at site 10 ft (3 m) downstream at present datum. Apr. 16, 1933, to Jan. 23, 1939, nonrecording gage at bridge 30 ft (9 m) upstream at present datum. Jan. 24, 1939 to Oct. 9, 1958 and Aug. 8, 1960 to Sept. 8, 1970 water-stage recorder at site 20 ft (6 m) upstream at present datum.

REMARKS.--Records fair except those for winter period, which are poor. Periodic temperature, conductance, and sediment measurements are published in tables for water quality at miscellaneous sites.

AVERAGE DISCHARGE.--44 years, 279 ft³/s (7.901 m³/s), 202,100 acre-ft/yr (0.249 km³/yr); median of yearly mean discharges, 230 ft³/s (6.514 m³/s), 167,000 acre-ft/yr (0.206 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 12,000 ft³/s (340 m³/s) June 23, 1947, gage height, 12.53 ft (3.819 m), from main channel rating curve extended above 4,900 ft³/s (139 m³/s) and field estimate of flow through break in highway fill; minimum daily, 12 ft³/s (0.34 m³/s) July 2, 1932.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29, 1960, reached a stage of 12.24 ft (3.731 m), from floodmark, discharge, 12,300 ft³/s (348 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft³/s (30.3 m³/s) Mar. 21 at 0700, gage height, 5.19 ft (1.582 m), no other peak above base of 1,000 ft³/s (28.3 m³/s); maximum gage height, 5.22 ft (1.591 m) Feb. 19, backwater from ice; minimum daily discharge, 21 ft³/s (0.59 m³/s) Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	93	145	120	145	406	294	354	180	100	58	46
2	80	96	150	110	145	345	279	322	183	96	63	52
3	82	98	160	92	140	250	259	289	181	111	58	37
4	78	99	165	120	140	140	244	270	169	124	49	30
5	74	98	170	125	125	130	238	253	156	115	46	24
6	71	105	170	125	140	140	234	233	155	105	44	27
7	74	103	165	120	150	190	248	221	150	102	46	27
8	74	102	170	114	150	260	245	212	143	96	39	70
9	74	126	170	125	155	329	236	203	141	82	36	90
10	74	141	160	130	170	337	236	192	133	68	36	72
11	80	128	160	135	200	397	230	188	125	64	44	62
12	87	115	160	145	230	330	218	280	109	60	46	57
13	85	114	150	140	260	200	214	300	108	52	50	54
14	90	118	140	140	300	270	209	257	104	50	52	53
15	92	115	110	145	350	368	214	239	108	49	55	82
16	93	116	125	140	420	396	304	203	109	46	65	113
17	98	115	130	145	500	452	353	190	102	44	75	93
18	99	119	125	140	620	595	367	185	96	43	63	89
19	98	125	135	140	700	822	411	190	96	42	46	87
20	94	90	150	140	660	1000	467	180	95	41	35	85
21	95	70	145	140	600	999	487	168	85	40	30	82
22	97	60	135	140	547	756	453	215	79	39	30	80
23	96	64	130	140	538	591	424	368	90	38	28	74
24	102	60	130	145	477	484	514	463	201	38	27	69
25	102	60	130	140	516	434	652	418	195	39	26	85
26	101	66	130	135	549	378	647	370	156	45	27	89
27	101	86	130	120	557	344	553	298	144	56	24	80
28	96	120	130	130	565	320	474	246	131	49	21	79
29	94	125	135	140	461	346	427	215	117	60	23	80
30	97	120	140	150	---	347	389	199	106	76	22	82
31	96	---	130	150	---	310	---	187	---	60	22	---
TOTAL	2750	3047	4475	4121	10510	12666	10520	7908	3947	2030	1286	2050
MEAN	88.7	102	144	133	362	409	351	255	132	65.5	41.5	68.3
MAX	102	141	170	150	700	1000	652	463	201	124	75	113
MIN	71	60	110	92	125	130	209	168	79	38	21	24
AC-FT	5450	6040	8880	8170	20850	25120	20870	15690	7830	4030	2550	4070
CAL YR 1975 TOTAL	61292	MEAN 168	MAX	843	MIN 45	AC-FT	121600					
WTR YR 1976 TOTAL	65310	MEAN 178	MAX	1000	MIN 21	AC-FT	129500					

06799000 ELKHORN RIVER NEAR NORFOLK, NE

LOCATION.--Lat 42°00'20", long 97°28'40", in SW1/4 sec.31, T.24 N., R.1 W., Madison County, Hydrologic Unit 10220001, on left bank 75 ft (23 m) downstream from bridge on county road, 3.5 mi (5.6 km) west-southwest of Norfolk, and 7 mi (11 km) upstream from North Fork Elkhorn River.

DRAINAGE AREA.--2,790 mi² (7,230 km²), approximately, of which about 1,790 mi² (4,640 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--July 1896 to November 1903 (no winter records), October 1945 to current year. Gage height records collected at site 3.2 mi (5.1 km) downstream since May 1941 are contained in reports of U.S. Weather Bureau. Published as "at Norfolk" prior to October 1957.

REVISED RECORDS.--WSP 1390: 1898-1900. WSP 1730: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,522.83 ft (464.159 m) above mean sea level. See WSP 1918 for history of changes prior to Aug. 30, 1958.

REMARKS.--Records fair except those for winter period, which are poor. Periodic temperature, conductance, and sediment measurements are published in tables for water quality at miscellaneous sites.

AVERAGE DISCHARGE.--31 years, 498 ft³/s (14.10 m³/s), 360,800 acre-ft/yr (0.445 km³/yr); median of yearly mean discharges, 410 ft³/s (11.61 m³/s), 297,000 acre-ft/yr (0.366 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,900 ft³/s (479 m³/s) June 14, 1967, gage height, 8.52 ft (2.597 m); maximum gage height observed, 13.63 ft (4.154 m) Mar. 11, 1949, site and datum then in use, backwater from ice; minimum daily discharge, 37 ft³/s (1.05 m³/s) Aug. 30, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 13, 1944, reached a stage of 11.8 ft (3.60 m), previous site and datum, discharge, 14,300 ft³/s (405 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 1,600 ft³/s (45.3 m³/s) Feb. 17, ice jam, no peak above base of 2,000 ft³/s (56.6 m³/s); maximum gage height, 4.82 ft (1.469 m) Feb. 15, backwater from ice; minimum daily discharge, 37 ft³/s (1.05 m³/s) Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	171	200	200	215	544	389	471	389	155	92	43
2	134	173	200	940	210	494	380	433	362	167	95	45
3	133	172	210	180	210	420	372	405	327	161	92	51
4	132	172	230	170	210	300	348	402	306	167	90	52
5	129	175	235	200	200	260	357	386	283	161	82	48
6	127	176	210	180	190	250	362	360	261	156	75	46
7	129	182	220	170	220	350	356	342	252	142	71	44
8	127	186	230	180	250	440	352	329	237	134	69	57
9	127	218	235	195	290	471	350	323	224	116	67	62
10	128	251	230	210	330	500	344	310	208	103	67	77
11	133	240	230	225	400	511	333	287	193	101	64	82
12	139	223	230	210	470	560	320	345	188	91	68	80
13	150	218	230	205	580	602	310	390	177	86	76	83
14	161	215	210	200	740	514	306	428	171	86	73	85
15	163	219	175	220	1000	510	307	384	166	88	73	100
16	173	223	180	210	1200	538	347	349	163	82	75	108
17	171	223	170	220	1300	540	388	332	155	81	77	123
18	169	223	170	230	1280	591	434	308	157	77	69	129
19	166	230	180	210	927	700	449	287	148	77	57	126
20	169	190	220	190	1020	963	508	268	143	75	45	135
21	170	170	215	210	942	1180	576	261	139	75	41	132
22	167	150	210	220	700	1060	604	484	139	75	41	133
23	169	160	205	230	700	860	613	889	135	71	41	130
24	176	150	200	230	680	680	611	698	196	67	40	128
25	180	150	200	240	680	579	730	712	258	64	40	138
26	177	165	945	220	665	537	814	627	318	62	40	136
27	175	180	955	180	635	487	739	608	224	73	40	138
28	173	210	972	170	642	448	625	528	211	78	41	137
29	171	215	1000	200	595	558	522	470	193	82	40	133
30	171	205	985	240	---	414	493	451	178	88	37	129
31	172	---	1080	225	---	451	---	426	---	95	40	---
TOTAL	4795	5835	11162	7110	17481	17312	13639	13293	6501	3136	1918	2910
MEAN	155	195	360	229	603	558	455	429	217	101	61.9	97.0
MAX	180	251	1080	940	1300	1180	814	889	389	167	95	138
MIN	127	150	170	170	190	250	306	261	135	62	37	43
AC-FT	9510	11570	22140	14100	34670	34340	27050	26370	12890	6220	3800	5770
CAL YR 1975	TOTAL	108072	MEAN 296	MAX 1170	MIN 95	AC-FT 214400						
WTR YR 1976	TOTAL	105092	MEAN 287	MAX 1300	MIN 37	AC-FT 208400						

PLATTE RIVER BASIN

06799080 WILLOW CREEK NEAR POSTER, NE

LOCATION.--Lat 42°10'38", long 97°40'02" in NW1/4NE1/4 sec.4, T.25 N., R.3 W., Pierce County, Hydrologic Unit 10220002, on left downstream bank at county road bridge, 6.8 mi (10.9 km) south of Poster and 7.2 mi (11.6 km) southwest of Pierce.

PERIOD OF RECORD.--October 1975 (monthly discharge only) to September 1976.

GAGE.--Water-stage recorder.

REMARKS.--Records good except those for winter period, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49 ft³/s (1.39 m³/s) Mar. 12, gage height, 3.71 ft (1.131 m); maximum gage height, 5.54 ft (1.689 m) Nov. 21, backwater from ice; minimum daily discharge, 2.6 ft³/s (0.074 m³/s) Aug. 28, 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV.	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		*5.8	6.0	9.8	9.0	14	15	9.9	8.1	6.1	4.5	4.1
2		*5.4	6.4	8.0	7.0	13	14	9.1	8.0	7.0	4.9	3.7
3		*5.6	7.0	6.0	6.0	12	12	8.8	7.7	6.8	4.7	3.3
4		*5.4	7.6	6.6	5.2	11	12	8.7	7.4	6.7	4.6	3.2
5		*5.6	7.2	7.0	6.0	12	11	8.2	7.3	6.1	4.4	3.2
6		*5.4	7.0	6.0	5.8	14	11	7.4	7.3	5.8	4.5	3.3
7		*5.6	6.8	5.0	6.4	15	11	7.1	7.0	5.5	4.4	3.3
8		*5.4	7.0	6.0	7.0	16	11	7.3	6.8	5.3	4.3	2.8
9		*5.6	6.6	7.0	9.0	17	12	7.2	7.0	5.2	4.4	3.3
10		*5.4	7.0	8.4	12	19	11	7.2	6.8	4.9	3.7	3.6
11		*5.6	6.4	10	15	19	9.9	6.7	6.5	4.6	3.8	3.7
12		*5.2	6.8	11	20	23	9.6	8.0	6.6	4.7	4.4	3.9
13		4.6	6.4	10	25	21	9.8	7.7	6.2	4.7	4.3	3.8
14		5.0	6.0	9.4	21	22	10	7.4	6.3	5.6	4.0	3.7
15		5.0	5.2	10	22	23	9.6	7.3	5.7	4.7	4.0	4.7
16		4.9	5.4	9.0	25	28	13	6.5	6.1	4.7	4.3	5.1
17		4.8	5.0	9.4	30	27	12	6.6	6.1	4.8	4.4	4.6
18		5.9	4.6	10	28	29	12	6.6	5.4	4.6	4.0	4.6
19		7.2	5.6	9.4	30	26	12	6.6	5.7	4.2	3.6	4.6
20		15	7.0	9.0	28	20	12	6.5	5.8	4.5	3.2	4.3
21		12	11	8.6	24	16	12	6.5	5.5	4.5	3.2	4.2
22		11	10	9.4	25	15	11	9.0	5.4	3.7	3.2	4.3
23		9.0	9.6	10	26	15	11	15	5.5	3.5	3.2	4.1
24		8.2	8.8	9.8	27	13	13	13	10	3.9	3.2	4.3
25		7.0	9.0	9.6	27	13	14	12	7.6	3.8	3.1	4.5
26		6.0	8.6	7.6	24	12	13	12	6.8	4.4	3.1	4.6
27		6.6	9.0	8.6	21	11	12	11	6.4	5.1	2.9	4.5
28		7.6	10	9.6	19	12	12	9.3	6.7	4.6	2.6	4.2
29		7.2	11	10	17	14	11	8.9	6.3	4.9	2.6	4.3
30	†6.1	6.8	10	9.8	---	17	11	8.4	6.2	5.4	2.6	4.4
31		---	9.4	10	---	16	---	8.4	---	4.7	2.8	---
TOTAL	*181.0	199.8	233.4	270.0	527.4	535	349.9	264.3	200.2	155.0	116.9	120.2
MEAN	5.84	6.66	7.53	8.71	18.2	17.3	11.7	8.53	6.67	5.00	3.77	4.01
MAX	---	15	11	11	30	29	15	15	10	7.0	4.9	5.1
MIN	---	4.6	4.6	5.0	5.2	11	9.6	6.5	5.4	3.5	2.6	2.8
AC-FT	359	396	463	536	1050	1060	694	524	397	307	232	238

WTR YR 1976 TOTAL 3153.1 MEAN 8.62 MAX 30 MIN 2.6 AC-FT 6250

† Result of discharge measurement.

* Estimated.

PLATTE RIVER BASIN

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06799100 NORTH FORK ELKHORN RIVER NEAR PIERCE, NE

LOCATION.--Lat 42°10'44", long 97°29'04", in SW1/4 sec.31, T.26 N., R.1 W., Pierce County, Hydrologic Unit 10220002, on left downstream wingwall of county road bridge, 2.5 mi (4.0 km) southeast of Pierce.

DRAINAGE AREA.--700 mi² (1,810 km²), approximately, of which about 30 mi² (78 km²) is noncontributing.

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,553.07 ft (473.376 m) above mean sea level (U.S. Weather Bureau levels).

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--16 years, 85.3 ft³/s (2.416 m³/s), 61,800 acre-ft/yr (76.2 hm³/yr); median of yearly mean discharges, 72 ft³/s (2.039 m³/s), 52,200 acre-ft/yr (64.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,200 ft³/s (430 m³/s) Feb. 19, 1971, gage height, 15.10 ft (4.602 m); minimum daily, 3.8 ft³/s (0.11 m³/s) July 24, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 147 ft³/s (4.16 m³/s) Mar. 17, gage height, 4.43 ft (1.350 m), no peak above base of 870 ft³/s (24.6 m³/s); maximum gage height, 5.09 ft (1.551 m) Feb. 19, backwater from ice; minimum daily discharge, 3.8 ft³/s (0.11 m³/s) July 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	26	32	41	45	71	66	50	39	20	12	9.9
2	22	27	34	33	41	67	62	48	38	21	12	11
3	24	27	34	28	46	66	58	46	36	23	11	9.0
4	25	27	36	25	44	76	56	45	35	21	10	8.7
5	25	27	38	32	39	82	57	43	34	21	8.6	8.4
6	26	28	36	28	36	86	52	41	34	19	7.6	8.3
7	26	29	38	20	42	84	50	41	33	17	5.8	8.0
8	25	29	40	22	46	99	50	41	32	15	4.8	10
9	24	33	40	24	54	86	49	40	31	13	6.0	12
10	24	36	41	26	58	76	48	40	31	12	5.4	10
11	25	34	39	27	62	83	47	38	29	12	7.2	10
12	25	32	39	25	68	88	45	44	28	11	8.1	11
13	25	31	41	23	74	92	44	45	27	9.6	8.2	12
14	25	32	31	22	70	94	43	43	27	9.2	8.8	12
15	25	32	30	25	66	90	40	41	27	9.0	8.2	15
16	26	31	32	24	64	90	48	39	27	8.8	10	17
17	26	31	29	26	70	129	52	38	26	8.4	12	16
18	26	31	28	28	86	129	55	38	26	7.8	10	15
19	26	34	35	26	100	113	53	37	24	7.6	8.6	16
20	26	29	40	25	90	96	51	36	23	7.2	7.6	16
21	26	27	38	29	82	74	52	36	22	6.8	6.0	15
22	26	25	37	30	74	78	51	42	21	6.2	6.7	15
23	26	24	38	31	76	77	50	66	20	5.2	6.2	15
24	27	24	39	32	98	69	56	76	38	3.8	5.8	15
25	27	25	39	29	109	66	64	61	34	4.0	6.2	16
26	27	28	41	28	102	60	65	59	30	7.6	7.1	17
27	27	34	40	28	94	57	61	53	27	9.8	6.7	17
28	26	39	42	36	88	54	55	47	25	12	6.7	17
29	25	40	42	45	79	63	53	45	23	11	6.4	17
30	26	33	43	43	---	86	53	41	22	15	6.6	17
31	27	---	40	47	---	78	---	40	---	13	7.1	---
TOTAL	788	905	1152	908	2003	2559	1586	1400	869	367.0	243.4	396.3
MEAN	25.4	30.2	37.2	29.3	69.1	82.5	52.9	45.2	29.0	11.8	7.85	13.2
MAX	27	40	43	47	109	129	66	76	39	23	12	17
MIN	22	24	28	20	36	54	40	36	20	3.8	4.8	8.0
AC-FT	1560	1800	2280	1800	3970	5080	3150	2780	1720	728	483	786
CAL YR 1975	TOTAL	18329.0	MEAN	50.2	MAX	711	MIN	15	AC-FT	36360		
WTE YR 1976	TOTAL	13176.7	MEAN	36.0	MAX	129	MIN	3.8	AC-FT	26140		

06799350 ELKHORN RIVER AT WEST POINT, NE

LOCATION.--Lat 41°50'22", long 96°43'38", in SW1/4NW1/4 sec. 34, T.22 N., R.6 E., Cuming county, Hydrologic Unit 10220003, on right bank near right downstream wingwall of bridge on State Highway 32 and 1 mi (2 km) west of West Point. Prior to May 18 at site on left bank 50 ft (15 m) upstream from bridge.

DRAINAGE AREA.--5,100 mi² (13,200 km²), approximately, of which about 4,100 mi² (10,600 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1972 to current year. March 1960 to September 1972 (no winter records 1960-68) in files of Corps of Engineers. Gage-height records collected since 1940 are in reports of U.S. weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 1,291.26 ft (393.576 m) above mean sea level. Prior to May 18, 1976 at site on left bank 50 ft (15 m) upstream from bridge at same datum.

REMARKS.--Records fair except those for winter period, which are poor. Some small diversions above station for irrigation.

AVERAGE DISCHARGE.--8 years (1968-76), 715 ft³/s (20.25 m³/s) (518,000 acre-ft/yr (0.639 km³/yr)).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge estimated, 33,000 ft³/s (935 m³/s) June 25, 1969, gage height, 13.21 ft (4.026 m); minimum daily, 41 ft³/s (1.16 m³/s) Aug. 31, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 31, 1960 reached a stage of 16.09 ft (4.904 m), backwater from ice; observed by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.-Maximum discharge, 4,140 ft³/s (117 m³/s) May 23, gage height, 8.52 ft (2.597 m), no peak above base of 4,500 ft³/s (127 m³/s); maximum gage height, 8.83 ft (2.691 m), Feb. 15, ice jam; minimum daily discharge, 41 ft³/s (1.16 m³/s) Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	238	260	290	330	734	726	704	495	243	140	52
2	170	250	260	280	330	686	670	648	480	244	157	47
3	175	241	270	280	320	580	578	615	448	246	141	50
4	170	255	280	270	320	470	530	620	429	259	135	50
5	168	250	320	260	340	360	593	587	408	245	124	57
6	162	245	290	240	340	600	586	548	407	231	124	61
7	171	255	300	240	360	800	592	521	374	264	108	50
8	165	258	320	230	400	1030	590	515	376	230	97	50
9	171	262	330	230	450	1020	579	496	360	214	90	85
10	162	269	350	230	540	686	588	489	347	191	85	98
11	171	322	340	240	760	726	564	482	345	170	76	86
12	171	306	330	240	1000	700	547	488	342	155	75	99
13	179	283	320	250	1400	690	553	478	328	132	73	110
14	173	269	300	260	2200	694	551	491	305	123	79	118
15	180	265	290	260	2500	660	555	509	296	134	95	117
16	185	262	270	260	1600	805	589	482	280	124	102	143
17	190	318	270	250	1050	840	591	449	275	128	133	169
18	195	425	260	260	898	820	599	443	278	115	126	386
19	200	440	310	270	1180	925	614	422	283	115	112	272
20	204	340	300	230	1460	1000	619	405	275	106	100	222
21	210	270	290	250	1200	1160	635	406	244	103	89	203
22	217	230	280	270	1100	1110	661	1050	245	98	74	194
23	225	215	280	280	1040	1050	709	2120	241	93	69	168
24	230	205	280	270	1010	760	858	1600	268	84	59	162
25	235	200	290	260	1100	726	918	735	370	77	54	170
26	240	195	290	250	1030	684	801	825	349	70	53	175
27	240	240	290	245	840	678	966	742	377	86	45	173
28	245	270	290	280	780	710	943	1100	363	109	44	169
29	245	300	290	310	742	729	806	664	323	112	44	179
30	245	270	290	340	---	895	750	549	269	137	45	182
31	248	---	290	340	---	820	---	526	---	147	41	---
TOTAL	6102	8148	9130	8165	26620	24148	19864	20709	10180	4785	2789	4097
MEAN	197	272	295	263	918	779	662	668	339	154	90.0	137
MAX	248	440	350	340	2500	1160	966	2120	495	264	157	386
MIN	160	195	260	230	320	360	530	405	241	70	41	47
AC-FT	12100	16160	18110	16200	52800	47900	39400	41080	20190	9490	5530	8130
CAL YR 1975	TOTAL	174262	MEAN 477	MAX	3290	MIN 152	AC-FT	345600				
WTR YR 1976	TOTAL	144737	MEAN 395	MAX	2500	MIN 41	AC-FT	287100				

PLATTE RIVER BASIN

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06799450 LOGAN CREEK AT PENDER, NE

LOCATION.--Lat 42°06'40", long 96°42'00", in NW1/4 sec.26, T.25 N., R.6 E., Thurston County, Hydrologic Unit 10220004, on right bank 200 ft (61 m) downstream from bridge on Nebraska State Highway 94 at Pender and 0.7 mi (1.1 km) downstream from Rattlesnake Creek.

DRAINAGE AREA.--731 mi² (1,890 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,300.96 ft (396.533 m) above mean sea level. Prior to Apr. 23, 1966, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter period, which are poor.

AVERAGE DISCHARGE.--11 years, 134 ft³/s (3.795 m³/s), 97,080 acre-ft/yr (0.120 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,900 ft³/s (1,050 m³/s) Feb. 19, 1971, gage height, 23.11 ft (7.044 m); minimum daily, 12 ft³/s (0.34 m³/s) Aug. 11, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 850 ft³/s (24.1 m³/s) Feb. 15, gage height, 7.50 ft (2.286 m), from floodmark, backwater from ice, no peak above base of 1,500 ft³/s (42.5 m³/s); minimum daily, 12 ft³/s (0.34 m³/s) Aug. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	52	47	50	72	84	97	64	54	35	25	16
2	49	53	49	47	74	82	88	61	53	39	26	15
3	50	53	49	42	76	72	79	60	52	39	23	17
4	50	53	49	45	74	60	79	61	52	39	18	17
5	48	53	52	50	72	64	76	61	49	39	17	17
6	48	55	52	46	72	72	75	59	49	48	16	17
7	50	54	50	43	70	80	72	58	47	36	15	19
8	51	55	50	40	72	76	72	58	47	34	15	23
9	51	50	105	46	76	76	71	58	46	30	15	28
10	50	50	105	50	80	80	70	58	45	20	15	29
11	50	50	104	52	88	86	72	58	45	19	12	27
12	50	48	98	50	100	90	71	59	46	17	14	27
13	50	50	96	50	150	94	70	59	45	17	15	29
14	50	52	95	50	110	114	68	59	44	18	15	31
15	50	54	105	52	330	101	69	57	43	21	15	31
16	50	54	107	50	194	98	79	56	43	21	21	30
17	50	54	107	52	191	99	77	56	43	18	25	29
18	50	56	116	54	126	111	68	55	40	19	23	29
19	50	54	131	54	126	112	67	56	40	18	16	30
20	51	54	126	54	134	101	65	54	41	18	18	35
21	53	52	126	54	116	89	64	52	41	18	18	32
22	53	50	125	54	109	81	63	66	41	17	18	30
23	53	50	123	56	102	79	67	180	39	14	18	29
24	53	50	123	58	103	76	70	112	43	14	18	29
25	53	43	49	60	101	74	84	78	52	13	17	37
26	53	45	48	60	100	77	80	65	47	20	17	39
27	52	48	50	56	98	75	74	60	43	30	17	34
28	52	52	49	60	94	74	69	60	39	30	16	32
29	48	50	50	66	90	90	67	62	35	28	16	32
30	48	48	52	72	---	158	66	56	35	31	17	33
31	48	---	54	70	---	126	---	55	---	28	16	---
TOTAL	1562	1542	2542	1643	3200	2751	2189	2013	1339	788	547	823
MEAN	50.4	51.4	82.0	53.0	110	88.7	73.0	64.9	44.6	25.4	17.6	27.4
MAX	53	56	131	72	330	158	97	180	54	48	26	39
MIN	48	43	47	40	70	60	63	52	35	13	12	15
AC-FT	3100	3060	5040	3260	6350	5460	4340	3990	2660	1560	1080	1630
CAL YR 1975	TOTAL	30917	MEAN 84.7	MAX	2150	MIN 16	AC-FT	61320				
WTR YR 1976	TOTAL	20939	MEAN 57.2	MAX	330	MIN 12	AC-FT	41530				

PLATTE RIVER BASIN

06799450 LOGAN CREEK AT PENDER, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-68, 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT 29...	1600	56	752	8.1	11.5	15	12.0	7.1	16	100	6.7
NOV 10...	1500	64	727	7.8	9.5	15	12.6	8.0	350	940	13
DEC 02...	1500	55	846	7.7	.5	12	9.7	3.4	489	<4	13
JAN 13...	1500	63	812	6.5	.5	7	5.9	3.6	218	296	6.5
FEB 24...	1600	105	793	7.6	9.5	65	10.8	6.4	143	880	13
MAR 16...	1245	97	777	7.5	1.0	50	11.6	2.8	100	260	6.1
APR 28...	1600	67	799	7.5	15.5	25	9.3	--	700	430	8.2
MAY 21...	1200	51	740	8.6	--	30	8.5	3.4	130	324	5.2
JUN 09...	1600	45	739	7.8	29.5	35	7.4	1.4	270	276	8.9
JUL 22...	1200	16	744	7.6	28.0	7	6.4	5.8	212	172	11
AUG 13...	0930	14	782	8.0	20.0	5	7.1	3.0	480	460	12
SEP 21...	1415	32	774	8.1	22.0	8	9.8	5.2	100	184	19

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED PHOS- PHORUS (P) (MG/L) (00666)
OCT 29...	470	.64	71.1	.71	.05	.62	.67	1.4	.19	.11
NOV 10...	489	.67	84.9	.91	.23	.75	.98	1.9	.33	.13
DEC 02...	--	.67	72.6	1.5	.46	1.7	2.2	3.7	.23	.18
JAN 13...	513	.70	88.5	1.7	.30	9.7	10	12	.30	.30
FEB 24...	501	.68	142	2.0	.92	2.1	3.0	5.0	.81	.37
MAR 16...	--	.66	127	2.2	.09	.49	.50	2.7	.42	.24
APR 28...	517	.70	94.5	1.4	.00	.80	.80	2.2	.40	.23
MAY 21...	525	.71	72.3	.72	.08	.52	.60	1.3	.39	.25
JUN 09...	--	.62	56.5	.46	.04	.44	.48	.94	.35	.35
JUL 22...	390	.53	17.5	.00	.00	.43	.43	.43	.25	.17
AUG 13...	506	.69	19.1	.38	.10	.37	.47	.85	.30	.24
SEP 21...	--	.69	43.9	.99	.07	.41	.48	1.5	.31	.31

PLATTE RIVER BASIN

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06799450 LOGAN CREEK AT PENDER, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA+MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HC03) (MG/L) (00440)
DEC 02...	1500	7	350	50	100	25	28	.6	6.5	369
MAR 16...	1245	10	380	98	110	26	23	.5	7.6	346
JUN 09...	1600	1	340	82	90	28	26	.6	6.6	324
SEP 21...	1415	3	380	98	110	26	33	.7	6.7	346

DATE	CAR- BONATE (C03) (MG/L) (00445)	ALKA- LINITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
DEC 02...	0	303	110	.3	24	489	2	80	4	10
MAR 16...	0	284	120	.3	20	484	0	70	0	0
JUN 09...	0	258	120	.3	21	456	--	100	--	--
SEP 21...	0	284	120	.3	22	508	7	100	2	0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
DEC 02...	50	20	6	300	.1	.0	.1	13	0	120
MAR 16...	5	20	0	10	.2	.2	.0	15	0	0
JUN 09...	--	40	--	90	--	--	--	--	--	--
SEP 21...	3	60	8	50	--	--	.2	8	0	0

PLATTE RIVER BASIN

06799500 LOGAN CREEK NEAR UEHLING, NE

LOCATION.--Lat 41°42'50", long 96°31'15", on south line of SE1/4SE1/4 sec.9, T.20 N., R.8 E., Dodge County, Hydrologic Unit 10220004, near right bank on downstream side of bridge on county road, 2 mi (3 km) southwest of Uehling and 8 mi (13 km) upstream from mouth.

DRAINAGE AREA.--1,030 mi² (2,670 km²), approximately.

PERIOD OF RECORD.--March 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,208.73 ft (368.421 m) above mean sea level. See WSP 1918 for history of changes prior to July 15, 1963.

REMARKS.--Records good except those for winter period, which are poor. Periodic temperature and conductance measurements are published in tables for water quality at miscellaneous sites.

AVERAGE DISCHARGE.--35 years, 180 ft³/s (5.098 m³/s), 130,400 acre-ft/yr (0.161 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,200 ft³/s (714 m³/s) Feb. 20, 1971, gage height, 20.15 ft (6.142 m), from floodmark; maximum gage height, 20.15 ft (6.142 m), Mar. 27, 1962, present datum, Feb. 20, 1971; minimum daily discharge, 6.1 ft³/s (0.17 m³/s) July 26, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 5, 1940, reached a stage of 20.6 ft (6.28 m), present datum, from floodmarks, discharge, 22,200 ft³/s (629 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 1,450 ft³/s (41.1 m³/s) Feb. 15, gage height, 10.06 ft (3.066 m), backwater from ice, no peak above base of 1,500 ft³/s (42.5 m³/s); minimum daily, 6.1 ft³/s (0.17 m³/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	62	52	72	90	111	152	82	63	43	19	15
2	60	61	58	68	82	106	122	79	62	36	23	19
3	58	61	62	56	86	102	108	75	59	28	27	19
4	56	61	64	58	88	94	99	80	57	26	21	19
5	54	59	66	64	90	90	99	77	56	31	17	23
6	54	61	64	60	92	106	96	72	56	29	18	25
7	53	59	64	56	94	118	94	69	56	25	17	24
8	55	58	66	52	96	130	94	68	55	30	10	26
9	55	61	68	56	98	140	92	69	55	20	11	27
10	54	68	70	58	104	135	89	68	53	16	12	34
11	55	68	72	56	110	123	93	67	56	13	15	34
12	57	64	72	56	120	120	91	70	56	8.1	7.6	32
13	58	67	70	56	160	135	90	70	61	6.4	7.6	35
14	56	57	68	54	130	155	89	68	64	6.8	10	38
15	56	60	66	56	400	152	88	66	61	8.5	16	41
16	55	60	68	58	330	133	101	65	59	10	17	42
17	56	60	70	58	280	128	101	63	58	11	22	41
18	59	60	66	60	250	131	99	63	57	11	26	42
19	58	63	64	62	200	141	87	62	55	8.8	22	42
20	59	82	64	60	172	138	82	62	57	12	15	43
21	59	60	64	68	160	120	82	72	55	11	11	43
22	60	49	66	70	139	108	81	163	52	14	12	46
23	59	47	68	70	133	101	80	136	48	11	12	41
24	60	45	68	72	136	96	92	255	52	7.6	15	40
25	61	44	70	74	137	93	113	139	55	6.4	14	42
26	62	46	70	66	131	91	114	91	66	6.1	12	44
27	61	48	72	62	129	92	101	76	67	9.0	11	49
28	61	52	74	70	125	89	93	71	53	16	12	49
29	60	58	72	80	119	105	88	70	48	21	10	46
30	62	56	70	90	---	193	86	70	46	27	11	44
31	63	---	70	100	---	226	---	65	---	28	11	---
TOTAL	1798	1757	2078	1998	4281	3802	2896	2603	1698	536.7	464.2	1065
MEAN	58.0	58.6	67.0	64.5	148	123	96.5	84.0	56.6	17.3	15.0	35.5
MAX	63	82	74	100	400	226	152	255	67	43	27	49
MIN	53	44	52	52	82	89	80	62	46	6.1	7.6	15
AC-FT	3570	3490	4120	3960	8490	7540	5740	5160	3370	1060	921	2110
CAI YR 1975	TOTAL	46216.0	MEAN	127	MAX	2710	MIN	30	AC-FT	91670		
WTR YR 1976	TOTAL	24976.9	MEAN	68.2	MAX	400	MIN	6.1	AC-FT	49540		

PLATTE RIVER BASIN

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06800000 MAPLE CREEK NEAR NICKERSON, NE

LOCATION.--Lat 41°32'44", long 96°30'09", in NE1/4SW1/4 sec.10, T.18 N., R.8 E., Dodge County, Hydrologic Unit 10220003, on right bank 120 ft (37 m) upstream from bridge on U.S. Highways 77 and 275, 1.5 mi (2.4 km) northwest of Nickerson, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--450 mi² (1,170 km²), approximately.

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 1630: 1957-58.

GAGE.--Water-stage recorder. Datum of gage is 1,194.56 ft (364.102 m) above mean sea level. Prior to July 28, 1960, nonrecording gage at site 120 ft (37 m) downstream at present datum.

REMARKS.--Records fair except those for winter period, which are poor.

AVERAGE DISCHARGE.--25 years, 58.6 ft³/s (1.660 m³/s), 42,460 acre-ft/yr (52.4 hm³/yr); median of yearly mean discharges, 53 ft³/s (1.501 m³/s), 38,400 acre-ft/yr (47.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft³/s (306 m³/s) June 21, 1960, gage height, 14.67 ft (4.471 m); maximum gage height, 16.10 ft (4.907 m) Feb. 19, 1971, from floodmark, backwater from ice; minimum daily discharge, 0.1 ft³/s (0.003 m³/s) Jan. 15, 16, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since 1944, 16.28 ft (4.962 m) June 11, 1944, from floodmarks, discharge, 35,000 ft³/s (991 m³/s), from indirect measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 995 ft³/s (28.2 m³/s) May 23 at 1900, gage height, 8.50 ft (2.591 m), no other peak above base of 800 ft³/s (22.7 m³/s); maximum gage height, 8.84 ft (2.694 m) Feb. 16, backwater from ice; minimum daily discharge, 0.35 ft³/s (0.010 m³/s) Aug. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.2	4.5	4.3	8.4	8.0	50	17	26	1.5	.62	.47
2	2.2	2.4	5.2	3.4	8.0	6.6	34	14	22	1.3	.75	.56
3	1.9	1.9	5.2	2.5	10	5.6	25	12	18	1.2	.68	.62
4	1.7	1.7	5.4	1.8	9.4	6.2	21	10	15	1.3	.62	.62
5	1.0	2.2	5.8	2.2	8.6	6.8	16	8.2	13	1.2	.82	.68
6	1.0	2.7	4.4	1.1	8.0	7.4	14	5.6	12	.90	1.0	.62
7	1.0	2.2	4.7	.60	13	8.0	14	4.4	8.8	.90	.62	.68
8	1.2	2.4	5.0	.70	20	8.2	14	4.8	8.2	8.3	.62	1.2
9	.82	5.6	5.2	.80	22	10	13	4.8	7.1	1.3	.62	1.0
10	.90	6.1	5.4	.90	25	13	14	4.8	6.1	.82	.68	.75
11	.90	5.2	5.4	.90	23	16	12	4.4	4.0	.82	.75	.75
12	.90	7.1	5.6	1.0	40	20	10	6.1	3.3	.75	.62	.68
13	.82	5.2	5.4	1.0	45	10	9.4	8.8	3.0	.75	.51	1.0
14	.90	5.2	4.3	1.5	40	20	9.4	8.8	3.7	.82	1.0	.82
15	.90	4.0	3.8	2.0	70	37	9.4	7.6	2.7	1.0	.82	.82
16	1.0	3.7	4.1	1.9	300	39	12	6.6	2.2	1.0	.51	.68
17	1.2	5.6	3.9	1.8	110	39	13	6.1	1.7	1.0	.56	.68
18	1.2	4.8	3.5	2.5	50	37	15	4.8	1.7	.90	.56	.68
19	1.3	7.1	4.6	2.4	32	41	14	4.0	1.5	.90	.56	.90
20	2.2	9.6	4.5	2.0	25	34	11	4.0	1.2	.90	.56	.75
21	1.7	7.6	4.2	2.2	19	23	9.4	4.4	1.2	.82	.47	.75
22	1.5	5.8	4.4	2.6	21	15	8.8	365	1.3	.82	.47	.75
23	1.7	6.2	4.4	3.1	20	11	10	593	1.3	.90	.43	.68
24	1.7	5.6	4.4	3.0	19	10	16	332	1.7	.75	.47	.75
25	1.9	4.5	4.4	2.9	26	8.2	24	105	31	.62	.43	1.3
26	2.2	4.6	4.5	2.8	20	8.2	34	60	17	.75	.40	.90
27	2.4	4.6	4.4	4.5	16	7.6	28	45	5.6	1.0	.35	.75
28	2.4	4.7	4.5	5.6	11	8.2	21	37	2.4	.90	.40	.75
29	1.9	5.2	4.6	7.0	9.2	14	20	156	1.7	.90	.51	.75
30	1.9	4.9	4.2	9.0	---	82	19	56	1.3	1.0	.40	.82
31	4.8	---	4.4	8.6	---	120	---	33	---	.90	.43	---
TOTAL	49.54	140.6	144.3	86.60	1028.6	680.0	520.4	1933.2	225.7	36.92	18.24	23.16
MEAN	1.60	4.69	4.65	2.79	35.5	21.9	17.3	62.4	7.52	1.19	.59	.77
MAX	4.8	9.6	5.8	9.0	300	120	50	593	31	8.3	1.0	1.3
MIN	.82	1.7	3.5	.60	8.0	5.6	8.8	4.0	1.2	.62	.35	.47
AC-FT	98	279	286	172	2040	1350	1030	3830	448	73	36	46

CAL YR 1975 TOTAL 17592.64 MEAN 48.2 MAX 2170 MIN .82 AC-FT 34890
WTR YR 1976 TOTAL 4887.26 MEAN 13.4 MAX 593 MIN .35 AC-FT 9690

PLATTE RIVER BASIN

06800500 ELKHORN RIVER AT WATERLOO, NE

LOCATION.--Lat 41°17'25", long 96°17'05", in SW1/4 sec.3, T.15 N., R.10 E., Douglas County, Hydrologic Unit 10220003, on right bank 100 ft (30 m) upstream from bridge at north edge of Waterloo and 3.5 mi (5.6 km) downstream from Rawhide Creek.

DRAINAGE AREA.--6,900 mi² (17,900 km²), approximately, of which about 5,870 mi² (15,200 km²) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1899 to November 1903, May 1911 to September 1915, August 1928 to current year. Published as "at Arlington" 1899-1903, July 1913 to September 1915. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1390: 1914(M), 1915, 1936, 1943(M). WDR NE-74: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,106.73 ft (337.331 m) above mean sea level. See WSP 1918 for history of changes prior to Oct. 1, 1960.

REMARKS.--Records good except those for winter period, which are poor. Some small diversions above station for irrigation.

AVERAGE DISCHARGE.--56 years, 1,129 ft³/s (31.97 m³/s), 818,000 acre-ft/yr (1.01 km³/yr); median of yearly mean discharges, 1,000 ft³/s (28.32 m³/s), 724,500 acre-ft/yr (0.893 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 100,000 ft³/s (2,830 m³/s) June 12, 1944, gage height, 16.6 ft (5.06 m) from floodmark in gage well, site and datum then in use, from rating curve extended above 22,000 ft³/s (623 m³/s) on basis of current-meter measurement of peak flow in main channel and velocity-area studies of overflow section; minimum observed, 50 ft³/s (1.42 m³/s) Nov. 12, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.--Stage and discharge of the flood of June 12, 1944, are the greatest known since at least 1880.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,050 ft³/s (171 m³/s) May 24 at 0400, gage height, 5.87 ft (1.789 m), no other peak above base of 6,000 ft³/s (170 m³/s); maximum gage height, 6.22 ft (1.896 m) Feb. 16, backwater from ice; minimum daily discharge, 69 ft³/s (1.95 m³/s) Sept. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	290	362	460	430	600	1190	2040	908	879	394	162	76
2	294	362	520	380	620	1110	1470	858	816	350	170	73
3	290	366	580	370	640	980	1220	795	760	342	155	71
4	290	375	540	350	600	900	1110	767	718	326	162	80
5	290	375	506	340	600	640	1020	742	682	318	157	76
6	286	385	460	320	580	700	940	736	658	326	152	69
7	272	380	506	310	560	900	908	700	616	322	140	69
8	258	375	537	300	580	1100	948	688	622	306	128	78
9	252	395	544	310	600	1240	908	676	575	322	114	85
10	252	440	530	310	620	1380	872	658	565	281	102	87
11	249	476	642	320	640	1170	872	640	545	235	97	87
12	252	506	621	330	720	1130	879	694	495	212	90	104
13	255	506	621	350	1140	1060	851	736	495	198	85	109
14	258	450	580	380	1550	960	823	700	490	170	126	111
15	258	420	540	430	2000	1100	823	706	465	168	123	130
16	258	425	520	410	4000	1160	823	706	430	162	111	152
17	262	435	500	400	2860	1190	886	712	430	152	126	165
18	269	435	480	400	2010	1220	893	652	398	145	130	165
19	280	465	560	390	1710	1280	886	622	402	142	152	198
20	294	663	520	380	1830	1300	865	598	378	140	150	281
21	302	712	500	450	1970	1490	865	592	366	142	123	281
22	310	425	490	490	1580	2120	865	2050	350	145	104	225
23	322	300	480	540	1450	1960	893	4030	330	138	97	212
24	322	290	470	520	1290	1580	932	4590	338	133	94	216
25	326	220	470	500	1290	1370	1120	2920	346	116	85	212
26	342	210	460	490	1190	1200	1190	1660	390	92	87	219
27	346	220	460	470	1220	1060	940	1260	565	99	89	232
28	354	270	450	540	1210	1010	1020	1110	530	111	85	228
29	354	400	450	640	1220	989	1050	1440	485	121	80	235
30	354	500	450	620	---	1500	1010	1160	422	142	73	232
31	354	---	450	620	---	2490	---	948	---	150	71	---
TOTAL	9095	12143	15897	13090	36880	38479	29922	36054	15541	6400	3620	4558
MEAN	293	405	513	422	1272	1241	997	1163	518	206	117	152
MAX	354	712	642	640	4000	2490	2040	4590	879	394	170	281
MIN	249	210	450	300	560	640	823	592	330	92	71	69
AC-FT	18040	24090	31530	25960	73150	76320	59350	71510	30830	12690	7180	9040

CAL YR 1975 TOTAL 301214 MEAN 825 MAX 8370 MIN 210 AC-FT 597500
WTR YR 1976 TOTAL 221679 MEAN 606 MAX 4590 MIN 69 AC-FT 439700

PLATTE RIVER BASIN

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06800500 ELKHORN RIVER AT WATERLOO, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)
OCT										
15...	1230	257	554	8.0	14.0	23	--	--	9.2	--
NOV										
12...	1045	508	500	7.9	4.0	10	70	10.9	5.9	1770
DEC										
10...	1100	502	513	7.0	3.5	15	15	13.0	6.5	933
JAN										
27...	1230	474	498	7.2	.5	5	10	11.0	6.6	600
FEB										
12...	1200	715	519	7.7	1.0	7	15	10.5	--	600
MAR										
09...	1100	1160	489	7.3	1.0	2	40	--	5.6	633
APR										
05...	1145	1000	530	7.7	11.5	25	55	8.7	1.4	667
MAY										
13...	1200	752	486	8.5	8.0	5	40	9.6	9.1	2100
24...	1325	4300	317	7.8	15.5	36	2500	7.4	7.8	351000
JUN										
08...	1115	620	514	7.7	24.0	9	55	6.6	21	967
JUL										
13...	1030	201	546	7.6	27.0	12	--	9.8	--	3900
AUG										
10...	1030	97	615	8.2	25.0	22	20	8.3	12	4900
SEP										
15...	1215	128	588	7.8	16.5	10	25	9.6	18	2538

DATE	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HC03) (MG/L) (00440)	CAR- BONATE (C03) (MG/L) (00445)
OCT										
15...	--	230	8	62	18	31	.9	9.0	269	0
NOV										
12...	800	220	10	66	14	24	.7	7.4	259	0
DEC										
10...	2240	230	16	67	14	24	.7	8.4	255	0
JAN										
27...	92	230	3	67	14	24	.7	7.2	270	0
FEB										
12...	240	210	3	64	13	21	.6	7.7	257	0
MAR										
09...	144	210	3	61	13	27	.8	8.1	247	0
APR										
05...	432	220	10	66	14	21	.6	10	259	0
MAY										
13...	600	200	6	60	13	20	.6	7.3	237	0
24...	193000	120	0	34	7.8	11	.4	8.0	194	0
JUN										
08...	92	230	12	67	14	24	.7	9.0	260	0
JUL										
13...	400	200	7	54	16	31	1.0	9.7	236	0
AUG										
10...	380	200	30	53	16	45	1.4	9.8	205	0
SEP										
15...	3600	190	41	48	17	46	1.5	9.3	181	0

06800500 ELKHORN RIVER AT WATERLOO, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SiO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	
OCT 15...	221	56	23	.3	18	350	.48	243	.07	
NOV 12...	212	46	18	.3	24	327	.44	449	1.1	
DEC 10...	209	43	17	.3	27	326	.44	442	1.2	
JAN 27...	221	49	17	.3	29	341	.46	436	1.4	
FEB 12...	211	43	13	.3	28	317	.43	612	1.4	
MAR 09...	203	36	24	.4	26	317	.43	993	.73	
APR 05...	212	42	11	.4	26	318	.43	859	1.8	
MAY 13...	194	46	11	--	19	294	.40	597	.09	
24...	159	23	9.2	.4	12	206	.28	2390	1.2	
JUN 08...	213	45	15	.4	26	329	.45	551	.14	
JUL 13...	194	58	25	.4	30	341	.46	185	.86	
AUG 10...	168	69	41	.5	24	360	.49	94.3	.78	
SEP 15...	148	88	38	.4	16	352	.48	122	.63	
DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	
OCT 15...	.30	3.1	3.4	3.5	.65	.43	90	80	20	
NOV 12...	.35	1.7	2.0	3.1	.72	.45	70	0	10	
DEC 10...	1.1	1.3	2.4	3.6	.59	.48	60	0	10	
JAN 27...	.81	.99	1.8	3.2	.55	.48	50	10	50	
FEB 12...	.58	1.0	1.6	3.0	.42	.40	0	20	60	
MAR 09...	.57	2.1	2.7	3.4	.66	.28	40	30	30	
APR 05...	.04	1.9	1.9	3.7	.63	.41	50	10	10	
MAY 13...	.27	1.9	2.2	2.3	.59	.31	--	10	0	
24...	.76	18	19	20	5.9	.27	40	30	0	
JUN 08...	.32	1.9	2.2	2.3	.76	.39	70	0	0	
JUL 13...	.41	1.3	1.7	2.6	.95	.72	110	0	30	
AUG 10...	.37	2.4	2.8	3.6	1.3	.89	110	40	40	
SEP 15...	.00	3.2	3.2	3.8	1.4	.85	110	80	40	
DATE	TIME	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L) (00608)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L) (00607)	SUS- PENDED KJEL. NITRO- GEN (N) (MG/L) (00624)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L) (00623)	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS- PENDED ARSENIC (AS) (UG/L) (01001)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)
MAY 13...	1200	26	.09	.03	.70	1.5	.73	11	5	6
24...	1325	600	1.0	.65	1.9	17	2.5	75	74	1
SEP 15...	1215	--	--	--	--	--	--	--	--	--

PLATTE RIVER BASIN

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06800500 ELKHORN RIVER AT WATERLOO, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL CAD- MIUM (CD) (UG/L) (01027)	SUS- PENDE D CAD- MIUM (CD) (UG/L) (01026)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	TOTAL CHRO- MIUM (CR) (UG/L) (01034)	SUS- PENDE D CHRO- MIUM (CR) (UG/L) (01031)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS- PENDE D COBALT (CO) (UG/L) (01036)	DIS- SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)
MAY 13...	2	2	0	<10	0	<10	2	2	0	20
24...	5	4	1	30	30	<0	52	52	0	90
SEP 15...	--	--	6	--	--	0	--	--	--	--

DATE	SUS- PENDE D COPPER (CU) (UG/L) (01041)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	SUS- PENDE D LEAD (PB) (UG/L) (01050)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN- GANESE (MN) (UG/L) (01055)	SUS- PENDE D MAN- GANESE (MN) (UG/L) (01054)	TOTAL MERCURY (HG) (UG/L) (71900)
MAY 13...	0	0	2200	32	32	0	330	330	<.5
24...	90	0	23000	100	98	2	5900	5900	<.5
SEP 15...	--	5	--	--	--	60	--	--	.1

DATE	SUS- PENDE D MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	SUS- PENDE D SELE- NIUM (SE) (UG/L) (01146)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS- PENDE D ZINC (ZN) (UG/L) (01091)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
MAY 13...	.0	<.5	5	0	5	7	20	10	10
24...	.0	<.5	4	0	4	0	240	240	0
SEP 15...	.1	.0	--	--	4	0	--	--	10

DATE	TIME	TOTAL PCB (UG/L) (39516)	DIS- SOLVED PCB (UG/L) (39517)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L) (39250)	DIS- SOLVED ALDRIN (UG/L) (39331)	TOTAL ALDRIN (UG/L) (39330)	DIS- SOLVED CHLOR- DANE (UG/L) (39352)	TOTAL CHLOR- DANE (UG/L) (39350)	DIS- SOLVED DDD (UG/L) (39361)	TOTAL DDD (UG/L) (39360)	DIS- SOLVED DDE (UG/L) (39366)
MAY 13...	1200	.0	--	.00	--	.00	--	.0	--	.00	--
24...	1325	--	.0	--	.00	--	.0	--	.00	--	.00

DATE	TOTAL DDE (UG/L) (39365)	DIS- SOLVED DDT (UG/L) (39371)	TOTAL DDT (UG/L) (39370)	DIS- SOLVED DI- AZINON (UG/L) (39572)	TOTAL DI- AZINON (UG/L) (39570)	DIS- SOLVED DI- ELDRIN (UG/L) (39381)	TOTAL DI- ELDRIN (UG/L) (39380)	DIS- SOLVED ENDRIN (UG/L) (39391)	TOTAL ENDRIN (UG/L) (39390)	TOTAL ETHION (UG/L) (39398)	DIS- SOLVED HEPTA- CHLOR (UG/L) (39411)
MAY 13...	.00	--	.00	--	.00	--	.00	--	.00	.00	--
24...	--	.00	--	.01	--	.00	--	.00	--	--	.00

PLATTE RIVER BASIN

06800500 ELKHORN RIVER AT WATERLOO, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL HEPTA- CHLOR (UG/L) (39410)	DIS- SOLVED HEPTA- CHLOR EPOXIDE (UG/L) (39421)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L) (39420)	DIS- SOLVED LINDANE (UG/L) (39341)	TOTAL LINDANE (UG/L) (39340)	DIS- SOLVED MALA- THION (UG/L) (39532)	TOTAL MALA- THION (UG/L) (39530)	DIS- SOLVED METHYL PARA- THION (UG/L) (39602)	TOTAL METHYL PARA- THION (UG/L) (39600)	TOTAL METHYL TRI- THION (UG/L) (39790)	DIS- SOLVED PARA- THION (UG/L) (39542)
MAY 13...	.00	--	.00	--	.00	--	.00	--	.00	.00	--
24...	--	.00	--	.00	--	.00	--	.00	--	--	.00

DATE	TOTAL PARA- THION (UG/L) (39540)	DIS- SOLVED TOX- APHENE (UG/L) (39401)	TOTAL TOX- APHENE (UG/L) (39400)	TOTAL TRI- THION (UG/L) (39786)	DIS- SOLVED 2,4-D (UG/L) (39732)	TOTAL 2,4-D (UG/L) (39730)	DIS- SOLVED 2,4,5-T (UG/L) (39742)	TOTAL 2,4,5-T (UG/L) (39740)	DIS- SOLVED SILVEX (UG/L) (39762)	TOTAL SILVEX (UG/L) (39760)
MAY 13...	.00	--	0	.00	--	.63	--	.00	--	.00
24...	--	0	--	--	.15	--	.03	--	.00	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	TEMPER- ATURE (DEG C) (00010)	SUS- PENDE SEDI- MENT CHARGE (MG/L) (80154)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN .004 MM (70338)	SUS. SED. FALL DIAM. % FINER THAN .016 MM (70340)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN .500 MM (70345)
MAY 13...	1200	752	8.0	242	491	--	--	--	--	--	--	--
24...	1325	4300	15.5	9050	105000	37	51	68	91	95	99	100

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	NUMBER OF SAM- PLING POINTS (00063)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. FALL DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. FALL DIAM. % FINER THAN 8.00 MM (80171)
MAY 24...	1350	4300	5	0	1	29	73	91	95	99	100

PLATTE RIVER BASIN

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06803000 SALT CREEK AT ROCA, NE

LOCATION.--Lat 40°39'29", long 96°39'55", in NW1/4SW1/4 sec.17, T.8 N., R.7 E., Lancaster County, Hydrologic Unit 10200203, on left bank 15 ft (5 m) downstream from highway bridge at west edge of Roca.

DRAINAGE AREA.--167 mi² (433 km²).

PERIOD OF RECORD.--May 1951 to current year.

REVISED RECORDS.-- WDR NE-71: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,192.50 ft (363.474 m) above mean sea level, Kansas City supplementary adjustment of 1943. Prior to May 16, 1956, nonrecording gage at present site and datum.

REMARKS.--Records fair except those for winter period and periods of backwater from beaver dams, which are poor. Flood flow affected by several detention dams.

AVERAGE DISCHARGE.--25 years, 41.2 ft³/s (1.167 m³/s), 29,850 acre-ft/yr (36.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,700 ft³/s (473 m³/s) July 10, 1958, gage height, 22.70 ft (6.919 m); minimum daily, 0.2 ft³/s (0.006 m³/s) July 23, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 8, 1950, reached a stage of 26.0 ft (7.92 m), from floodmark established by Corps of Engineers, discharge, 67,000 ft³/s (1,900 m³/s), but may have been exceeded by flood of July 5, 1908.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 657 ft³/s (18.6 m³/s) Apr. 24, gage height, 9.47 ft (2.886 m), no peak above base of 850 ft³/s (24.1 m³/s); minimum daily, 2.4 ft³/s (0.068 m³/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	7.4	9.5	6.9	9.1	11	22	54	15	4.4	7.4	3.9
2	3.5	7.4	8.3	5.8	8.7	10	14	43	14	6.6	7.4	4.5
3	3.0	7.6	7.9	6.1	8.3	10	9.4	31	13	8.1	6.3	5.7
4	3.2	7.4	7.9	4.6	9.0	9.5	5.9	27	13	7.4	5.3	7.0
5	2.4	7.4	7.7	4.9	8.7	9.0	5.3	25	11	6.8	4.9	6.3
6	2.6	7.2	7.1	5.6	9.1	9.0	4.6	22	11	6.4	5.0	5.7
7	2.6	7.2	6.4	5.4	9.4	9.5	21	20	10	14	5.2	5.7
8	3.0	7.2	6.2	4.8	11	10	41	19	9.6	12	5.1	5.5
9	4.2	9.4	6.1	5.3	12	13	15	18	9.1	7.7	4.2	5.2
10	4.2	9.0	6.7	6.4	13	24	11	17	8.8	6.5	4.1	5.2
11	5.1	8.6	7.1	7.5	12	14	8.5	14	8.9	6.1	3.8	5.2
12	5.0	8.0	6.9	8.1	11	14	7.0	16	8.1	22	3.6	4.5
13	3.9	7.4	6.8	8.6	11	11	6.4	28	8.1	76	4.0	3.1
14	4.6	7.2	8.6	8.6	11	9.4	6.9	22	6.9	57	5.8	3.6
15	5.1	8.0	8.1	8.6	11	10	150	21	6.9	57	5.9	4.5
16	5.1	7.9	7.1	9.0	13	11	189	20	6.6	60	5.0	4.2
17	5.2	8.0	6.8	8.4	14	12	90	19	6.6	57	5.4	4.2
18	5.5	8.0	5.6	8.2	12	15	76	17	6.9	50	5.5	4.1
19	5.4	10	5.9	9.0	11	14	54	15	6.8	46	5.4	4.6
20	4.9	19	6.8	8.8	10	16	46	14	7.0	44	5.3	4.5
21	5.7	11	6.7	9.0	13	14	51	13	7.5	127	5.5	4.1
22	7.8	6.7	6.6	8.9	11	13	52	30	7.4	58	5.2	4.1
23	6.0	6.1	6.4	8.8	11	13	42	148	7.2	29	4.9	4.8
24	5.9	5.4	6.9	8.5	14	14	395	68	12	17	4.3	4.7
25	6.5	5.8	7.8	8.5	15	15	209	43	12	13	4.6	5.8
26	7.0	6.0	7.9	8.2	14	16	94	33	8.7	11	4.9	6.9
27	6.3	7.1	7.9	7.6	13	15	126	26	7.8	9.8	4.7	5.0
28	6.3	7.6	7.9	8.1	13	14	127	22	7.4	8.7	3.7	4.3
29	6.5	9.3	8.0	9.4	13	17	77	20	6.9	8.4	4.5	4.6
30	6.8	9.5	7.8	8.9	---	120	63	22	6.0	8.2	4.2	4.8
31	7.2	---	7.3	8.9	---	65	---	17	---	8.0	3.6	---
TOTAL	154.6	243.8	224.7	235.4	331.3	557.4	2019.0	904	270.2	853.1	154.7	146.3
MEAN	4.99	8.13	7.25	7.59	11.4	18.0	67.3	29.2	9.01	27.5	4.99	4.88
MAX	7.8	19	9.5	9.4	15	120	395	148	15	127	7.4	7.0
MIN	2.4	5.4	5.6	4.6	8.3	9.0	4.6	13	6.0	4.4	3.6	3.1
AC-FT	307	484	446	467	657	1110	4000	1790	536	1690	307	290

CAL YR 1975 TOTAL 6400.2 MEAN 17.5 MAX 220 MIN 1.8 AC-FT 12690
WTE YR 1976 TOTAL 6094.5 MEAN 16.7 MAX 395 MIN 2.4 AC-FT 12090

NOTE.--Stage-discharge relation affected by backwater from ice or beaver dams and ice Oct. 1 to Mar. 15, Aug. 14 to Sept. 30.

PLATTE RIVER BASIN

06803080 SALT CREEK ABOVE BEAL SLOUGH, AT LINCOLN, NE

LOCATION.--Lat 40°46'13"N, long 96°43'05"W, in SW1/4SW1/4 sec.2, T.9 N., R.6 E., Lancaster County, Hydrologic Unit 10200203, at county road bridge 0.9 mi (1.4 km) west of U.S. Highway 77 and of northeast corner of State Penitentiary at Lincoln.

DRAINAGE AREA.--221 mi² (572 km²).

PERIOD OF RECORD.--Water year 1971 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL- PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)
OCT											
31...	0840	9.2	1600	7.2	10.0	20	9.4	19	--	50	330
NOV											
19...	0900	10	1500	7.7	10.0	25	9.5	18	1.8	60	330
DEC											
10...	1230	9.6	1290	--	3.0	6	13.2	10	4.0	30	120
JAN											
20...	0915	10	2410	7.6	.5	5	14.9	16	4.2	17	2
FEB											
09...	1300	12	1160	6.7	1.0	--	13.6	15	3.9	7	8
MAR											
01...	1005	15	1050	300	4.0	15	12.0	35	4.2	12	20
APR											
14...	1305	19	892	7.8	19.5	40	8.6	39	4.0	50	64
MAY											
27...	1330	31	830	7.4	20.5	90	6.6	46	5.3	1570	1180
JUN											
15...	0930	11	1190	--	18.0	50	7.4	--	5.6	800	350
23...	1100	10	1110	7.9	21.0	45	6.3	32	--	--	--
JUL											
07...	0930	7.7	1160	7.3	23.0	30	6.8	40	6.4	410	380
AUG											
17...	1000	8.0	1920	7.5	20.0	25	5.8	67	2.4	210	440
SEP											
29...	1315	7.1	2140	7.4	15.0	10	10.3	39	4.0	154	345

DATE	TOTAL CAL- CIUM (CA) (00916)	TOTAL MAG- NE- SIUM (MG) (00927)	TOTAL SODIUM (NA) (00929)	TOTAL PO- TAS- SIUM (K) (00937)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)
OCT										
31...	130	--	190	8.5	312	--	256	10	300	1000
NOV										
19...	110	22	180	7.9	29	0	24	150	250	887
DEC										
10...	110	18	110	6.6	2760	0	2260	120	160	715
JAN										
20...	110	24	140	7.8	332	0	272	170	190	817
FEB										
09...	110	22	110	7.2	320	0	262	130	140	731
MAR										
01...	120	21	100	9.6	--	0	--	100	130	630
APR										
14...	92	19	85	8.6	320	0	262	79	89	555
MAY										
27...	--	--	--	--	284	0	233	84	62	481
JUN										
15...	--	--	--	--	--	--	--	--	--	--
23...	120	20	120	7.7	316	0	259	100	140	674
JUL										
07...	96	30	1500	25	312	0	256	110	130	634
AUG										
17...	--	25	--	9.9	248	0	203	230	390	1080
SEP										
29...	210	25	290	9.1	184	0	151	230	450	1270

PLATTE RIVER BASIN

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06803080 SALT CREEK ABOVE BEAL SLOUGH, AT LINCOLN, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1975

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL RESI- DUE (MG/L) (00500)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT 31...	1.36	24.8	1040	.19	.09	1.4	1.5	1.7	.32	.32
NOV 19...	1.21	23.9	942	.35	.13	1.8	1.9	2.3	.25	.22
DEC 10...	.97	18.5	738	.50	.04	.43	.47	.97	.23	.20
JAN 20...	1.11	23.4	828	.38	.05	.83	.88	1.3	.20	.19
FEB 09...	.99	23.7	727	.28	.02	.38	.40	.68	.19	.16
MAR 01...	.86	25.5	653	1.5	.09	1.5	1.6	3.1	.25	.21
APR 14...	.75	29.4	625	.60	.09	1.4	1.5	2.1	.34	.24
MAY 27...	.65	40.3	3300	1.8	.05	1.7	1.7	3.5	.60	.24
JUN 15...	--	--	--	--	--	--	--	--	--	--
JUN 23...	.92	18.2	1230	.83	.01	.92	.93	1.8	.38	.23
JUL 07...	.86	13.2	748	.27	.10	1.0	1.1	1.4	.46	.23
AUG 17...	1.47	23.3	1190	.06	.00	.48	.48	.54	2.4	.13
SEP 29...	1.73	24.4	1330	.30	.04	.77	.81	1.1	.24	.24

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)
NOV 19...	0900	3	260	240	100	2.2	180	4.9	25
FEB 09...	1300	5	340	77	100	21	100	2.4	7.2
MAY 27...	1330	8	240	7	68	17	62	1.7	9.3
AUG 17...	1000	22	380	180	110	26	270	6.0	9.7

PLATTE RIVER BASIN

06803080 SALT CREEK ABOVE BEAL SLOUGH, AT LINCOLN, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUORIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SI02) (MG/L) (00955)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS-SOLVED BORON (B) (UG/L) (01020)	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED MANGANESE (MN) (UG/L) (01056)	DIS-SOLVED SELENIUM (SE) (UG/L) (01145)	DIS-SOLVED SILVER (AG) (UG/L) (01075)
NOV 19...	.4	19	742	130	0	390	1	0
FEB 09...	.3	16	673	190	10	350	--	--
MAY 27...	.4	17	460	100	20	10	1	0
AUG 17...	.4	7.3	1170	220	30	400	--	--

DATE	TIME	TOTAL PCB (UG/L) (39516)	POLY- CHLORINATED NAPHTHALENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	TOTAL CHLORDANE (UG/L) (39350)	TOTAL DDD (UG/L) (39360)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI- AZINON (UG/L) (39570)	TOTAL DI- ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL ETHION (UG/L) (39398)
NOV 19...	0900	.0	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
FEB 09...	1300	.0	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
MAY 27...	1330	.0	.00	.00	.0	.00	.00	.00	.01	.00	.00	.00
AUG 17...	1000	.0	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTA- CHLOR (UG/L) (39410)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L) (39420)	TOTAL LINDANE (UG/L) (39340)	TOTAL MALATHION (UG/L) (39530)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL METHYL TRITHION (UG/L) (39790)	TOTAL PARATHION (UG/L) (39540)	TOTAL TOXAPHENE (UG/L) (39400)	TOTAL TRITHION (UG/L) (39786)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
NOV 19...	.00	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
FEB 09...	.00	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAY 27...	.00	.00	.00	.00	.00	.00	.00	0	.00	.17	.03	.00
AUG 17...	.00	.00	.00	.00	.00	.00	.00	0	.00	.01	.00	.00

PLATTE RIVER BASIN

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06803500 SALT CREEK AT LINCOLN, NE

LOCATION.--Lat 40°50'49"N, long 96°40'54"W, in NW1/4SW1/4 sec.7, T.10 N., R.7 E., Lancaster County, Hydrologic Unit 10200203, near center of channel on downstream side of pier of bridge on North 27th Street at north edge of Lincoln, 1 mi (2 km) downstream from Oak Creek.

DRAINAGE AREA.--684 mi² (1,772 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WDR NE-71: Drainage area.

GAGE.--Water-stage recorder for stages above 6.2 ft (1.89 m); nonrecording gage read twice daily. Datum of gage is 1,113.9 ft (339.52 m) above mean sea level.

REMARKS.--Records fair. Flood flow affected by several detention dams.

AVERAGE DISCHARGE.--27 years, 201 ft³/s (5.692 m³/s), 145,600 acre-ft/yr (0.180 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,200 ft³/s (799 m³/s) June 2, 1951, gage height, 26.15 ft (7.971 m); minimum daily, 22 ft³/s (0.62 m³/s) Mar. 15, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 2, 1951, may have been equaled or exceeded in discharge by flood of July 6, 1908, which reached a stage of 33.6 ft (10.24 m). Channel changes since 1908 have materially altered the stage-discharge relation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 610 ft³/s (17.3 m³/s) Apr. 25, gage height, 5.60 ft (1.707 m), no peak above base of 3,000 ft³/s (85.0 m³/s); minimum daily, 33 ft³/s (0.93 m³/s) June 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	77	97	71	73	81	179	156	81	127	61	69
2	65	77	88	65	79	77	127	122	77	101	65	65
3	65	83	79	61	75	75	101	111	75	71	57	65
4	57	83	75	52	79	77	81	97	69	57	57	57
5	52	81	73	63	79	83	83	99	67	57	59	52
6	63	83	73	65	75	83	79	97	59	61	55	59
7	63	81	67	63	69	106	111	83	67	57	50	67
8	63	73	77	61	67	114	135	69	67	57	46	71
9	65	94	71	61	75	114	135	65	67	57	54	67
10	67	81	67	50	77	111	99	69	67	57	54	63
11	61	79	71	50	71	122	97	65	33	54	59	59
12	52	79	71	61	77	111	92	156	48	50	59	50
13	71	77	67	69	75	90	90	132	43	59	55	73
14	73	73	119	71	73	86	97	106	46	135	55	67
15	67	67	75	71	77	104	156	94	75	119	55	97
16	69	63	86	75	122	97	331	135	73	158	61	69
17	73	69	69	69	106	88	259	90	59	355	59	61
18	65	69	67	59	97	83	156	86	59	114	59	55
19	61	156	67	71	88	83	143	73	65	122	59	79
20	73	208	67	69	79	88	132	67	45	119	57	73
21	79	119	61	71	135	77	127	67	48	135	57	63
22	75	99	73	71	104	81	117	150	52	325	52	61
23	79	77	73	71	111	69	143	232	61	331	61	61
24	81	92	71	71	92	77	508	253	127	104	63	69
25	75	75	63	71	90	71	520	143	73	83	63	200
26	73	75	71	73	88	77	265	117	66	86	63	92
27	81	71	71	77	81	65	304	94	60	79	61	81
28	86	77	71	79	75	59	343	101	56	73	57	69
29	83	130	83	71	75	189	226	145	64	73	48	59
30	88	77	71	79	---	283	192	81	80	86	61	59
31	81	---	81	92	---	262	---	77	---	73	65	---
TOTAL	2171	2645	2315	2103	2464	3183	5428	3432	1929	3435	1787	2132
MEAN	70.0	88.2	74.7	67.8	85.0	103	181	111	64.3	111	57.6	71.1
MAX	88	208	119	92	135	283	520	253	127	355	65	200
MIN	52	63	61	50	67	59	79	65	33	50	46	50
AC-FT	4310	5250	4590	4170	4890	6310	10770	6810	3830	6810	3540	4230
CAL YR 1975	TOTAL	48889	MEAN	134	MAX	622	MIN	48	AC-FT	96970		
WTF YR 1976	TOTAL	33024	MEAN	90.2	MAX	520	MIN	33	AC-FT	65500		

PLATTE RIVER BASIN

06803500 SALT CREEK AT LINCOLN, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951, 1952-54, 1968 to current year.

PERIOD OF DAILY RECORD:

SPECIFIC CONDUCTANCE: October 1968 to current year.

WATER TEMPERATURES: May to September 1951, October 1968 to current year.

SUSPENDED SEDIMENT DISCHARGE: March to September 1951, March 1952 to September 1954.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 37,500 micromhos Oct. 3, 1973; minimum daily, 170 micromhos Oct. 11, 1973.

WATER TEMPERATURES: Maximum, 36.5°C June 20, 1974; minimum, 0.0°C on several days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily, 41,100 mg/L Mar. 31, 1952; minimum daily not determined.

SEDIMENT LOADS: Maximum daily, 857,000 tons (780,000 tonnes) June 2, 1951; minimum daily not determined.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 7,130 micromhos Aug. 15; minimum daily, 1,020 micromhos Apr. 25.

WATER TEMPERATURES: Maximum, 29.5°C July 23; minimum, 3.5°C Jan. 3.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
OCT 31...	0830	71	6580	7.0	15.0	15	8.7	19	310	500	1900
NOV 21...	1200	130	4460	7.4	6.5	25	8.8	13	2300	933	1200
DEC 10...	1430	88	4960	--	12.5	15	10.8	26	30	272	1300
JAN 20...	0945	69	4930	7.3	1.5	7	11.4	20	10	116	1300
FEB 10...	1510	83	4150	6.7	9.0	8	12.7	14	<3	<4	1100
MAR 01...	1200	93	3640	7.4	4.0	15	12.6	16	<3	4	910
APR 13...	1415	95	4230	7.6	19.5	1	8.8	26	20	16	1000
MAY 26...	1230	123	3150	7.5	19.5	70	7.2	6.7	<3	4	750
JUN 15...	1100	81	5530	--	18.5	15	6.2	5.7	37	12	--
JUL 06...	1200	69	2610	7.7	24.0	4	8.4	16	3	<4	560
AUG 23...	1215	71	6330	7.8	26.0	10	9.9	12	8	4	1700

DATE	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (TENS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TENS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DIS-SOLVED PHOSPHORUS (P) (MG/L) (00666)
OCT 31...	3800	5.17	728	.49	9.5	9.5	19	19	5.4	5.1
NOV 21...	2590	3.52	909	.95	12	1.0	13	14	3.5	3.2
DEC 10...	2860	3.89	686	1.4	9.9	8.1	18	19	5.4	5.4
JAN 20...	2850	3.88	531	1.1	9.9	7.1	17	18	6.9	6.9
FEB 10...	2380	3.24	538	.79	8.6	8.4	17	18	5.4	5.4
MAR 01...	--	2.87	530	1.8	15	15	30	32	6.8	6.0
APR 13...	2340	3.18	602	1.1	7.4	7.6	15	16	5.5	5.4
MAY 26...	1870	2.54	621	1.2	6.5	2.3	8.8	10	4.8	4.5
JUN 15...	3010	--	--	3.4	.01	1.5	1.5	4.9	5.8	5.3
JUL 06...	1480	2.01	277	3.6	13	.00	13	17	9.0	9.0
AUG 23...	3780	5.14	725	4.5	4.0	1.4	5.4	9.9	5.1	4.7

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WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

06803500 SALT CREEK AT LINCOLN, NE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6520	3990	3440	4720	4040	4300	2920	3330	3210	3660	4180	3000
2	5920	4400	3580	6750	4100	4470	3380	3760	3410	3080	3270	2930
3	5380	3790	4280	4960	4780	4850	3740	3780	3540	3900	3460	3070
4	6400	4140	4240	5330	4840	5460	4130	4180	3700	3760	2820	3280
5	6640	4170	4210	4920	4490	4370	3780	4160	3210	3470	2820	3660
6	5290	4230	4020	5160	4550	4340	4220	4460	4000	2590	2780	3060
7	5800	3840	4160	5050	4470	2820	2600	4250	2910	2950	3020	3180
8	5360	4620	4160	5400	4690	4150	2720	4780	3440	2390	4060	3420
9	5970	3410	4430	5350	4450	3620	3310	5540	3180	2560	3260	3840
10	5300	4090	4440	5640	4650	3800	3900	4410	3500	3040	2920	3810
11	5810	4250	4540	5600	4360	3610	4000	4340	2620	2790	4390	3500
12	5910	4720	4340	5040	4040	3740	3920	1610	3380	2390	5190	3320
13	3860	4630	4290	5040	4170	4090	4060	3440	4530	3740	5280	2510
14	5650	4700	3290	4780	4410	4130	3570	3360	2850	2900	6590	3380
15	5740	4370	3880	5000	3930	3500	3760	4630	3670	2970	7130	2060
16	5020	4720	4160	4250	2130	4160	1900	2190	3160	3150	4550	4510
17	4580	4280	4220	4600	3980	4320	1740	3640	2660	1880	4030	4080
18	4490	4180	4660	4730	3970	3940	2560	3790	2770	2440	4170	3430
19	5880	1340	4790	4760	4000	3800	2990	4530	3010	2540	4400	1880
20	3890	3510	4800	4610	4700	4110	3550	4510	3610	2940	4760	4400
21	4220	3610	4930	4740	3780	4340	3280	3880	3120	3240	5290	3570
22	4780	4120	4480	4640	2580	4270	3340	2820	4850	2720	5790	3400
23	4350	4040	4250	4380	3070	4520	3170	2050	5350	3580	2850	4030
24	4310	4320	4750	4220	4110	4650	1260	1990	3910	4090	3090	4080
25	4040	3690	5510	4260	4160	4790	1020	2900	4080	4480	4750	1960
26	5580	4420	4880	4270	4070	4980	2000	3310	3640	3270	3670	3380
27	4490	4600	5000	4040	4270	4480	1440	3370	4320	3740	3360	3300
28	4920	4190	4680	4460	4240	5200	1470	3190	3430	2880	3690	3500
29	4460	3160	4340	4460	4560	1230	2470	3430	4400	3470	4290	3330
30	4550	3580	4590	3970	---	2370	3420	3990	3020	2960	2750	3420
31	4300	---	3930	3820	---	1980	---	3940	---	3320	3550	---
MONTH	5140	4040	4360	4800	4120	4010	2990	3660	3550	3130	4070	3340

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	19.0	9.0	7.5	9.0	9.0	16.5	19.0	24.5	22.0	23.5	24.5
2	20.0	17.5	11.0	5.5	7.5	7.5	17.5	14.5	24.5	21.0	24.5	24.5
3	21.0	19.0	12.0	3.5	10.0	9.0	15.5	19.0	24.5	22.0	24.5	26.5
4	20.0	19.0	13.5	4.5	4.5	5.5	15.5	20.0	24.5	24.5	25.5	25.5
5	19.0	19.0	10.0	6.5	4.5	6.5	17.5	20.0	23.5	21.0	23.5	25.5
6	21.0	19.0	10.0	4.5	4.5	7.5	17.5	17.5	24.5	24.5	24.5	25.5
7	21.0	19.0	11.0	4.5	7.5	10.0	14.5	20.0	23.5	23.5	24.5	24.5
8	21.0	16.5	10.0	5.5	9.0	10.0	15.5	21.0	24.5	25.5	24.5	20.0
9	20.0	13.5	12.0	6.5	10.0	13.5	17.5	19.0	24.5	26.5	25.5	22.0
10	21.0	15.5	12.0	6.5	10.0	12.0	19.0	22.0	25.5	26.5	26.5	22.0
11	22.0	13.5	10.0	6.5	11.0	11.0	15.5	23.5	25.0	26.5	26.5	24.5
12	22.0	10.0	10.0	7.5	13.5	6.5	17.5	19.0	28.5	26.5	26.5	24.5
13	21.0	11.0	13.5	6.5	11.0	10.0	19.0	17.5	24.5	26.0	26.5	24.5
14	21.0	13.5	6.5	7.5	11.0	10.0	21.0	21.0	22.5	27.0	23.5	24.5
15	19.0	14.5	6.5	7.5	13.5	9.0	21.0	17.5	20.5	24.0	22.0	21.0
16	19.0	15.5	6.5	6.5	10.0	11.0	19.0	15.5	22.5	25.5	26.5	22.0
17	19.0	15.5	4.5	6.5	11.0	14.5	19.0	20.0	19.0	26.0	27.5	22.0
18	19.0	17.5	7.5	7.5	13.5	16.5	19.0	21.0	19.5	26.5	27.5	25.5
19	20.0	10.0	10.0	4.5	13.5	17.5	19.0	23.5	23.5	26.0	26.5	22.0
20	20.0	6.5	7.5	7.5	11.0	13.5	14.5	24.5	22.5	26.5	25.5	21.0
21	20.0	7.5	7.5	9.0	6.5	14.5	19.0	24.5	18.5	26.0	26.5	22.0
22	21.0	10.0	7.5	10.0	10.0	15.5	20.0	22.0	24.0	27.0	26.5	23.5
23	17.5	10.0	7.5	10.0	12.0	15.5	21.0	17.5	18.5	29.5	25.5	20.0
24	14.5	7.5	7.5	10.0	13.5	16.5	13.5	20.0	21.0	26.5	25.5	22.0
25	15.5	9.0	6.5	7.5	13.5	17.5	15.5	21.0	18.5	27.5	26.5	19.0
26	15.0	7.5	7.5	4.5	13.5	12.0	13.5	22.0	24.0	26.5	26.5	21.0
27	16.5	7.5	7.5	5.5	13.5	15.5	13.5	23.5	26.5	25.5	23.5	19.0
28	15.5	10.0	7.5	10.0	14.5	12.0	12.0	23.5	24.0	25.5	24.5	19.0
29	15.5	7.5	9.0	11.0	10.0	10.0	15.5	24.5	22.0	25.5	23.5	21.0
30	16.5	4.5	10.0	10.0	---	12.0	16.5	21.0	24.5	25.5	23.5	23.5
31	19.0	---	9.0	10.0	---	13.5	---	23.5	---	25.5	24.5	---
MONTH	19.0	13.0	9.0	7.0	10.5	12.0	17.0	20.5	23.0	25.5	25.0	22.5

PLATTE RIVER BASIN

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06803510 LITTLE SALT CREEK NEAR LINCOLN, NE

LOCATION.--Lat 40°53'36", long 96°40'52", in NW1/4SW1/4 sec.30, T.11 N., R.7 E., Lancaster County, Hydrologic Unit 10200203, on left bank 10 ft (3 m) downstream from county road bridge and 0.4 mi (0.6 km) north of intersection of Interstate Highway 80 and North 27th Street north of Lincoln.

DRAINAGE AREA.--43.6 mi² (112.9 km²).

PERIOD OF RECORD.--January 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,117.73 ft (340.684 m) above mean sea level (Lancaster County Engineer bench mark).

REMARKS.--Records fair except those for winter period, which are poor. Periodic water quality measurements are published in tables for water quality at partial-record sites.

AVERAGE DISCHARGE.--7 years, 9.56 ft³/s (0.271 m³/s), 6,930 acre-ft/yr (8.54 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,080 ft³/s (58.9 m³/s) Apr. 28, 1974, gage height, 9.18 ft (2.798 m); maximum gage height, 13.38 ft (4.078 m) Oct. 11, 1973, backwater from Salt Creek; minimum daily discharge, 0.20 ft³/s (0.006 m³/s) Sept. 29, 30, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 319 ft³/s (9.03 m³/s) July 21, gage height, 5.16 ft (1.573 m), no peak above base of 500 ft³/s (14.2 m³/s); minimum daily, 0.48 ft³/s (0.014 m³/s) Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	3.2	3.4	3.4	3.8	4.2	5.3	5.3	3.3	1.9	2.2	1.6
2	1.2	3.3	3.6	3.4	3.6	4.2	4.2	4.2	3.3	2.1	1.9	1.5
3	1.5	3.0	3.6	3.2	4.5	4.2	3.8	3.8	3.2	2.1	2.0	1.4
4	1.7	3.0	4.0	2.2	4.0	4.1	3.8	3.8	3.2	2.2	2.0	1.5
5	1.9	3.0	4.2	3.1	3.5	3.9	3.6	4.5	3.2	1.9	2.2	1.5
6	1.9	2.7	4.0	2.9	3.2	4.0	3.6	3.8	3.0	1.6	2.0	1.5
7	2.0	2.8	3.6	2.7	3.9	5.0	7.4	3.6	2.8	1.9	1.9	1.6
8	2.0	2.6	3.6	3.0	3.3	5.4	5.6	3.4	2.4	1.9	1.9	2.2
9	2.0	3.2	3.6	3.4	3.4	6.0	4.5	3.6	2.2	1.7	1.7	2.1
10	2.0	2.8	3.6	3.8	3.8	7.0	4.0	3.4	2.7	1.3	1.9	2.0
11	2.1	2.6	3.6	4.0	3.4	6.6	3.8	3.3	2.2	1.3	1.7	1.9
12	2.4	2.4	3.4	3.7	4.0	6.5	3.6	7.7	3.3	1.5	1.5	1.9
13	2.7	2.4	4.0	3.6	4.0	5.8	3.8	5.9	3.2	1.5	1.6	2.4
14	3.2	2.4	3.7	3.6	4.2	5.0	3.8	4.5	2.2	1.6	2.7	2.4
15	3.0	2.6	3.5	3.8	4.8	4.2	4.8	4.2	2.4	1.7	2.4	3.3
16	3.2	2.7	3.6	3.6	7.0	4.5	5.3	4.5	2.1	2.0	1.9	3.0
17	3.3	2.8	3.2	3.6	9.0	4.2	4.8	4.2	2.1	3.2	1.9	4.0
18	3.4	3.0	2.4	3.6	6.2	4.0	4.2	3.8	2.0	2.7	1.9	4.2
19	3.4	4.8	3.1	3.5	4.8	3.8	3.6	3.6	1.9	2.1	.58	6.5
20	3.4	7.4	2.9	3.4	4.5	3.6	3.8	3.6	2.0	2.4	.48	8.0
21	3.4	4.2	2.7	4.0	4.3	3.4	4.0	3.8	2.0	58	.58	5.3
22	3.0	3.3	3.4	4.2	4.1	3.4	4.0	5.0	2.0	22	.58	4.5
23	2.4	2.8	3.2	4.8	6.8	3.2	4.0	8.3	2.2	2.6	.86	4.5
24	1.9	2.7	3.4	4.8	9.4	3.3	12	5.3	3.6	2.0	1.2	4.5
25	1.5	2.7	3.3	4.2	7.4	3.4	9.8	4.2	2.1	1.7	1.6	14
26	1.4	3.0	3.4	3.6	6.5	3.8	5.9	4.0	2.2	1.6	1.7	9.0
27	2.2	2.8	3.5	3.2	5.3	3.6	24	3.6	2.1	1.7	2.1	3.8
28	3.3	2.5	3.6	4.0	5.0	3.6	14	3.4	2.0	1.7	2.4	3.4
29	3.2	3.5	3.6	4.5	5.0	6.5	7.7	6.5	2.0	4.0	2.7	1.5
30	2.8	3.3	3.4	4.8	---	44	5.9	3.8	1.7	3.8	1.9	1.6
31	3.2	---	3.3	4.2	---	11	---	3.6	---	2.6	1.9	---
TOTAL	75.7	93.5	107.4	113.8	142.7	185.4	178.6	136.2	74.6	140.3	53.88	106.6
MEAN	2.44	3.12	3.46	3.67	4.92	5.98	5.95	4.39	2.49	4.53	1.74	3.55
MAX	3.4	7.4	4.2	4.8	9.4	44	24	8.3	3.6	58	2.7	14
MIN	1.1	2.4	2.4	2.2	3.2	3.2	3.6	3.3	1.7	1.3	.48	1.4
AC-FT	150	185	213	226	283	368	354	270	148	278	107	211
CAL YR 1975	TOTAL	2512.38	MEAN	6.88	MAX	68	MIN	.74	AC-FT	4980		
WTR YR 1976	TOTAL	1408.68	MEAN	3.85	MAX	58	MIN	.48	AC-FT	2790		

PLATTE RIVER BASIN

06803520 STEVENS CREEK NEAR LINCOLN, NE

LOCATION.--Lat 40°51'25", long 96°35'42", in NW1/4NE1/4 sec.11, T.10 N., R.7 E., Lancaster County, Hydrologic Unit 10200203, on left bank 20 ft (6 m) upstream from county road bridge on Havelock Avenue and 1.6 mi (2.6 km) east of 70th Street at east edge of Lincoln.

DRAINAGE AREA.--47.8 mi² (123.8 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,125.57 ft (343.074 m) above mean sea level (Lancaster County Engineer bench mark).

REMARKS.--Records good except those for winter period and period of backwater from beaver dams, which are poor.

AVERAGE DISCHARGE.--8 years, 12.4 ft³/s (0.351 m³/s), 8,980 acre-ft/yr (11.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,850 ft³/s (80.7 m³/s) Oct. 10, 1974, gage height, 17.03 ft (5.191 m); minimum daily, 0.01 ft³/s (0.0002 m³/s) Sept. 12, 13, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 76 ft³/s (2.15 m³/s) Apr. 27, gage height, 4.20 ft (1.280 m), no peak above base of 500 ft³/s (14.2 m³/s); minimum daily, 0.01 ft³/s (0.0002 m³/s) Sept. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.31	.65	1.5	1.5	1.5	2.3	5.8	4.9	1.8	.31	.07	.03
2	.54	.63	16	1.6	1.3	2.4	3.4	4.0	1.8	.31	.06	.03
3	.86	.70	1.7	1.0	1.3	1.9	2.6	3.4	1.5	.62	.05	.03
4	.37	.70	1.8	.85	1.3	2.3	2.5	3.0	1.4	.55	.05	.03
5	.36	.77	1.9	.97	.97	2.2	2.1	2.8	1.2	.62	.05	.02
6	.43	.76	1.8	1.1	.86	2.0	1.9	2.6	1.3	.49	.06	.02
7	.74	.78	1.8	.96	.91	2.3	3.9	2.2	1.3	.39	.05	.03
8	.28	1.3	1.5	.85	1.1	3.0	8.0	1.9	1.0	.55	.08	.03
9	.29	1.1	1.6	.97	1.2	3.4	4.2	1.9	.88	.40	.17	.04
10	.29	.81	1.6	1.3	1.3	5.6	2.5	1.9	1.0	.26	.15	.05
11	.31	.83	1.5	1.3	1.4	5.3	2.0	1.9	1.0	.10	.10	.03
12	.33	.71	1.4	1.2	1.7	4.5	1.8	3.6	.93	.07	.11	.01
13	.35	.76	1.4	1.3	1.8	3.8	1.8	5.3	.89	.06	.10	.01
14	.36	.90	1.6	1.1	1.8	3.0	1.8	3.5	.77	.06	.22	.03
15	.38	.92	1.4	1.1	2.4	3.1	2.3	2.7	.84	.10	.12	.03
16	.39	1.1	1.2	1.1	3.0	3.2	4.2	3.5	.74	.10	.10	.02
17	.39	1.3	1.0	.96	3.5	3.1	5.3	4.5	.69	.11	.12	.03
18	.39	.98	.90	.97	2.7	3.5	3.8	3.5	.76	.11	.07	.03
19	.40	1.9	1.0	1.0	2.1	3.6	3.6	2.8	.80	.10	.03	.07
20	.40	4.2	1.1	1.0	2.0	3.0	2.5	2.0	.82	.08	.03	.11
21	.36	2.2	1.2	1.0	2.8	3.0	2.6	1.9	.65	.10	.03	.05
22	.33	1.4	1.3	1.2	2.2	2.8	2.6	1.9	.58	1.1	.03	.04
23	.32	1.3	1.3	1.3	2.4	2.8	2.4	6.4	.52	.74	.02	.03
24	.35	1.2	1.3	1.2	3.1	3.3	27	9.1	.82	.25	.02	.03
25	.56	1.1	1.4	1.1	3.8	3.6	24	4.7	.63	.18	.02	.22
26	.33	1.1	1.5	1.0	3.6	3.6	9.3	2.9	.34	.12	.03	.90
27	.41	1.1	1.5	1.2	3.4	3.3	26	2.1	.34	.12	.02	.69
28	.59	1.1	1.5	1.4	3.4	2.6	29	1.6	.24	.13	.02	.46
29	.60	2.2	1.5	1.4	2.5	5.0	9.4	2.6	.19	.07	.02	.40
30	.55	1.9	1.7	1.3	---	17	6.3	2.8	.24	.13	.02	.36
31	.55	---	1.5	1.4	---	13	---	1.9	---	.12	.02	---
TOTAL	13.12	36.40	59.40	35.63	61.34	123.5	204.6	99.8	25.97	8.45	2.04	3.86
MEAN	.42	1.21	1.92	1.15	2.12	3.98	6.82	3.22	.87	.27	.066	.13
MAX	.86	4.2	16	1.6	3.8	17	29	9.1	1.8	1.1	.22	.90
MIN	.28	.63	.90	.85	.86	1.9	1.8	1.6	.19	.06	.02	.01
AC-FT	26	72	118	71	122	245	406	198	52	17	4.0	7.7

CAL YR 1975 TOTAL 1697.15 MEAN 4.65 MAX 100 MIN .11 AC-FT 3370
WTR YR 1976 TOTAL 674.11 MEAN 1.84 MAX 29 MIN .01 AC-FT 1340

NOTE.--Stage-discharge relation affected by backwater from ice or beaver dams Oct. 5-26, Nov. 23-28, Nov. 30 to Dec. 2, Dec. 14-20, Jan. 25, 26.

PLATTE RIVER BASIN

211

06803525 SALT CREEK BELOW STEVENS CREEK, NEAR WAVERLY, NE

LOCATION.--Lat 40°54'18", long 96°35'09", in NW1/4SW1/4 sec.24, T.11 N., R.7 E., Lancaster County, Hydrologic Unit 10200203, at bridge 0.5 mi (0.8 km) north of Interstate Highway 80 and 3 mi (5 km) southwest of Waverly.

DRAINAGE AREA.--815 mi² (2,111 km²).

PERIOD OF RECORD.--Water year 1971 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	DIS-SOLVED OXYGEN (MG/L) (00300)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)
OCT 30...	1430	63	7910	7.4	15.0	10	8.1	70	43	40	160
NOV 19...	1100	121	6670	7.6	8.0	10	6.4	45	12	170	500
DEC 08...	1200	77	6590	7.8	5.5	25	9.0	67	25	67	800
JAN 20...	1040	60	6420	7.3	.5	5	12.5	77	14	23	32
FEB 09...	1130	72	6440	6.6	.5	8	6.8	56	20	10	12
MAR 01...	1330	79	6490	7.1	4.0	10	10.8	90	13	10	12
APR 14...	1200	86	6120	7.6	20.0	30	7.8	66	28	100	200
MAY 27...	0930	105	5310	7.6	17.0	50	6.4	49	19	500	620
JUN 15...	1200	66	5460	--	19.0	15	7.2	--	8.0	580	90
JUN 23...	0900	87	6890	7.6	19.0	10	5.0	86	--	--	--
JUL 07...	1100	60	7390	7.7	24.0	15	7.6	61	22	433	620
AUG 17...	1145	56	8320	7.9	25.5	8	5.7	180	7.5	290	168

DATE	TOTAL CAL-CIUM (CA) (MG/L) (00916)	TOTAL MAG-NE-SIUM (MG) (MG/L) (00927)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	ALKA-LINITY AS CAC03 (MG/L) (00410)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)
OCT 30...	130	29	1500	20	404	0	331	400	2300	4700
NOV 19...	100	27	1400	18	388	0	318	340	1900	3950
DEC 08...	42	28	1400	14	384	0	315	310	1800	3770
JAN 20...	110	29	1300	18	412	0	338	390	1800	3790
FEB 09...	110	30	1300	16	376	0	308	330	1800	3880
MAR 01...	93	28	1200	16	380	0	312	320	1800	3750
APR 14...	86	27	1200	17	368	0	302	280	1800	3580
MAY 27...	90	26	1000	19	340	0	279	260	1400	3100
JUN 15...	--	--	--	--	--	--	--	--	--	--
JUN 23...	120	41	1700	22	364	0	299	430	2400	5220
JUL 07...	95	19	110	7.2	352	0	289	380	2200	4310
AUG 17...	97	34	1700	23	333	0	273	430	2500	4970

06803525 SALT CREEK BELOW STEVENS CREEK, NEAR WAVERLY, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL RESI- DUE (MG/L) (00500)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT 30...	6.39	799	4720	.93	5.7	7.3	13	14	3.7	3.4
NOV 19...	5.37	1290	4160	.99	7.8	--	--	--	4.7	4.7
DEC 08...	5.13	784	3980	1.6	8.2	5.8	14	16	3.3	2.9
JAN 20...	5.15	621	3890	1.4	7.3	4.7	12	13	4.1	3.9
FEB 09...	5.28	754	3900	1.1	4.8	5.2	10	11	3.1	.15
MAR 01...	5.10	800	9640	1.4	5.8	8.2	14	15	2.9	2.8
APR 14...	4.87	839	3670	1.1	4.8	7.2	12	13	3.5	3.3
MAY 27...	4.22	879	3640	2.0	2.8	2.7	5.5	7.5	2.6	2.4
JUN 15...	--	--	--	--	--	--	--	--	--	--
JUL 23...	7.10	1230	5360	6.3	.01	1.1	1.1	7.4	5.3	5.0
AUG 07...	5.86	706	4560	3.2	3.4	2.3	5.7	8.9	4.6	4.4
AUG 17...	6.76	751	5030	2.1	4.1	.00	4.1	6.2	4.8	4.4

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)
NOV 19...	1100	12	360	42	96	29	1400	32	18
FEB 09...	1130	25	360	52	97	29	1300	30	16
MAY 27...	0930	7	330	51	83	30	980	23	17
AUG 17...	1145	25	390	110	97	35	1700	38	22

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SiO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)
NOV 19...	.8	24	4000	710	60	220	1	0
FEB 09...	.7	21	3780	660	10	300	--	--
MAY 27...	.6	22	2960	420	40	60	0	0
AUG 17...	1.0	24	4970	800	20	140	--	--

PLATTE RIVER BASIN

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06803525 SALT CREEK BELOW STEVENS CREEK, NEAR WAVERLY, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL PCB (UG/L) (39516)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	TOTAL CHLOR- DANE (UG/L) (39350)	TOTAL DDD (UG/L) (39360)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)
NOV 19...	1100	.0	--	.00	.0	.00	.00	.00
FEB 09...	1130	.0	.00	.00	.0	.00	.00	.00
MAY 27...	0930	.0	.00	.00	.0	.00	.00	.01
AUG 17...	1145	.0	.00	.00	.0	.00	.00	.00

DATE	TOTAL DI- AZINON (UG/L) (39570)	TOTAL DI- ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL ETHION (UG/L) (39398)	TOTAL HEPTA- CHLOR (UG/L) (39410)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L) (39420)	DIS- SOLVED LINDANE (UG/L) (39341)	TOTAL LINDANE (UG/L) (39340)	TOTAL MALA- THION (UG/L) (39530)
NOV 19...	.11	.00	.00	.00	.00	.00	--	.02	.01
FEB 09...	.11	.00	.00	.00	.00	.00	--	.01	.01
MAY 27...	.07	.00	.00	.00	.00	.00	.00	.01	--
AUG 17...	.12	.00	.00	.00	.00	.00	--	.03	.00

DATE	TOTAL METHYL PARA- THION (UG/L) (39600)	TOTAL METHYL TRI- THION (UG/L) (39790)	TOTAL PARA- THION (UG/L) (39540)	TOTAL TOX- APHENE (UG/L) (39400)	TOTAL TRI- THION (UG/L) (39786)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
NOV 19...	.00	.00	.00	0	.00	.02	.00	.00
FEB 09...	.00	.00	.00	0	.00	.02	.02	.00
MAY 27...	.00	.00	.00	0	.00	.47	.02	.01
AUG 17...	.00	.00	.00	0	.00	.16	.00	.01

PLATTE RIVER BASIN

06803530 ROCK CREEK NEAR CERESCO, NE

LOCATION.--Lat 41°00'56", long 96°32'39", in NE1/4NE1/4 sec.17, T.12 N., R.8 E., Lancaster County, Hydrologic Unit 10200203, on right bank 10 ft (3 m) downstream from bridge on east-west county road and 5.7 mi (9.2 km) southeast of Ceresco.

DRAINAGE AREA.--119 mi² (308 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1115.18 ft (339.907 m) above mean sea level.

REMARKS.--Records fair except those for winter period, which are poor.

AVERAGE DISCHARGE.--6 years, 23.6 ft³/s (0.668 m³/s), 17,100 acre-ft/yr (21.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,120 ft³/s (117 m³/s) May 1, 1972, gage height, 14.2 ft (4.33 m), from floodmark; minimum daily, 0.25 ft³/s (0.007 m³/s) July 13, 1976.

EXTREMES FOR CURRENT YFAR.--Maximum discharge, 132 ft³/s (3.74 m³/s) Feb. 16, gage height, 2.54 ft (0.774 m), no peak above base of 600 ft³/s (17.0 m³/s); minimum daily, 0.25 ft³/s (0.007 m³/s) July 13.

REVISIONS.--Revised figures of discharge for the water year 1975, superseding those published in the report for 1975 are given herein.

EXTREMES FOR THE 1975 WATER YEAR.-- Maximum discharge, 700 ft³/s (19.8 m³/s) June 23 at 1430, gage height, 5.60 ft (1.707 m), no other peak above base of 600 ft³/s (17.0 m³/s); minimum daily, 2.4 ft³/s (0.068 m³/s) Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	11	7.0	8.2	12	19	30	30	17	10	4.0	5.9
2	5.1	7.6	7.6	8.2	12	17	26	28	51	10	60	5.3
3	5.5	14	8.0	7.0	12	15	31	35	131	9.4	6.8	4.9
4	4.8	15	9.0	6.8	13	16	36	32	17	10	4.4	5.1
5	5.5	9.8	10	7.0	10	18	39	31	15	8.7	3.6	6.5
6	16	8.8	11	8.0	9.6	19	28	28	11	9.4	3.6	7.2
7	6.8	8.2	9.0	9.8	9.2	11	32	25	10	10	3.5	6.8
8	5.0	8.5	8.0	10	8.6	13	45	22	9.6	12	3.0	5.7
9	5.0	9.2	8.6	11	8.0	18	31	21	17	8.1	3.1	5.4
10	5.0	12	9.6	9.0	9.4	17	23	19	14	7.5	3.1	5.4
11	4.6	9.6	11	6.6	11	16	20	17	13	14	3.6	5.4
12	4.8	8.4	11	5.0	11	16	18	16	13	8.1	2.4	5.5
13	5.6	8.5	9.9	4.5	12	16	18	15	10	8.1	3.0	5.9
14	5.7	8.6	10	7.0	12	17	43	14	10	8.4	4.8	5.6
15	5.6	8.6	9.4	9.4	12	18	31	14	19	7.0	3.8	5.3
16	5.8	8.8	8.8	9.0	13	15	23	13	12	6.8	4.2	5.3
17	6.1	8.9	8.8	13	13	33	22	12	10	6.4	5.0	6.0
18	5.6	9.8	9.4	14	13	98	20	12	93	5.6	5.4	6.1
19	6.1	11	9.8	12	12	230	26	12	62	5.8	5.4	5.4
20	6.1	9.4	10	13	13	194	20	12	14	11	5.1	4.4
21	6.2	8.6	10	13	14	131	17	12	20	7.8	4.8	4.7
22	6.2	8.8	11	12	16	107	17	11	42	8.1	4.1	4.7
23	6.3	8.9	10	13	14	58	81	13	137	8.4	3.6	4.8
24	6.3	8.5	9.0	14	14	31	35	12	33	6.7	3.3	3.9
25	6.4	8.4	8.0	14	15	28	25	11	17	6.1	3.2	4.6
26	6.1	8.2	8.4	13	17	30	21	11	13	5.4	3.2	4.8
27	6.7	8.0	9.0	13	25	227	53	10	13	6.4	3.5	4.9
28	8.2	7.8	9.6	12	21	125	126	26	12	5.1	4.0	4.9
29	11	7.6	9.0	12	---	48	33	16	11	3.8	5.1	5.1
30	16	7.4	8.2	12	---	36	31	14	11	3.3	6.0	5.2
31	37	---	8.6	12	---	34	---	15	---	3.6	6.1	---
TOTAL	235.9	277.9	286.7	318.5	361.8	1685	1001	559	857.6	241.0	184.7	160.7
MEAN	7.61	9.26	9.25	10.3	12.9	54.4	33.4	18.0	28.6	7.77	5.96	5.36
MAX	37	15	11	14	25	230	126	35	137	14	60	7.2
MIN	4.6	7.4	7.0	4.5	8.0	15	17	10	9.6	3.3	2.4	3.9
AC-FT	468	551	569	632	718	3340	1990	1110	1700	478	366	319
CAL YR 1974	TOTAL	7416.3	MEAN	20.3	MAX	830	MIN	3.1	AC-FT	14710		
WTR YR 1975	TOTAL	6169.8	MEAN	16.9	MAX	230	MIN	2.4	AC-FT	12240		

PLATTE RIVER BASIN

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06803530 ROCK CREEK NEAR CERESCO, NE--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	6.0	11	7.0	14	11	13	13	8.8	2.8	2.5	2.1
2	3.1	7.2	12	6.6	13	11	11	11	8.3	3.3	2.4	2.3
3	3.4	6.7	12	6.0	14	10	10	10	8.2	3.8	1.8	2.6
4	3.7	6.3	11	6.0	11	9.4	9.3	9.3	7.6	4.0	1.7	2.9
5	4.2	5.6	14	7.8	9.2	9.0	9.1	8.3	7.5	3.8	1.9	3.1
6	3.5	5.8	16	7.0	8.6	11	9.1	7.9	7.6	3.0	1.7	3.0
7	4.1	6.8	10	5.8	9.4	18	12	7.8	6.7	3.0	1.7	3.1
8	4.7	6.3	8.4	6.4	11	17	13	7.8	6.2	2.8	1.9	3.4
9	4.2	6.5	7.9	7.8	12	24	10	7.8	6.1	2.6	2.1	3.7
10	3.4	9.4	7.9	9.0	13	21	9.4	8.0	6.7	2.6	2.4	4.3
11	4.5	8.1	7.8	8.2	15	16	9.0	8.4	6.6	1.1	1.2	2.8
12	5.2	7.3	7.2	9.2	17	15	8.7	15	5.7	.70	1.1	3.1
13	5.4	7.1	7.6	8.6	16	12	9.0	15	5.1	.25	.80	4.1
14	5.0	7.6	23	8.0	15	13	9.8	10	5.2	.30	7.7	3.8
15	6.0	8.2	15	9.6	18	13	11	9.8	5.0	1.3	6.2	8.5
16	4.1	8.6	12	9.0	55	13	13	9.8	4.5	1.9	3.0	17
17	4.6	9.0	11	8.0	34	16	12	9.8	4.6	1.9	2.8	3.9
18	5.1	9.8	10	7.6	16	14	12	9.6	4.4	1.5	2.8	4.0
19	5.1	11	13	7.2	13	13	11	9.8	4.3	1.1	2.2	7.0
20	5.3	30	13	6.6	12	11	11	9.3	5.1	2.4	1.5	11
21	5.6	12	12	8.0	10	9.1	11	9.6	4.0	3.2	1.5	2.4
22	5.7	12	12	14	12	8.4	11	11	3.6	20	1.3	2.2
23	4.4	10	9.8	13	15	8.2	14	24	3.4	7.9	1.4	2.6
24	4.1	9.0	13	11	21	8.2	29	13	5.4	5.5	1.3	2.7
25	4.4	7.6	11	10	17	9.3	34	9.9	3.8	2.8	1.1	12
26	5.0	8.0	10	9.0	15	9.1	16	9.1	3.6	2.4	1.4	9.6
27	5.1	7.6	10	8.0	14	8.6	47	8.0	3.4	1.6	1.3	3.7
28	4.7	7.2	9.7	11	13	8.5	38	7.7	3.2	1.8	1.5	2.9
29	4.1	15	9.0	16	12	14	19	9.4	3.2	1.8	1.1	2.4
30	4.7	14	8.4	15	---	77	15	8.6	2.4	2.3	1.4	3.0
31	5.1	---	7.8	14	---	23	---	7.6	---	1.7	1.8	---
TOTAL	142.5	275.7	342.5	280.4	455.2	460.8	446.4	315.3	160.2	95.15	64.50	139.2
MEAN	4.60	9.19	11.0	9.05	15.7	14.9	14.9	10.2	5.34	3.07	2.08	4.64
MAX	6.0	30	23	16	55	77	47	24	8.8	20	7.7	17
MIN	3.1	5.6	7.2	5.8	8.6	8.2	8.7	7.6	2.4	.25	.80	2.1
AC-FT	283	547	679	556	903	914	885	625	318	189	128	276
CAL YR 1975	TOTAL	6130.00	MEAN	16.8	MAX	230	MIN	2.4	AC-FT	12160		
WTR YR 1976	TOTAL	3177.85	MEAN	8.68	MAX	77	MIN	.25	AC-FT	6300		

PLATTE RIVER BASIN

06803530 ROCK CREEK NEAR CERESCO, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1970 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1970 to current year.

WATER TEMPERATURES: April 1970 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 5,160 micromhos July 5, 1970; minimum daily, 144 micromhos Oct. 11, 1973.

WATER TEMPERATURES: Maximum, 39.5°C July 17, 1970; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 3,200 micromhos Aug. 25; minimum daily, 650 micromhos Sep. 20.

WATER TEMPERATURES: Maximum, 32.0°C July 12, 13, 23, 26; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	HARDNESS (CA, MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
DEC 08...	1100	8.6	1300	8.2	1.5	20	35	270	9	78	18
MAR 02...	1315	11	1740	8.1	3.0	9	--	310	26	90	21
MAY 25...	1400	10	1700	7.9	22.0	12	60	270	0	74	21
JUL 22...	1300	22	719	7.2	28.5	140	--	150	0	39	12
SEP 28...	1330	3.0	1280	7.6	13.0	35	140	210	20	59	15

DATE	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CaCO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	DISSOLVED FLUORIDE (F) (MG/L) (00950)	DISSOLVED SILICA (SiO2) (MG/L) (00955)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)
DEC 08...	150	4.0	7.4	317	0	260	110	170	.4	28	745
MAR 02...	230	5.7	7.8	348	0	285	140	280	.4	22	1010
MAY 25...	250	6.6	11	339	0	278	150	280	.4	16	1010
JUL 22...	110	4.0	11	184	0	151	65	100	.4	17	--
SEP 28...	190	5.7	13	230	0	189	130	210	.4	24	760

PLATTE RIVER BASIN

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06803530 ROCK CREEK NEAR CERESCO, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)
DEC 08...	718	1.01	17.5	1.2	.15	2.0	2.1	3.3	.26	.23	190
MAR 02...	963	1.37	30.0	.86	.13	.83	.96	1.8	.32	.26	230
MAY 25...	970	1.37	27.3	.47	.21	1.3	1.5	2.0	.45	.28	300
JUL 22...	445	.98	43.7	1.8	.48	2.7	3.2	5.0	.91	.28	230
SEP 28...	755	1.03	6.32	1.1	.33	1.6	1.9	3.0	.66	.40	290

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1370	1360	1260	1240	1300	1540	1660	1740	1350	1600	1300	1700
2	1680	1220	1190	1400	1380	1640	1630	1740	1340	1740	1320	1640
3	1470	1350	1260	1520	1280	2080	1600	1600	1360	1520	1250	1600
4	1340	1240	1240	1360	1560	1890	1550	1570	1370	1450	1430	1570
5	1330	1180	1280	1320	1230	1840	1520	1510	1370	1390	1370	1550
6	1320	1260	1460	1310	1280	1660	1540	1480	1350	1380	1330	1500
7	1330	1250	1230	1300	1250	1500	1800	1450	1280	1340	1390	1420
8	1230	1240	1300	1410	1270	1680	1750	1400	1380	1410	1500	1370
9	1280	1350	1340	1400	1270	2000	1480	1400	1400	1360	1630	1480
10	1260	1520	1300	1360	1180	1880	1480	1400	1390	1340	1590	1370
11	1230	1290	1340	1340	1190	1720	1500	1400	1390	1650	1830	1290
12	1310	1200	1360	1320	1160	1710	1510	1940	1360	1730	1990	1290
13	1320	1160	1380	1500	1140	1710	1500	1740	1340	1860	1970	1770
14	1340	1160	957	1440	1240	1700	1540	1710	1370	1660	1660	1720
15	1300	961	1220	1390	1300	1680	1700	1760	1290	1800	1350	1950
16	1230	671	1350	1500	1130	1900	2290	1800	1330	1680	1380	657
17	1260	1030	1810	1350	1070	1830	1950	1840	1370	1740	1410	890
18	1220	981	1420	1440	1420	1790	1990	1660	1320	2010	1390	965
19	1230	1170	1290	1260	1500	1780	1820	1550	1380	2340	1510	880
20	1250	1050	1290	1200	1580	1780	1900	1490	1350	1860	1640	650
21	1240	1160	1220	1200	1740	1580	2000	1430	1400	1460	1890	1060
22	1270	1220	1220	1150	1300	1550	1750	1500	1450	1070	2010	1330
23	1280	1210	1230	1210	1690	1560	2120	1750	1530	1060	2220	1230
24	1300	1210	1230	1230	1700	1510	1890	1700	1950	1180	2360	1230
25	1240	1200	1220	1200	1720	1500	1780	1740	1600	1230	3200	804
26	1240	1210	1200	1260	1610	1400	1820	1650	1600	1270	2440	780
27	1260	1200	1190	1270	1650	1500	1240	1550	1610	1320	2460	1140
28	1260	1210	1230	1210	1610	1440	1490	1540	1620	1290	2440	1450
29	1220	1210	1290	1180	1600	1450	1780	1540	1580	1330	2600	1400
30	1240	1230	1320	1230	---	1220	1900	1450	1560	1350	2220	1360
31	1300	---	1280	1270	---	1390	---	1400	---	1330	2080	---
MONTH	1300	1190	1290	1320	1390	1660	1720	1590	1430	1510	1810	1300

PLATTE RIVER BASIN

06803530 ROCK CREEK NEAR CERESCO, NE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	11.0	0.0	1.0	1.0	3.0	15.5	20.0	19.0	20.0	24.0	28.0
2	16.0	12.0	3.0	1.0	1.0	3.0	14.0	11.0	20.5	22.0	25.0	25.0
3	17.0	12.0	2.0	0.0	2.0	3.0	12.5	17.0	20.0	21.0	22.0	23.0
4	16.0	13.0	0.5	0.0	0.0	0.0	15.0	20.0	20.0	23.0	29.0	23.0
5	17.0	14.0	1.0	1.0	0.0	0.0	18.0	20.5	20.5	19.0	26.0	23.0
6	18.0	13.0	0.5	0.0	0.0	0.0	17.0	16.0	20.5	20.0	28.5	26.0
7	16.5	12.5	1.0	0.0	0.0	1.0	13.0	19.5	20.0	26.0	27.0	27.0
8	19.0	13.0	1.0	0.0	3.0	2.0	16.5	17.0	21.5	25.0	25.5	24.0
9	17.0	12.5	4.0	0.0	3.0	5.0	17.0	20.0	25.0	25.0	29.0	22.0
10	11.0	12.0	3.0	0.0	1.0	2.0	18.0	19.5	25.5	30.0	28.0	19.0
11	23.0	11.5	3.0	1.0	3.0	3.0	17.5	23.0	25.5	20.0	30.0	20.0
12	22.0	11.0	2.0	1.0	2.5	3.5	17.0	20.0	28.0	32.0	31.0	26.0
13	22.0	10.0	1.0	1.0	2.0	2.5	20.0	19.0	24.0	32.0	26.0	22.0
14	19.0	9.0	1.0	0.5	1.0	5.0	24.0	22.0	23.0	30.0	25.0	23.0
15	16.0	12.0	0.0	0.0	4.0	5.0	23.0	20.0	23.5	28.0	22.0	19.0
16	12.0	13.5	0.0	0.0	2.0	8.0	20.0	21.0	19.5	24.0	20.0	21.0
17	15.0	10.0	0.0	1.0	6.0	12.5	17.0	22.0	22.0	22.0	25.0	20.0
18	12.0	13.5	0.0	2.0	4.0	16.0	17.0	22.0	20.5	24.0	29.0	22.0
19	20.0	8.0	0.0	2.0	3.5	13.0	20.0	25.0	19.0	28.0	26.5	23.0
20	22.0	2.0	0.0	0.0	3.0	15.0	20.0	26.0	18.5	27.0	30.5	20.0
21	15.0	0.0	1.0	0.0	2.5	11.0	20.0	27.0	20.0	25.0	22.0	20.0
22	20.0	1.0	0.5	1.0	2.0	14.0	21.0	23.0	20.5	25.0	20.0	20.0
23	20.0	1.0	1.0	3.0	3.0	14.0	22.0	16.0	20.5	32.0	31.0	18.0
24	15.0	0.0	1.0	3.0	4.5	6.0	18.0	18.0	24.5	28.0	30.0	16.0
25	11.0	0.0	0.5	0.0	10.0	7.0	15.0	20.0	22.0	30.0	31.0	15.0
26	12.0	0.0	0.0	0.0	10.0	9.0	20.0	20.0	25.0	32.0	25.5	14.5
27	10.0	1.0	1.0	0.0	10.0	14.5	10.0	21.0	25.5	29.0	29.0	15.0
28	10.0	0.0	1.0	1.0	10.0	10.0	12.0	18.0	26.0	31.5	19.0	14.0
29	9.0	1.0	0.0	0.5	5.0	8.0	14.5	19.0	28.0	28.0	26.0	16.0
30	11.0	1.0	1.0	1.5	---	9.5	17.0	20.0	29.0	26.0	27.0	18.0
31	12.0	---	1.0	2.0	---	12.0	---	19.5	---	25.5	27.0	---
MONTH	16.0	7.5	1.0	1.0	3.5	7.0	17.5	20.0	22.5	26.0	26.5	21.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	TEMPER- ATURE (DEG C) (00010)	SUS- PENDE SEDI- MENT (MG/L) (80154)	SUS- PENDE SED- IMENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)
JUL 22...	1300	22	26.5	932	55	98	99	100

PLATTE RIVER BASIN

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06803555 SALT CREEK AT GREENWOOD, NE

LOCATION.--Lat 40°57'56", long 96°27'01", at center of sec.31, T.12 N., R.9 E., Cass County, Hydrologic Unit 10200203, on right bank just downstream from county road bridge, 0.5 mi (0.8 km) west of Greenwood.

DRAINAGE AREA.--1,051 mi² (2,722 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1951 to current year. Records furnished by Corps of Engineers prior to Oct. 1, 1972.

REVISED RECORDS.--WDR NE-71: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,068.14 ft (325.569 m) above mean sea level, datum of 1954. Prior to Nov. 5, 1964, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--24 years (1952-76), 264 ft³/s (7.476 m³/s), 191,300 acre-ft/yr (0.236 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,000 ft³/s (1,160 m³/s) June 24, 1963, gage height, 23.46 ft (7.151 m); maximum gage height, 23.50 ft (7.163 m) Oct. 11, 1973, from floodmark; minimum daily discharge, 14 ft³/s (0.40 m³/s) Jan. 10, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,090 ft³/s (30.9 m³/s) Apr. 27, gage height, 5.04 ft (1.536 m), no peak above base of 2,200 ft³/s (62.3 m³/s); minimum daily, 49 ft³/s (1.39 m³/s) Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	106	120	95	127	106	258	210	119	69	92	60
2	76	106	130	90	103	110	168	177	116	83	88	57
3	80	106	120	86	108	98	133	157	113	80	88	56
4	80	87	100	66	104	92	112	139	105	67	79	59
5	80	95	107	78	100	94	102	131	105	61	79	56
6	84	93	92	86	94	110	105	123	101	61	79	56
7	84	87	93	78	110	135	203	117	93	70	74	61
8	84	93	93	84	108	135	184	109	98	70	63	61
9	82	98	97	88	110	145	177	101	99	78	62	70
10	86	112	92	92	123	177	143	98	90	79	74	65
11	86	106	89	84	111	157	127	104	92	70	69	65
12	87	101	93	100	114	140	121	267	91	68	69	63
13	82	92	95	96	112	123	121	254	86	73	71	77
14	85	100	196	94	109	125	123	160	81	88	79	84
15	87	106	140	114	125	117	180	134	84	90	83	86
16	92	95	120	112	192	139	307	180	90	96	70	93
17	92	101	100	110	229	120	320	163	83	199	74	84
18	93	109	80	114	157	123	223	125	85	182	68	74
19	94	134	118	110	139	125	177	111	77	98	62	122
20	94	469	130	98	123	124	157	100	69	95	57	144
21	94	148	110	104	120	112	177	95	63	109	57	88
22	96	113	120	100	130	107	148	130	73	344	54	81
23	96	87	114	106	145	110	180	351	74	209	51	81
24	98	72	120	104	160	107	431	336	174	174	56	79
25	98	75	125	96	160	106	738	229	100	140	56	324
26	100	80	110	88	157	111	355	177	87	93	57	227
27	101	92	104	80	150	108	523	150	80	91	58	119
28	102	130	100	98	142	97	519	136	78	90	55	102
29	101	200	91	106	130	110	334	162	81	99	52	91
30	105	140	95	110	---	615	241	147	76	106	49	81
31	105	---	92	113	---	362	---	122	---	103	56	---
TOTAL	2801	3533	3386	2980	3792	4440	7087	4995	2763	3335	2081	2766
MEAN	90.4	118	109	96.1	131	143	236	161	92.1	108	67.1	92.2
MAX	105	469	196	114	229	615	738	351	174	344	92	324
MIN	76	72	80	66	94	92	102	95	63	61	49	56
AC-FT	5560	7010	6720	5910	7520	8810	14060	9910	5480	6610	4130	5490
CAL YR 1975	TOTAL	68739	MEAN 188	MAX 1260	MIN 71	AC-FT 136300						
WTR YR 1976	TOTAL	43959	MEAN 120	MAX 738	MIN 49	AC-FT 87190						

PLATTE RIVER BASIN

06803555 SALT CREEK AT GREENWOOD, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1971 to September 1976 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: October 1971 to September 1976 (discontinued).

REMARKS.--Prior to July 1, 1971, sediment records were obtained by the U.S. Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily, 15,900 mg/L May 18, 1974; minimum daily, 5 mg/L Oct. 9, 1971.
SEDIMENT LOADS: Maximum daily, 492,000 tons (447,000 tonnes) Oct. 11, 1973; minimum daily, 1.0 ton (0.9 tonne) Oct. 9, 1971.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily, 4,320 mg/L Apr. 25; minimum daily, 73 mg/L Mar. 28.
SEDIMENT LOADS: Maximum daily, 8,370 tons (7,620 tonnes) Apr. 23; minimum daily, 14 tons (13 tonnes) Jan. 4.

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	77	265	55	106	254	73	120	280	91
2	76	280	57	106	272	78	130	280	98
3	80	315	68	106	200	57	120	280	91
4	80	345	75	87	115	27	100	280	76
5	80	320	69	95	178	46	107	280	81
6	84	265	60	93	300	75	92	270	67
7	84	268	61	87	272	64	93	270	68
8	84	294	67	93	268	67	93	270	68
9	82	291	64	98	320	85	97	270	71
10	86	288	67	112	365	110	92	270	67
11	86	298	69	106	281	80	89	270	65
12	87	322	76	101	148	40	93	313	79
13	82	275	61	92	130	32	95	350	90
14	85	190	44	100	275	74	196	500	264
15	87	183	43	106	323	92	140	350	132
16	92	215	53	95	305	78	120	200	65
17	92	235	58	101	302	82	100	100	27
18	93	258	65	109	318	94	80	90	19
19	94	232	59	134	606	321	118	180	57
20	94	175	44	469	1610	2320	130	250	88
21	94	170	43	148	300	120	110	140	42
22	96	205	53	113	310	95	120	180	58
23	96	222	58	87	294	69	114	150	46
24	98	223	59	72	268	52	120	180	58
25	98	215	57	75	268	54	125	210	71
26	100	192	52	80	298	64	110	140	42
27	101	180	49	92	302	75	104	110	31
28	102	182	50	130	278	98	100	93	25
29	101	188	51	200	300	162	91	100	25
30	105	212	60	140	290	110	95	106	27
31	105	238	67	---	---	---	92	105	26
TOTAL	2801	---	1814	3533	---	4794	3386	---	2115

06803555 SALT CREEK AT GREENWOOD, NE--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	95	118	30	127	202	69	106	295	84
2	90	100	24	103	218	61	110	335	99
3	86	90	21	108	220	64	98	376	99
4	66	80	14	104	218	61	92	355	88
5	78	85	18	100	160	43	94	330	84
6	86	90	21	94	120	30	110	332	99
7	78	85	18	110	230	68	135	350	128
8	84	90	20	108	220	64	135	340	124
9	88	95	23	110	230	68	145	310	121
10	92	100	25	123	337	112	177	270	129
11	84	90	20	111	336	101	157	235	100
12	100	160	43	114	245	75	140	230	87
13	96	130	34	112	215	65	123	260	86
14	94	120	30	109	202	59	125	270	91
15	114	250	77	125	205	69	117	240	76
16	112	240	73	192	422	295	139	270	101
17	110	230	68	229	700	433	120	290	94
18	114	250	77	157	250	106	123	380	126
19	110	230	68	139	255	96	125	465	157
20	98	150	40	123	305	101	124	445	149
21	104	190	53	120	300	97	112	395	119
22	100	160	43	130	265	93	107	342	99
23	106	210	60	145	290	114	110	350	104
24	104	190	53	160	350	151	107	410	118
25	96	130	34	160	310	134	106	450	129
26	88	95	23	157	225	95	111	400	120
27	80	90	19	150	210	85	108	275	80
28	98	150	40	142	220	84	97	280	73
29	106	204	58	130	250	88	110	550	163
30	110	203	60	---	---	---	615	3540	6370
31	113	201	61	---	---	---	362	1000	977
TOTAL	2980	---	1248	3792	---	2981	4440	---	10474
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	258	350	244	210	670	380	119	390	125
2	168	275	125	177	632	302	116	390	122
3	133	340	122	157	655	278	113	390	119
4	112	450	136	139	690	259	105	480	113
5	102	450	124	131	605	214	105	410	116
6	105	564	160	123	475	158	101	400	109
7	203	997	731	117	450	142	93	380	95
8	184	900	447	109	458	135	98	480	127
9	177	700	335	101	440	120	99	530	142
10	143	489	189	98	411	109	90	500	122
11	127	580	199	104	420	118	92	560	139
12	121	660	216	267	1740	1960	91	550	135
13	121	650	212	254	1890	1580	86	540	125
14	123	654	217	160	620	268	81	530	116
15	180	1480	777	134	550	199	84	600	136
16	307	2260	1980	180	537	261	90	650	158
17	320	1800	1560	163	479	211	83	649	145
18	223	950	572	125	350	118	85	680	156
19	177	600	287	111	300	90	77	800	166
20	157	436	185	100	440	119	69	750	140
21	177	650	311	95	380	97	63	800	136
22	148	582	233	130	400	140	73	700	138
23	180	660	321	351	2200	2500	74	571	114
24	431	1960	3070	336	1650	1500	174	1050	601
25	738	4320	8730	229	850	526	100	330	89
26	355	1600	1530	177	499	238	87	380	89
27	523	2640	5310	150	426	173	80	454	98
28	519	1790	2860	136	352	129	78	430	91
29	334	700	631	162	535	271	81	291	64
30	241	708	461	147	450	179	76	370	76
31	---	---	---	122	400	132	---	---	---
TOTAL	7087	---	32275	4995	---	12906	2763	---	4102

PLATTE RIVER BASIN

06803555 SALT CREEK AT GREENWOOD, NE--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	69	470	88	92	205	51	60	540	87
2	83	460	103	88	250	59	57	548	84
3	80	395	85	88	295	70	56	608	92
4	67	390	71	79	340	73	59	690	110
5	61	442	73	79	392	84	56	730	110
6	61	446	73	79	423	90	56	645	98
7	70	450	85	74	395	79	61	545	90
8	70	555	105	63	364	62	61	580	96
9	78	656	138	62	340	57	70	695	131
10	79	540	115	74	355	71	65	770	135
11	70	405	77	69	435	81	65	780	137
12	68	355	65	69	521	97	63	780	133
13	73	380	75	71	565	108	77	860	179
14	88	470	112	79	573	122	84	745	169
15	90	600	146	83	570	128	86	450	104
16	96	600	156	70	540	102	93	380	95
17	199	919	604	74	485	97	84	360	82
18	182	850	418	68	425	78	74	350	70
19	98	449	119	62	445	74	122	578	297
20	95	480	123	57	505	78	144	790	307
21	109	690	203	57	445	68	88	380	90
22	344	1510	1490	54	360	52	81	320	70
23	209	750	423	51	355	49	81	300	66
24	174	515	242	56	398	60	79	220	47
25	140	365	138	56	410	62	324	1100	1600
26	93	355	89	57	389	60	227	561	436
27	91	420	103	58	425	67	119	200	64
28	90	410	100	55	548	81	102	135	37
29	99	360	96	52	680	95	91	146	36
30	106	322	92	49	780	103	81	148	32
31	103	235	65	56	700	106	---	---	---
TOTAL	3335	---	5872	2081	---	2464	2766	---	5084
YEAR	43959.0		86129.0						

PLATTE RIVER BASIN

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06803565 SALT CREEK ABOVE ASHLAND, NE

LOCATION.--Lat 41°01'34", long 96°24'22", in NW1/4NW1/4 sec.10, T.12 N., R.9 E., Saunders County, Hydrologic Unit 10200203, at county road bridge 2 mi (3 km) southwest of Ashland.

DRAINAGE AREA.--1,118 mi² (2,896 km²).

PERIOD OF RECORD.--Water year 1971 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT											
30...	1245	101	6550	7.3	11.5	15	9.8	22	70	170	1800
NOV											
20...	0900	700	2590	7.3	3.5	350	5.8	28	12000	26700	660
DEC											
08...	1300	117	5720	6.7	4.0	15	10.8	16	60	556	1600
JAN											
21...	1115	145	5350	7.2	15.0	10	11.0	10	37	180	1500
FEB											
11...	1300	124	5710	6.5	1.0	15	10.6	8.5	<3	20	1600
MAR											
02...	1215	126	5690	7.6	4.0	15	11.3	11	25	20	1500
APR											
13...	1230	134	5690	7.8	17.0	45	6.2	36	73	172	--
MAY											
25...	1145	230	2360	7.4	20.0	330	6.0	21	6300	5200	520
JUN											
14...	1245	95	8030	8.1	23.0	25	9.9	7.5	800	400	--
JUL											
06...	1100	72	7520	8.1	21.0	10	9.5	20	333	220	2200
AUG											
23...	1015	63	8220	8.1	23.5	15	6.5	7.6	138	236	2500
SEP											
30...	1445	79	6600	7.2	21.0	15	8.7	--	171	228	1900

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT										
30...	3760	5.11	1030	1.8	3.4	5.8	9.2	11	3.5	3.1
NOV										
20...	1430	1.94	2700	.83	2.7	1.9	4.6	5.4	1.1	.89
DEC										
08...	3380	4.60	1070	1.9	3.9	.80	4.7	6.6	2.1	1.9
JAN										
21...	3190	4.34	1250	1.7	4.9	5.0	9.9	12	3.0	2.9
FEB										
11...	3400	4.62	1140	1.6	2.2	1.8	4.0	5.6	2.1	1.9
MAR										
02...	3310	4.50	1130	1.9	2.2	2.6	4.8	6.7	2.1	2.0
APR										
13...	3240	4.41	1170	2.2	.99	2.7	3.7	5.9	1.8	1.4
MAY										
25...	1340	1.82	832	3.6	.35	4.2	4.5	8.1	2.3	.82
JUN										
14...	4790	6.51	1240	2.2	.46	2.0	2.5	4.7	2.7	.42
JUL										
06...	4420	6.01	864	3.1	.39	1.2	1.6	4.7	3.3	3.1
AUG										
23...	4940	6.72	840	2.3	.00	1.9	1.9	4.2	3.9	3.9
SEP										
30...	3870	5.26	834	2.3	3.9	.50	4.4	6.7	3.6	3.4

PLATTE RIVER BASIN

06803565 SALT CREEK ABOVE ASHLAND, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)
DEC 08...	1300	17	360	55	98	29	1100	25	14
MAR 02...	1215	8	340	45	88	28	1100	26	12
MAY 25...	1145	35	220	34	60	16	400	12	14
SEP 30...	1445	10	330	97	87	28	1300	31	20

DATE	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED BORON (B) (UG/L) (01020)
DEC 08...	377	0	309	280	.6	24	3330	530
MAR 02...	354	0	290	280	.6	19	3200	510
MAY 25...	221	0	181	130	.4	17	1270	260
SEP 30...	287	0	235	310	.8	23	3810	610

PLATTE RIVER BASIN

225

06804000 WAHOO CREEK AT ITHACA, NE

LOCATION.--Lat 41°08'40", long 96°32'10", in NW1/4NW1/4 sec.33, T.14 N., R.8 E., Saunders County, Hydrologic Unit 10200203, on right bank 16 ft (5 m) downstream from bridge on State Highway 63 and 0.5 mi (0.8 km) south of Ithaca.

DRAINAGE AREA.--271 mi² (702 km²), of which 268 mi² (694 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WDR NE-71: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,110.48 ft (338.474 m) above mean sea level. Prior to Oct. 27, 1959, nonrecording gages at same site and datum. Oct. 28, 1959, to Feb. 22, 1961, nonrecording gage at site 1.5 mi (2.4 km) upstream at datum 8.21 ft (2.502 m) higher.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--27 years, 74.8 ft³/s (2.118 m³/s), 54,190 acre-ft/yr (66.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,400 ft³/s (2,190 m³/s) June 24, 1963, gage height, 22.93 ft (6.989 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of indirect measurement of peak flow; minimum daily, 3.3 ft³/s (0.093 m³/s) June 11, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since about 1910, 23.22 ft (7.077 m), from floodmark, Aug. 2, 1959, discharge, 45,300 ft³/s (1,280 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 393 ft³/s (11.1 m³/s) Feb. 17, gage height, 8.98 ft (2.737 m), no peak above base of 1,500 ft³/s (42.5 m³/s); minimum daily, 6.9 ft³/s (0.20 m³/s) Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	21	27	28	28	28	41	29	24	14	12	11
2	19	22	30	23	25	28	34	28	23	16	9.5	10
3	18	22	28	20	27	27	31	26	23	15	8.7	11
4	18	22	28	18	25	23	30	27	22	14	6.9	9.4
5	17	21	29	25	25	21	29	26	22	13	7.7	9.6
6	18	22	31	23	24	22	29	27	22	12	7.5	9.7
7	18	22	34	20	27	27	31	26	22	12	7.7	10
8	18	22	30	23	28	30	36	26	21	12	8.1	11
9	18	22	29	30	28	30	32	26	20	12	7.9	14
10	18	28	29	34	29	32	30	25	19	12	9.4	11
11	18	28	28	34	30	32	29	26	19	11	8.9	12
12	19	23	28	38	32	32	28	30	18	10	8.5	13
13	19	22	28	36	33	26	28	32	18	10	8.7	12
14	19	21	29	34	33	28	28	32	18	8.9	11	12
15	18	22	27	37	34	30	29	29	18	8.2	12	13
16	19	23	28	33	64	29	30	27	18	8.4	12	14
17	19	25	27	29	311	28	37	27	18	9.0	12	23
18	20	24	26	30	81	27	31	27	17	8.8	12	18
19	20	27	41	26	34	27	28	26	17	8.5	10	15
20	20	64	39	24	31	26	28	26	17	8.1	9.8	14
21	21	51	34	28	30	25	28	26	17	10	9.0	12
22	20	30	36	28	26	24	27	28	17	13	9.1	11
23	21	26	33	29	32	26	29	41	16	12	9.8	11
24	21	23	32	28	34	23	35	39	18	10	9.5	13
25	20	23	30	26	33	23	40	32	17	10	10	14
26	20	24	28	27	32	24	36	29	16	9.9	10	30
27	20	23	28	25	30	24	33	27	16	10	10	20
28	20	21	28	27	29	24	33	26	15	10	10	13
29	20	29	28	27	29	27	33	26	15	9.5	10	13
30	20	26	28	28	---	78	30	27	14	11	9.8	12
31	21	---	28	27	---	70	---	24	---	9.8	10	---
TOTAL	597	779	929	865	1224	921	943	873	557	338.1	297.5	401.7
MEAN	19.3	26.0	30.0	27.9	42.2	29.7	31.4	28.2	18.6	10.9	9.60	13.4
MAX	21	64	41	38	311	78	41	41	24	16	12	30
MIN	17	21	26	18	24	21	27	24	14	8.1	6.9	9.4
AC-FT	1180	1550	1840	1720	2430	1830	1870	1730	1100	671	590	797
CAL YR 1975	TOTAL	14847.0	MEAN	40.7	MAX	525	MIN	17	AC-FT	29450		
WTR YR 1976	TOTAL	8725.3	MEAN	23.8	MAX	311	MIN	6.9	AC-FT	17310		

PLATTE RIVER BASIN

06804495 SILVER CREEK NEAR WAHOO, NE

LOCATION.--Lat 41°12'22", long 96°32'37", in NE1/4NE1/4 sec.8, T.14 N., R.8 E., Saunders County, Hydrologic Unit 10200203, at bridge on county road 3.9 mi (6.3 km) east of intersection of First Street and U.S. Highway 77 in Wahoo.

PERIOD OF RECORD.--Water year 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DIS-SOLVED PHOSPHORUS (P) (MG/L) (00666)
OCT 30...	343	.47	2.96	.97	.05	1.1	1.1	2.1	.29	.26
NOV 20...	353	.48	5.91	1.2	.22	3.3	3.5	4.7	.41	.32
DEC 08...	--	.51	4.82	1.3	3.5	.60	4.1	5.4	.41	.27
JAN 21...	381	.52	4.22	1.4	3.5	1.3	4.8	6.2	.54	.45
FEB 10...	354	.48	4.13	1.3	3.1	1.5	4.6	5.9	.47	.43
MAR 02...	--	.45	4.15	1.4	1.9	1.3	3.2	4.6	.34	.26
APR 13...	335	.46	3.75	1.2	.93	2.6	3.5	4.7	.42	.27
MAY 25...	--	.44	3.96	2.6	.02	.56	.58	3.2	.38	.31
JUN 14...	345	.47	3.33	1.5	.38	.52	.90	2.4	.44	.44
JUL 06...	322	.44	2.35	1.3	.01	.19	.20	1.5	.36	.32
AUG 19...	303	.41	1.23	.63	.00	.23	.23	.86	.48	.44
SEP 28...	--	.40	1.44	1.2	.00	.88	.88	2.1	.25	.23

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DIS-SOLVED OXYGEN (MG/L) (00300)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)
OCT 30...	1045	3.2	549	7.1	10.5	10	12.0	5.3	133	360	21
NOV 20...	1100	6.2	582	7.6	2.5	25	13.0	5.8	933	7670	36
DEC 08...	1000	4.8	628	7.5	4.0	10	11.8	6.1	100	480	35
JAN 21...	1000	4.1	630	7.6	3.0	10	11.7	10	2233	3300	39
FEB 10...	1400	4.3	593	6.8	7.0	4	10.1	11	<33	750	34
MAR 02...	0940	4.6	605	7.4	5.5	10	12.4	3.8	32	68	17
APR 13...	1030	4.1	713	8.3	17.5	15	6.9	7.4	80	1040	21
MAY 25...	1050	4.5	565	7.3	15.0	5	8.3	5.1	210	990	19
JUN 14...	1045	3.5	528	7.3	19.0	2	3.7	.5	187	830	7.8
JUL 06...	1000	2.7	566	7.4	22.0	5	7.3	3.7	400	550	6.2
AUG 19...	1230	1.5	441	8.6	27.0	6	9.6	3.0	700	560	11
SEP 28...	0950	1.8	476	8.3	11.0	3	9.4	2.6	580	640	5.8

PLATTE RIVER BASIN

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06804495 SILVER CREEK NEAR WAH00, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
DEC 08...	1000	17	220	0	63	15	40	1.2	9.9	296
MAR 02...	0940	3	220	0	63	16	24	.7	9.5	279
MAY 25...	1050	3	210	0	60	15	28	.8	8.8	264
SEP 28...	0950	3	200	0	58	14	21	.6	9.5	253

DATE	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (MG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
DEC 08...	0	243	30	.4	32	372	--	50	--	--
MAR 02...	0	229	39	.4	27	334	5	70	1	0
MAY 25...	0	217	32	.4	33	326	--	60	--	--
SEP 28...	0	208	26	.4	35	296	6	60	3	0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE D MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
DEC 08...	--	0	--	280	--	--	--	--	--	--
MAR 02...	2	10	3	370	.0	.0	.0	4	0	0
MAY 25...	--	50	--	10	--	--	--	--	--	--
SEP 28...	3	60	6	110	.0	.0	.0	3	0	1400

PLATTE RIVER BASIN

06805500 PLATTE RIVER AT LOUISVILLE, NE
(National stream-quality accounting network station)

LOCATION.--Lat 41°00'55", long 96°09'28", in NW1/4NW1/4 sec.14, T.12 N., R.11 E., Sarpy County, Hydrologic Unit 10200202, on the left bank at the upstream side of bridge on Nebraska Highway 50, 1 mi (2 km) north of Louisville.

DRAINAGE AREA (REVISED).--85,800 mi² (222,200 km²), approximately, of which about 71,000 mi² (183,900 km²) contributes directly to surface runoff. Approximately 4,000 mi² (10,360 km²) in Great Divide Basin is not included.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1953 to current year. October 1961 to September 1973 published as Platte River at South Bend.

REVISED RECORDS.--WDR NE-67, 74: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,007.10 ft (306.964 m) above mean sea level. Dec. 5, 1961 to Sept. 30, 1973, at site 7 mi (11 km) upstream at datum 31.43 ft (9.580 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--23 years, 5,660 ft³/s (160.3 m³/s), 4,101,000 acre-ft/yr (5.06 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 124,000 ft³/s (3,510 m³/s) Mar. 30, 1960, gage height, 12.45 ft (3.795 m); minimum daily, 131 ft³/s (3.71 m³/s) Sept. 3, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1881, 124,000 ft³/s (3,510 m³/s) Mar. 30, 1960, gage height, 12.45 ft (3.795 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,700 ft³/s (558 m³/s) May 24, gage height, 6.13 ft (1.868 m); minimum daily, 131 ft³/s (3.71 m³/s) Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2250	2990	4800	3000	5200	6700	10100	6830	5080	2460	516	155
2	2210	3590	6400	2700	4600	6000	8740	6200	4820	2120	1070	146
3	2390	3630	6400	2300	4800	5000	7720	6540	4250	1990	1320	131
4	2110	3520	6200	1800	4700	4500	7390	5700	4100	1720	1340	154
5	2080	3610	4460	2100	4300	3500	6270	4880	3530	2380	1370	179
6	2170	3410	4910	1800	4100	2800	6990	4910	3400	2240	687	264
7	2010	3950	4600	1500	4300	2800	6280	4950	3380	2780	1270	201
8	1820	3650	4610	1700	4400	3020	6260	4230	3070	3300	533	261
9	1980	3870	5290	1900	4500	4180	5820	4460	2870	2460	316	380
10	2090	3850	5500	2400	4600	8540	6150	3970	2960	2480	595	408
11	1910	4240	6130	2200	4600	9880	6120	3670	2470	1580	493	515
12	1790	4520	6210	2800	5200	9590	5830	3860	2250	1480	494	698
13	1950	4610	5880	3500	6200	8230	6280	4290	2080	1110	446	1020
14	2070	3930	5000	3000	7200	7190	5610	3860	1980	947	672	1440
15	2150	3840	3500	4500	9400	6990	5740	3890	1970	705	761	1370
16	1870	4070	3600	4300	17300	7240	6090	4010	1930	731	688	1230
17	2290	3860	3200	4100	16400	7360	6530	4270	1710	437	513	1300
18	2160	3590	2600	4100	13400	7010	6250	3210	1650	641	701	1080
19	2400	4090	2900	4000	12300	7090	6610	3350	1480	392	805	1730
20	2370	5500	3300	3600	11200	6700	6170	2750	1670	443	706	1360
21	2450	5460	3200	5200	11300	6630	7350	2440	1480	660	851	1530
22	2420	4980	3300	4800	9110	7020	6830	3440	1430	1420	764	1430
23	2380	3830	3400	5600	9280	6860	6560	6870	1170	1370	873	1160
24	2600	2600	3500	5200	7560	7110	7210	16900	1610	770	703	1110
25	2650	1900	3500	4500	7450	6290	7760	14200	1600	629	500	1480
26	2630	1300	3500	4000	6750	6100	7730	11100	2710	644	308	1830
27	2680	1500	3500	3700	6600	6030	7660	9000	7010	616	333	1100
28	3210	1700	3600	4900	6650	5800	7520	7820	5290	511	243	1940
29	3080	4100	3700	5200	7100	5730	6770	6890	4410	490	179	2390
30	3010	4000	4000	5400	---	8020	7360	6960	2950	553	150	2330
31	3210	---	3400	4900	---	9120	---	5630	---	552	196	---
TOTAL	72390	109690	134090	110700	220500	199030	205700	181080	86310	40611	20396	30322
MEAN	2335	3656	4325	3571	7603	6420	6857	5841	2877	1310	658	1011
MAX	3210	5500	6400	5600	17300	9880	10100	16900	7010	3300	1370	2390
MIN	1790	1300	2600	1500	4100	2800	5610	2440	1170	392	150	131
AC-FT	143600	217600	266000	219600	437400	394800	408000	359200	171200	80550	40460	60140
CAL YR 1975	TOTAL	1737953	MEAN	4762	MAX	26100	MIN	687	AC-FT	3447000		
WTR YR 1976	TOTAL	1410819	MEAN	3855	MAX	17300	MIN	131	AC-FT	2798000		

WATER QUALITY RECORDS

SUSPENDED SEDIMENT DISCHARGE: October 1971 to current year.

SEDIMENT LOADS: Maximum daily, 435,000 tons (396,000 tonnes) May 24; minimum daily, 64 tons (58 tonnes) July 19.

[illegible]

06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUORIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF TUEENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)
OCT 29...	.3	34	308	297	.42	2360	.40	2.0	2.4	.31
NOV 12...	.3	36	330	332	.45	4810	.52	2.6	3.1	.52
DEC 10...	.4	34	352	335	.48	5080	.75	1.3	2.1	.35
JAN 28...	.3	34	335	332	.46	4480	.92	.49	1.4	.27
FEB 11...	.4	34	333	323	.45	8990	.90	1.0	1.9	.25
MAR 10...	.4	33	374	372	.51	8450	1.1	2.0	3.1	.24
APR 06...	.4	34	441	428	.60	9100	.76	1.7	2.5	.35
MAY 06...	.5	28	455	453	.62	6310	.26	.51	.77	.32
JUN 09...	.4	33	559	551	.76	3740	.09	1.2	1.3	.49
JUL 14...	.5	32	886	877	1.21	1740	.14	1.0	1.1	.72
AUG 10...	.8	28	978	1040	1.33	1240	.00	1.7	1.7	.85
SEP 14...	.4	32	543	536	.74	2610	.01	2.9	2.9	1.0
28...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CADMIUM (CD) (UG/L) (01027)	SUS-PENDED CADMIUM (CD) (UG/L) (01026)	DIS-SOLVED CADMIUM (CD) (UG/L) (01025)	TOTAL CHROMIUM (CR) (UG/L) (01034)	SUS-PENDED CHROMIUM (CR) (UG/L) (01031)	DIS-SOLVED CHROMIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS-PENDED COBALT (CO) (UG/L) (01036)
DEC 10...	1330	6	3	3	<10	<8	2	10	10	0	<50	<50
JAN 28...	1400	--	--	--	--	--	--	--	--	--	--	--
MAR 10...	1240	8	4	4	10	9	1	10	0	10	<50	<48
JUN 09...	1130	8	0	8	1	0	1	20	10	10	1	1
SEP 14...	1100	11	7	4	<10	<7	3	10	10	0	<50	<50

DATE	DIS-SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS-PENDED COPPER (CU) (UG/L) (01041)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	SUS-PENDED LEAD (PB) (UG/L) (01050)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MANGANESE (MN) (UG/L) (01055)	SUS-PENDED MANGANESE (MN) (UG/L) (01054)
DEC 10...	0	10	2	8	3800	30	<100	<95	5	190	190
JAN 28...	--	--	--	--	--	--	--	--	--	--	--
MAR 10...	2	40	36	4	10000	30	100	98	2	280	270
JUN 09...	0	10	0	10	2300	100	8	6	2	230	220
SEP 14...	0	20	14	6	5600	20	<100	<97	3	870	870

PLATTE RIVER BASIN

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06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDED MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	SUS- PENDED SELE- NIUM (SE) (UG/L) (01146)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS- PENDED ZINC (ZN) (UG/L) (01091)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
DEC 10...	0	.1	.1	.0	2	1	1	50	30	20	--
JAN 28...	--	--	--	--	--	--	--	--	--	--	3.7
MAR 10...	10	.4	.4	.0	2	1	1	50	50	0	8.7
JUN 09...	10	<.5	.0	<.5	3	3	0	30	20	10	9.9
SEP 14...	0	.0	.0	.0	1	0	1	50	30	20	48
DATE	TIME	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG) (39333)	TOTAL CHLOR- DANE (UG/L) (39350)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG) (39351)	TOTAL DDD (UG/L) (39360)	DDD IN BOTTOM MA- TERIAL (UG/KG) (39363)	TOTAL DDE (UG/L) (39365)	DDE IN BOTTOM MA- TERIAL (UG/KG) (39368)	TOTAL DDT (UG/L) (39370)	DDT IN BOTTOM MA- TERIAL (UG/KG) (39373)
NOV 18...	1045	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 11...	1140	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 06...	1130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 10...	1330	ND	--	ND	--	ND	--	ND	--	ND	--
DATE	TOTAL DI- AZINON (UG/L) (39570)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG) (39571)	TOTAL DI- ELDRIN (UG/L) (39380)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG) (39383)	TOTAL ENDRIN (UG/L) (39390)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG) (39393)	TOTAL ETHION (UG/L) (39398)	ETHION IN BOTTOM MA- TERIAL (UG/KG) (39399)	TOTAL HEPTA- CHLOR (UG/L) (39410)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG) (39413)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L) (39420)
NOV 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 11...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
MAY 06...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 10...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
DATE	TOTAL HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG) (39423)	LINDANE IN BOTTOM MA- TERIAL (UG/KG) (39340)	TOTAL LINDANE (UG/L) (39343)	TOTAL MALA- THION (UG/L) (39530)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG) (39531)	TOTAL METHO- XY- CHLOR (UG/L) (39480)	METHOX- YCHLOR IN BOT- TOM MA- TERIAL (UG/KG) (39481)	TOTAL METHYL PARA- THION (UG/L) (39600)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG) (39601)	TOTAL METHYL TRI- THION (UG/L) (39790)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG) (39791)
NOV 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 11...	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 06...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 10...	--	ND	--	ND	--	ND	--	ND	--	ND	--

PLATTE RIVER BASIN

06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL PARA- THION (UG/L) (39540)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG) (39541)	TOTAL TOX- APHENE (UG/L) (39400)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG) (39403)	TOTAL TRI- THION (UG/L) (39786)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)	TOTAL ATRA- ZINE (UG/L) (39630)
NOV 18...	ND	ND	ND	ND	ND	ND	--	--	--	--
FEB 11...	ND	--	ND	--	ND	--	ND	ND	ND	ND
MAY 06...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 10...	ND	--	ND	--	ND	--	ND	ND	ND	ND

DATE	TOTAL PHYTO- PLANK- TON (CELLS PER ML) (60050)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI- PHYTON BIOMASS DRY WEIGHT G/SQ M (00573)	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL A MG/SQ M (32229)	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL B MG/SQ M (32226)
OCT 29...	82000	--	--	--	--
NOV 12...	59000	--	--	--	--
DEC 10...	4600	--	--	--	--
JAN 28...	2600	--	--	--	--
FEB 11...	5800	--	--	--	--
APR 06...	45000	--	--	--	--
21...	--	41.0	46.0	32.0	.000
MAY 06...	97000	--	--	--	--
JUN 09...	220000	--	--	--	--
JUL 14...	180000	--	--	--	--
AUG 10...	450000	--	--	--	--
SEP 02...	--	21.0	24.5	3.11	.141
28...	--	21.0	24.0	3.10	.140

06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	580	482	660	643	480	555	527	527	477	487	1410	3450
2	602	504	520	548	459	506	535	542	492	547	622	3290
3	527	454	530	548	492	549	542	560	545	838	480	3320
4	599	456	540	618	544	663	565	581	595	717	468	2690
5	614	456	500	651	544	775	609	621	649	530	442	2250
6	634	456	474	701	540	904	595	667	725	671	1180	2720
7	675	441	494	857	531	820	618	680	676	606	562	2420
8	670	436	488	875	528	602	646	679	715	428	1200	2030
9	666	463	494	908	518	630	688	685	670	536	1780	1540
10	593	433	493	947	509	491	624	643	624	616	1350	1480
11	636	445	478	950	501	439	633	695	848	531	1740	898
12	680	466	473	830	471	481	664	618	881	638	1060	818
13	630	460	481	658	475	516	626	594	619	725	1800	609
14	543	448	461	630	567	512	657	569	851	1130	1560	445
15	527	441	525	597	439	529	653	577	731	2190	1110	402
16	647	453	719	571	407	518	648	638	694	1090	1530	436
17	544	441	710	544	406	524	568	517	849	1680	1910	405
18	581	450	698	546	410	518	599	580	978	2050	1750	526
19	561	446	680	547	390	530	580	606	836	1200	1140	378
20	510	430	655	537	426	574	602	641	651	1550	1370	685
21	491	426	640	506	408	537	547	609	810	1420	1080	413
22	512	416	628	492	434	537	531	520	749	709	1400	501
23	529	375	617	488	445	564	544	444	1110	709	1370	638
24	521	548	609	485	499	565	545	360	849	1250	1540	634
25	499	799	610	486	520	566	546	344	886	1400	1540	423
26	511	1020	572	470	528	587	529	353	562	1480	1850	444
27	501	1260	551	489	514	564	535	404	364	1690	1990	611
28	477	1170	515	488	502	541	520	448	363	1810	2430	444
29	463	741	509	477	529	613	524	456	362	1790	2890	426
30	486	733	509	480	---	518	512	443	391	1630	2790	432
31	484	---	516	472	---	476	---	474	---	1620	2400	---
MONTH	564	552	560	614	483	571	584	551	685	1110	1480	1190

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	15.5	0.0	0.0	0.0	3.5	14.5	16.5	27.5	27.5	27.0	28.5
2	16.5	12.0	0.0	0.0	0.0	2.5	14.0	11.5	27.0	24.5	29.5	29.5
3	20.0	14.0	0.5	0.0	0.0	2.0	12.5	15.5	27.0	24.5	27.5	32.0
4	20.0	15.5	0.5	0.0	0.0	1.0	10.0	18.5	27.0	27.5	29.0	32.5
5	18.5	15.0	1.0	0.0	0.0	0.5	16.0	19.0	26.5	26.5	26.5	21.0
6	20.0	15.0	0.0	0.0	0.0	0.5	16.5	16.5	24.5	28.5	28.5	20.0
7	20.5	15.5	0.5	0.0	0.5	2.0	13.5	17.0	28.5	28.5	29.0	29.0
8	19.0	12.5	1.0	0.0	0.5	2.5	16.5	15.5	29.0	29.5	22.5	16.5
9	18.5	10.0	1.5	0.0	1.0	5.0	15.5	14.5	29.0	30.5	32.0	22.5
10	17.0	9.0	3.5	0.0	0.5	4.0	18.5	17.0	28.5	31.0	32.0	16.5
11	17.0	10.0	1.0	0.0	1.0	4.5	13.5	18.5	30.0	26.5	32.5	26.5
12	17.0	4.5	0.5	0.0	2.5	3.5	15.5	19.0	27.0	33.5	32.0	18.5
13	18.5	3.5	0.0	0.0	2.0	1.0	17.5	17.5	26.5	30.5	29.5	19.0
14	20.0	5.0	0.5	0.0	0.5	2.0	21.5	20.0	25.5	31.5	31.0	19.0
15	16.0	8.5	0.0	0.0	1.5	2.5	22.5	17.5	21.0	29.5	26.0	19.5
16	15.5	6.5	0.0	0.0	0.5	4.5	20.0	15.5	26.5	29.5	27.5	16.5
17	15.0	11.5	0.0	0.0	2.5	8.5	15.5	19.5	24.5	29.5	32.5	17.0
18	15.5	14.0	0.0	0.0	4.5	11.0	16.5	16.0	22.0	30.5	32.5	26.5
19	10.0	10.0	0.0	0.0	6.5	15.5	19.0	23.5	26.5	29.0	29.5	21.0
20	13.5	6.0	0.0	0.5	5.0	14.0	13.5	26.5	22.5	32.0	30.5	21.0
21	17.5	3.0	0.5	0.5	0.5	7.0	17.5	27.0	26.5	27.5	30.0	22.0
22	16.0	0.0	0.0	0.5	1.5	10.5	19.0	21.5	26.5	31.0	24.0	24.0
23	15.5	0.0	0.0	1.0	5.0	12.0	20.5	15.5	22.5	34.5	25.0	20.0
24	10.0	0.0	0.0	0.5	6.5	12.5	20.0	17.5	25.5	32.0	26.5	21.0
25	11.0	0.0	0.0	0.0	8.5	14.0	20.0	20.0	26.5	29.5	22.0	21.5
26	6.5	0.0	0.0	0.0	9.5	10.5	12.5	18.5	27.5	35.0	24.5	15.5
27	11.0	0.0	0.0	0.0	10.0	13.5	11.5	22.5	25.5	29.5	26.5	17.0
28	10.0	0.0	0.0	0.5	10.0	15.0	11.0	23.5	28.0	33.5	27.5	14.0
29	11.0	1.5	0.0	0.5	5.5	9.5	14.5	25.0	26.5	30.5	22.0	19.0
30	12.5	0.0	0.0	0.0	---	9.5	15.5	21.0	27.0	28.5	27.5	21.5
31	13.5	---	0.0	0.5	---	9.5	---	21.0	---	29.5	28.5	---
MONTH	15.5	7.5	0.5	0.0	3.0	7.0	16.0	19.0	26.5	29.5	28.0	21.5

PLATTE RIVER BASIN

06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	TEMPER- ATURE (DEG C) (00010)	SUS- PENDE DIAM. MENT (MG/L) (80154)	SUS- PENDE SED- MENT (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN .500 MM (70345)	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT 29...	1440	2840	13.5	256	1960	95	95	99	100	--
NOV 12...	1415	5400	4.0	578	8430	84	88	92	100	--
DEC 10...	1330	5340	3.5	366	5280	88	92	95	100	--
MAR 10...	1320	8520	3.0	223	5130	60	--	--	--	--
23...	1200	7090	14.5	589	11300	77	87	97	100	--
APR 06...	1430	7640	16.5	360	7430	49	72	93	99	100
MAY 06...	1130	5140	12.5	205	2840	44	65	90	99	100
JUN 09...	1130	2480	25.0	164	1100	81	97	99	100	--
JUL 14...	1145	726	26.0	100	196	94	98	99	99	100
AUG 10...	1330	468	28.0	120	152	81	--	--	--	--
SEP 14...	0945	1780	19.0	425	2040	82	86	93	96	99
28...	1110	1720	11.0	273	1270	82	90	93	98	100

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	NUMBER OF SAM- PLING POINTS (00063)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. FALL SIEVE DIAM. % FINER THAN 4.00 MM (80170)
APR 21...	1330	8020	4	2	31	83	96	99	100

06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2250	310	1880	2990	520	4200	4800	770	9980
2	2210	255	1520	3590	560	5430	6400	840	14500
3	2390	254	1640	3630	595	5830	6400	810	14000
4	2110	253	1440	3520	580	5510	6200	910	15200
5	2080	258	1450	3610	560	5460	4460	725	8730
6	2170	266	1560	3410	520	4790	4910	620	8220
7	2010	275	1490	3950	450	4800	4600	570	7080
8	1820	300	1470	3650	420	4140	4610	530	6600
9	1980	336	1800	3870	440	4600	5290	610	8710
10	2090	310	1750	3850	530	5510	5500	400	5940
11	1910	230	1190	4240	560	6410	6130	380	6290
12	1790	188	909	4520	578	7050	6210	500	8380
13	1950	200	1050	4610	590	7340	5880	500	7940
14	2070	223	1250	3930	610	6470	5000	530	7160
15	2150	162	940	3840	650	6740	3500	430	4060
16	1870	142	717	4070	684	7520	3600	200	1940
17	2290	170	1050	3860	640	6670	3200	260	2250
18	2160	200	1170	3590	570	5530	2600	450	3160
19	2400	240	1560	4090	640	7070	2900	330	2580
20	2370	275	1760	5500	970	14400	3300	290	2580
21	2450	270	1790	5460	1070	15800	3200	250	2160
22	2420	250	1630	4980	890	12000	3300	180	1600
23	2380	220	1410	3830	625	6460	3400	180	1650
24	2600	180	1260	2600	375	2630	3500	142	1340
25	2650	180	1290	1900	200	1030	3500	160	1510
26	2630	190	1350	1300	150	526	3500	200	1890
27	2680	225	1630	1500	240	972	3500	220	2080
28	3210	290	2510	1700	490	2250	3600	122	1190
29	3080	280	2330	4100	300	3320	3700	100	999
30	3010	350	2840	4000	780	8420	4000	150	1620
31	3210	450	3900	---	---	---	3400	180	1650
TOTAL	72390	---	49536	109690	---	178878	134090	---	162989
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3000	125	1010	5200	224	3140	6700	900	16300
2	2700	125	911	4600	260	3230	6000	810	13100
3	2300	160	994	4800	330	4280	5000	540	7290
4	1800	158	768	4700	370	4700	4500	500	6080
5	2100	156	885	4300	390	4530	3500	350	3310
6	1800	145	705	4100	400	4430	2800	130	983
7	1500	120	486	4300	380	4410	2800	100	756
8	1700	150	688	4400	350	4160	3020	89	726
9	1900	180	923	4500	270	3280	4180	100	1130
10	2400	250	1620	4600	220	2730	8540	280	6460
11	2200	230	1370	4600	200	2480	9880	740	19700
12	2800	156	1180	5200	370	5190	9590	770	19900
13	3500	160	1510	6200	530	8870	8230	830	18400
14	3000	170	1380	7200	720	14000	7190	780	15100
15	4500	200	2430	9400	1720	43700	6990	750	14100
16	4300	275	3190	17300	8000	381000	7240	760	14900
17	4100	230	2550	16400	5490	250000	7360	780	15500
18	4100	140	1550	13400	2250	81400	7010	820	15500
19	4000	150	1620	12300	1600	53100	7090	800	15300
20	3600	150	1460	11200	1360	41100	6700	710	12800
21	5200	147	2060	11300	1320	40300	6630	670	12000
22	4800	125	1620	9110	1150	28300	7020	610	11600
23	5600	125	1890	9280	1200	30100	6860	589	10900
24	5200	121	1700	7560	1000	20400	7110	630	12100
25	4500	150	1820	7450	743	14900	6290	710	12100
26	4000	171	1850	6750	720	13100	6100	660	10900
27	3700	140	1400	6600	710	12700	6030	550	8950
28	4900	112	1480	6650	700	12600	5800	500	7830
29	5200	170	2390	7100	730	14000	5730	470	7270
30	5400	220	3210	---	---	---	8020	680	14700
31	4900	210	2780	---	---	---	9120	1220	30000
TOTAL	110700	---	49430	220500	---	1106130	199030	---	355685

PLATTE RIVER BASIN

06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

APRIL					MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	10100	1480	40400	6830	680	12500	5080	1150	15800	
2	8740	920	21700	6200	650	10900	4820	790	10300	
3	7720	580	12100	6540	631	11100	4250	600	6880	
4	7390	480	9580	5700	550	8460	4100	430	4760	
5	6270	458	7750	4880	460	6060	3530	332	3160	
6	6990	360	6790	4910	270	3580	3400	300	2750	
7	6280	351	5950	4950	390	5210	3380	200	1830	
8	6260	350	5920	4230	350	4000	3070	200	1660	
9	5820	320	5030	4460	320	3850	2870	164	1270	
10	6150	380	6310	3970	400	4290	2960	193	1540	
11	6120	550	9090	3670	477	4730	2470	140	934	
12	5830	600	9440	3860	530	5520	2250	152	923	
13	6280	680	11500	4290	596	6900	2080	170	955	
14	5610	650	9850	3860	530	5520	1980	220	1180	
15	5740	740	11500	3890	420	4410	1970	280	1490	
16	6090	750	12300	4010	450	4870	1930	380	1980	
17	6530	730	12900	4270	420	4840	1710	380	1750	
18	6250	830	14000	3210	340	2950	1650	400	1780	
19	6610	790	14100	3350	260	2350	1480	260	1040	
20	6170	680	11300	2750	230	1710	1670	270	1220	
21	7350	830	16500	2440	166	1090	1480	240	959	
22	6830	670	12400	3440	800	7430	1430	179	691	
23	6560	730	12900	6870	3950	79400	1170	136	430	
24	7210	670	13000	16900	9600	435000	1610	190	826	
25	7760	770	16100	14200	5790	232000	1600	200	864	
26	7730	680	14200	11100	3500	105000	2710	718	8760	
27	7660	750	15500	9000	2320	56400	7010	2940	52400	
28	7520	760	15400	7820	1700	35900	5290	2400	34300	
29	6770	651	11900	6890	1280	23800	4410	2090	24900	
30	7360	710	14100	6960	1150	21600	2950	1500	11900	
31	---	---	---	5630	1550	23600	---	---	---	
TOTAL	205700	---	379510	181080	---	1134970	86310	---	199232	
JULY					AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	2460	750	4980	516	220	307	155	200	84	
2	2120	480	2750	1070	270	780	146	235	93	
3	1990	449	2410	1320	330	1180	131	250	88	
4	1720	410	1900	1340	320	1160	154	240	100	
5	2380	680	4370	1370	370	1370	179	205	99	
6	2240	520	3140	687	250	464	264	225	160	
7	2780	460	3450	1270	370	1270	201	215	117	
8	3300	530	4720	533	150	216	261	200	141	
9	2460	300	1990	316	120	102	380	190	195	
10	2480	340	2280	595	135	217	408	195	215	
11	1580	210	896	493	125	166	515	200	278	
12	1480	220	879	494	135	180	698	230	433	
13	1110	180	539	446	170	205	1020	295	812	
14	947	100	256	672	197	357	1440	380	1480	
15	705	121	230	761	185	380	1370	315	1170	
16	731	120	237	688	150	279	1230	275	913	
17	437	83	98	513	140	194	1300	245	860	
18	641	90	156	701	135	256	1080	220	642	
19	392	60	64	805	150	326	1730	290	1350	
20	443	100	120	706	164	313	1360	317	1160	
21	660	120	214	851	150	345	1530	270	1120	
22	1420	630	2420	764	135	278	1430	240	927	
23	1370	740	2740	873	170	401	1160	235	736	
24	770	430	894	703	195	370	1110	234	701	
25	629	180	306	500	205	277	1480	290	1160	
26	644	170	296	308	130	108	1830	390	1930	
27	616	154	256	333	165	148	1100	310	921	
28	511	180	248	243	220	144	1940	260	1360	
29	490	185	245	179	220	106	2390	250	1610	
30	553	200	299	150	205	83	2330	230	1450	
31	552	258	385	196	195	103	---	---	---	
TOTAL	40611	---	43768	20396	---	12085	30322	---	22305	
YEAR	1410819		3694518							

WEEPING WATER CREEK BASIN

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06806500 WEEPING WATER CREEK AT UNION, NE

LOCATION.--Lat 40°47'35", long 95°54'40", in NW1/4 sec.36, T.10 N., R.13 E., Cass County, Hydrologic Unit 10240001, near left bank on downstream side of pier of bridge on U.S. Highways 73 and 75, 1.5 mi (2.4 km) southeast of Union and 2.8 mi (4.5 km) downstream from South Branch Weeping Water Creek.

DRAINAGE AREA.--241 mi² (624 km²).

PERIOD OF RECORD.--February 1950 to current year.

REVISED RECORDS.--WSP 2118: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 929.72 ft (283.379 m) above mean sea level. Prior to May 14, 1951, nonrecording gage at site 2 mi (3 km) upstream at different datum. May 15, 1951, to Aug. 22, 1968, water-stage recorder for stages above 7.9 ft (2.41 m) and nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--26 years, 79.7 ft³/s (2.257 m³/s), 57,740 acre-ft/yr (71.2 hm³/yr); median of yearly mean discharges, 69 ft³/s (1.954 m³/s), 50,000 acre-ft/yr (61.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,300 ft³/s (1,710 m³/s) May 9, 1950, gage height, 26.80 ft (8.169 m), from floodmark, present site and datum, from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of measurement of peak flow through bridges and over highway embankment; minimum daily, 0.1 ft³/s (0.003 m³/s) Sept. 10-12, 14, 15, 17, 18, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 569 ft³/s (16.1 m³/s) Nov. 29, gage height, 8.12 ft (2.475 m); no peak above base of 3,000 ft³/s (85.0 m³/s); minimum daily, 1.7 ft³/s (0.048 m³/s) Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	26	59	18	26	39	55	77	44	12	6.9	2.2
2	9.2	18	47	17	23	36	41	69	40	12	7.1	1.9
3	9.5	18	35	15	31	31	33	60	36	11	7.2	2.0
4	11	19	29	14	25	24	28	57	32	9.4	5.9	2.3
5	9.2	18	28	14	22	22	26	54	34	9.1	5.3	2.2
6	8.0	16	25	16	20	22	25	49	33	8.9	4.6	2.2
7	8.0	14	24	16	19	23	27	44	31	7.5	4.4	2.2
8	7.2	14	22	15	21	23	41	44	30	8.3	4.4	1.7
9	7.4	18	21	16	26	30	41	44	28	7.0	4.2	1.8
10	7.4	24	21	18	32	77	36	43	25	5.1	4.1	2.0
11	9.2	26	20	24	33	66	32	41	24	4.6	3.9	1.9
12	7.8	21	19	28	31	70	27	47	20	4.4	4.1	1.9
13	7.6	17	20	32	30	50	25	56	18	4.3	4.6	1.8
14	8.3	16	30	29	27	48	24	56	19	4.5	15	1.8
15	8.0	16	22	26	32	43	25	52	19	4.2	12	1.9
16	8.6	17	25	27	45	40	48	80	19	5.4	6.2	1.9
17	8.3	16	20	23	54	38	60	69	43	4.2	5.4	2.0
18	8.9	16	14	22	43	37	68	57	143	4.2	4.6	2.0
19	9.8	17	12	20	35	36	44	49	27	4.1	4.4	2.1
20	10	32	17	19	28	34	36	44	23	17	4.1	2.2
21	11	29	16	21	25	29	48	40	23	111	4.2	2.2
22	11	23	15	21	30	28	38	40	22	24	4.1	2.3
23	11	19	16	22	35	27	37	257	20	12	4.0	2.3
24	11	15	16	24	40	25	390	199	36	9.9	3.5	2.4
25	11	16	17	21	44	24	256	86	29	8.3	3.4	2.6
26	12	16	17	19	53	27	145	62	34	8.9	3.1	2.6
27	13	16	17	18	52	25	161	53	117	7.8	2.9	2.7
28	13	18	18	21	51	26	211	49	21	8.9	2.5	2.7
29	13	224	18	26	47	29	115	47	17	7.8	2.6	3.2
30	16	154	18	27	---	43	84	52	13	7.1	2.5	3.2
31	13	---	19	24	---	50	---	47	---	7.0	2.3	---
TOTAL	307.4	909	697	653	980	1122	2227	2024	1020	359.9	153.5	66.2
MEAN	9.92	30.3	22.5	21.1	33.8	36.2	74.2	65.3	34.0	11.6	4.95	2.21
MAX	16	224	59	32	54	77	390	257	143	111	15	3.2
MIN	7.2	14	12	14	19	22	24	40	13	4.1	2.3	1.7
AC-FT	610	1800	1380	1300	1940	2230	4420	4010	2020	714	304	131

CAL YR 1975 TOTAL 18292.0 MEAN 50.1 MAX 676 MIN 7.2 AC-FT 36280
WTR YR 1976 TOTAL 10519.0 MEAN 28.7 MAX 390 MIN 1.7 AC-FT 20860

WEeping WATER CREEK BASIN

06806501 WEeping WATER CREEK NEAR UNION, NE

LOCATION.--Lat 40°47'46", long 95°54'17", in NE1/4NE1/4NW1/4 sec.36, T.10 N., R.13 E., Cass County, Hydrologic Unit 10240001, at county road bridge 1.1 mi (1.8 km) downstream from gaging station, 1.6 mi (2.6 km) southeast of Union, and 3.9 mi (6.3 km) downstream from South Branch Weeping Water Creek.

PERIOD OF RECORD.--Water year 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1972 to current year.

WATER TEMPERATURES: October 1972 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 705 micromhos Dec. 11, 1972; minimum daily, 159 micromhos Oct. 11, 1973.

WATER TEMPERATURES: Maximum, 34.0°C July 12, 1976; minimum, 0.0°C on several days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 694 micromhos Jan. 11; minimum daily, 218 micromhos July 21.

WATER TEMPERATURES: Maximum, 34.0°C July 12; minimum, 0.0°C on several days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	541	586	518	546	508	493	522	503	538	523	479	479
2	537	579	518	576	516	513	524	505	540	531	470	462
3	545	540	508	571	520	517	512	537	543	523	504	468
4	546	547	506	636	550	490	518	533	549	530	484	462
5	544	542	515	620	570	499	521	544	535	543	483	449
6	541	545	515	654	571	510	514	560	548	532	477	481
7	541	539	516	537	581	498	496	556	547	532	513	452
8	530	547	545	663	510	486	496	561	552	538	494	462
9	535	533	547	676	537	486	513	563	548	516	506	461
10	548	527	547	657	530	444	518	558	541	513	494	465
11	548	566	550	694	502	474	512	564	544	502	494	447
12	553	556	553	652	478	467	513	528	549	506	464	452
13	540	557	544	623	448	480	512	520	549	494	449	438
14	540	571	538	596	456	502	516	534	540	486	454	444
15	551	578	538	579	470	501	507	536	547	482	452	448
16	542	575	550	597	445	497	505	513	559	472	530	451
17	552	573	609	602	437	512	487	526	570	478	503	460
18	557	572	631	601	441	513	456	530	285	498	535	440
19	557	572	633	593	476	506	505	553	504	500	515	440
20	554	552	629	590	504	513	515	568	508	225	500	458
21	556	562	633	566	451	527	519	560	545	218	488	446
22	560	570	599	557	452	528	524	542	534	402	473	474
23	558	557	569	582	470	522	540	412	542	439	472	451
24	565	567	571	545	482	527	318	305	484	457	481	450
25	555	586	557	528	493	502	415	366	495	471	476	415
26	566	600	557	532	485	517	411	421	508	492	478	492
27	574	589	548	562	498	516	418	461	270	509	480	492
28	561	594	548	556	491	526	427	496	443	483	479	526
29	565	314	547	556	496	521	434	494	484	481	478	495
30	588	336	547	540	---	514	477	512	501	491	475	498
31	582	---	548	498	---	523	---	522	---	486	480	---
MONTH	553	548	556	590	495	504	488	512	513	479	486	462

WEeping WATER CREEK BASIN

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06806501 WEeping WATER CREEK NEAR UNION, NE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	13.0	1.0	1.0	0.5	4.5	11.0	17.0	24.5	28.0	26.5	27.0
2	14.5	13.0	1.5	1.0	1.0	4.5	12.0	13.0	25.0	26.5	29.0	27.0
3	15.0	14.0	2.5	0.0	1.5	3.5	10.0	17.0	25.0	26.5	29.0	27.0
4	15.5	14.0	4.5	0.5	0.5	1.5	10.0	17.0	25.5	27.0	30.5	27.0
5	17.5	14.0	6.5	0.0	0.5	0.0	12.0	17.0	25.5	28.0	29.5	27.0
6	17.0	14.0	4.5	0.0	0.5	1.0	16.0	17.0	26.5	28.0	29.0	27.0
7	17.5	14.5	4.0	0.0	1.0	1.0	15.5	17.0	26.5	27.5	29.0	27.0
8	17.5	13.5	3.0	0.0	1.5	3.0	15.5	18.0	26.5	28.5	28.0	24.0
9	17.5	12.0	4.0	0.0	2.5	5.5	16.0	18.0	27.0	29.5	30.0	22.0
10	17.5	10.0	4.5	0.5	1.5	4.0	15.5	19.0	28.0	31.0	31.0	22.5
11	18.5	9.5	3.0	1.0	2.0	4.0	15.0	21.5	30.0	33.0	31.0	23.0
12	20.0	7.0	3.0	1.0	2.0	4.0	17.5	18.5	30.0	34.0	29.0	24.0
13	20.0	4.5	4.0	1.0	2.5	5.0	17.5	18.0	29.0	32.0	27.5	24.5
14	19.0	5.0	4.5	1.0	2.0	4.0	19.0	18.5	28.0	32.0	25.0	24.5
15	16.0	6.0	0.5	1.0	2.5	3.0	21.0	17.0	26.0	28.5	24.0	24.0
16	14.0	7.5	0.5	0.5	2.0	5.0	20.0	15.0	26.0	29.0	26.0	23.5
17	15.0	9.5	0.0	0.5	2.0	7.0	16.5	17.0	28.0	30.0	30.0	23.0
18	14.0	10.5	1.0	0.5	3.0	11.5	16.0	18.5	24.0	30.0	31.0	23.5
19	13.5	12.0	2.0	1.0	6.0	12.0	18.0	22.0	24.0	30.0	31.0	23.5
20	14.5	6.0	1.5	1.0	4.5	14.0	18.0	24.0	24.0	28.0	30.0	21.0
21	15.0	4.0	1.5	1.5	3.0	9.0	18.0	26.0	27.0	25.0	30.5	22.0
22	16.5	3.0	0.5	1.5	3.0	9.0	20.0	23.5	28.5	28.5	30.0	21.5
23	15.5	4.0	1.0	1.5	5.0	9.5	20.5	22.0	28.0	31.0	31.0	21.0
24	12.5	0.5	1.0	1.5	5.0	12.5	16.0	18.0	26.0	31.5	30.0	20.5
25	11.0	0.0	0.5	1.0	7.0	12.5	14.0	22.0	27.0	32.0	29.0	20.5
26	10.5	0.5	0.5	1.0	7.0	11.5	13.0	21.0	28.0	32.0	29.5	19.0
27	10.5	0.5	1.0	1.5	5.5	9.5	13.0	23.5	27.0	32.0	28.0	18.0
28	12.0	1.0	1.0	2.0	6.0	9.5	13.0	24.0	28.5	31.0	26.0	16.0
29	10.0	4.5	1.0	2.0	6.0	10.5	13.0	24.0	28.0	30.5	27.0	17.0
30	10.5	2.0	1.5	1.5	---	11.0	15.5	25.0	28.0	29.5	27.0	18.0
31	14.0	---	1.0	1.0	---	10.5	---	23.5	---	29.0	27.0	---
MONTH	15.0	7.5	2.0	1.0	3.0	7.0	15.5	20.0	27.0	29.5	28.5	23.0

MISSOURI RIVER MAIN STEM

06807000 MISSOURI RIVER AT NEBRASKA CITY, NE
(National stream-quality accounting network station)

LOCATION.--Lat 40°40'55", long 95°50'48", in NW1/4NE1/4 sec.9, T.8 N., R.14 E., Otoe County, Hydrologic Unit 10240001, on right bank 0.7 mi (1.1 km) upstream from Waubonsie Highway Bridge at Nebraska City, and at mi 562.6 (905.2 km).

DRAINAGE AREA (REVISED).--410,000 mi² (1,062,000 km²), approximately. The 3,959 mi² (10,254 km²) in Great Divide basin are not included.

PERIOD OF RECORD.--August 1929 to current year. Gage-height records collected in this vicinity from August 1878 to December 1899 are contained in reports of Missouri River Commission.

REVISED RECORDS.--WSP 761: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 905.36 ft (275.954 m) above mean sea level, datum of 1929, supplementary adjustment of 1954. See WSP 1918 or 1919 for history of changes prior to Apr. 1, 1963.

REMARKS.--Records good. Flow partly regulated by upstream main-stem reservoirs. Corps of Engineers gage height telemeter at station. Records of chemical and biological analyses, water temperatures, and suspended-sediment discharges for the current year are published in WDR IA-76.

AVERAGE DISCHARGE.--47 years, 35,160 ft³/s (995.7 m³/s), 25,470,000 acre-ft/yr (31.4 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 414,000 ft³/s (11,700 m³/s) Apr. 19, 1952; maximum gage height, 27.66 ft (8.431 m) Apr. 18, 1952; minimum discharge, 1,600 ft³/s (45.3 m³/s) Dec. 31, 1946, discharge measurement; minimum gage height observed, -0.28 ft (-0.085 m) Dec. 24, 1960, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 77,300 ft³/s (2,190 m³/s) Nov. 21, gage height, 15.36 ft (4.682 m); minimum daily, 14,300 ft³/s (405 m³/s) Jan. 10; minimum gage height, 2.81 ft (0.856 m) Jan. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65500	65500	68000	30000	31800	35700	50000	46800	46000	43600	40400	39500
2	66600	64200	66200	30300	31600	35900	49600	46600	44800	43600	40000	39700
3	66600	66200	63900	29600	30700	35700	49000	45800	43800	42300	40400	40000
4	66600	67600	60000	26200	30500	35700	48300	45600	44000	42300	40200	39700
5	65500	66600	57600	24800	31000	34300	47800	44300	45300	41600	40000	39700
6	65800	66600	53600	25000	28000	32100	46600	43300	44600	40800	40200	39500
7	65200	66200	48800	24800	28000	32300	45300	42800	43600	41100	40000	39500
8	64800	67600	43300	24800	28900	33600	44600	43300	42300	41600	40000	39700
9	64800	68300	39000	19400	30300	33900	44000	42800	42600	42000	40000	40000
10	65500	69900	37000	14300	32300	36600	43600	42800	42600	41300	40200	40400
11	66600	69100	35000	15500	33400	41800	43800	41800	43000	41100	40400	40200
12	65500	68000	35000	26000	33900	41800	43300	41600	41800	40400	40600	39700
13	65200	69900	35200	24000	33400	42800	43000	42600	42600	39700	40400	39700
14	65200	68700	35700	26000	34300	42600	43800	42800	45300	39500	40800	40200
15	66200	67200	36100	26700	37500	44000	43800	42800	44600	40000	40400	40800
16	68000	68000	32500	30200	42800	44800	43300	43000	42800	40000	40400	40800
17	67600	68700	29800	29200	44300	43800	44600	43300	42300	40000	40400	40400
18	66600	68300	26000	25600	41800	43000	45600	43800	42800	40200	40400	40600
19	65800	66900	24200	26900	40400	45300	45800	42800	41800	40000	40600	40800
20	65800	70700	25400	28700	39700	44000	45800	41800	41600	40000	39700	41100
21	65800	76700	26400	29400	39300	44800	45300	40600	41600	40200	39700	40800
22	65200	75900	29200	28900	37900	46300	45600	43800	41300	40400	39700	41300
23	64800	71900	30000	30300	36600	46300	44800	51600	41800	40000	39700	40800
24	65800	71100	30000	30700	36400	45800	46800	58300	42300	40200	39700	40400
25	67600	69900	30000	31000	35200	46600	48800	61600	43000	40200	39500	41300
26	68000	68700	30500	31000	35400	46000	48800	53000	43800	40800	39700	41600
27	66600	66600	30500	30700	35700	46600	47800	48300	47300	41800	39700	41300
28	66600	64800	30500	28900	35900	45800	47300	46800	45600	42300	39700	41300
29	67600	66200	30500	28900	35400	47000	46600	47300	44600	41300	39500	41800
30	67600	68300	30300	31200	---	49800	46300	46300	44300	40800	39500	41800
31	66600	---	29800	32300	---	50600	---	46000	---	41100	39500	---
TOTAL	2051600	2054300	1180000	841300	1012400	1295300	1379700	1414000	1303800	1270200	1241400	1214400
MEAN	66180	66480	38060	27140	34910	41780	45990	45610	43460	40970	40050	40480
MAX	68000	76700	68000	32300	44300	50600	50000	61600	47300	43600	40800	41800
MIN	64800	64200	24200	14300	28000	32100	43000	40600	41300	39500	39500	39500
AC-FT	4069000	4075000	2341000	1669000	2008000	2569000	2737000	2805000	2586000	2519000	2462000	2409000

CAL YR 1975 TOTAL 17613800 MEAN 48260 MAX 76700 MIN 11200 AC-FT 34940000
WTR YR 1976 TOTAL 16258400 MEAN 44420 MAX 76700 MIN 14300 AC-FT 32250000

M Expressed in thousands.

LITTLE NEMAH RIVER BASIN

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06811500 LITTLE NEMAH RIVER AT AUBURN, NE

LOCATION.--Lat 40°23'33", long 95°48'46", in NE1/4NW1/4 sec.23, T.5 N., R.14 E., Nemaha County, Hydrologic Unit 10240006, on left bank at downstream side of bridge on U.S. Highway 136, 1 mi (2 km) downstream from Longs Creek and Willow Creek and 1 mi (2 km) east of Auburn.

DRAINAGE AREA.--793 mi² (2,054 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1949 to current year.

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 889.87 ft (271.232 m) above mean sea level. See WSP 2119 for history of changes prior to July 24, 1967.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--27 years, 269 ft³/s (7.618 m³/s), 194,900 acre-ft/yr (0.240 km³/yr); median of yearly mean discharges, 180 ft³/s (5.098 m³/s), 130,000 acre-ft/yr (0.160 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 164,000 ft³/s (4,640 m³/s) May 9, 1950, gage height, 27.65 ft (8.428 m), from floodmark, from rating curve extended above 49,000 ft³/s (1,390 m³/s) on basis of computations of peak flow through bridge and culvert openings and over highway and railway embankments at gage heights 24.96 ft (7.608 m) and 27.65 ft (8.428 m); minimum daily, 4.2 ft³/s (0.12 m³/s) Aug. 7, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,000 ft³/s (283 m³/s) Apr. 24 at 1400, gage height, 17.00 ft (5.182 m), from highwater mark; no other peak above base of 5,000 ft³/s (142 m³/s); minimum daily, 17 ft³/s (0.48 m³/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	54	160	60	58	115	165	317	156	73	65	20
2	34	55	119	52	54	101	112	269	141	68	56	20
3	35	55	97	46	52	92	94	232	130	75	47	20
4	34	55	89	41	50	95	85	206	122	74	43	20
5	33	54	83	42	48	76	79	194	116	68	38	22
6	33	51	77	42	48	100	76	179	112	63	33	22
7	33	49	74	39	54	118	77	163	106	60	31	20
8	34	47	72	37	60	134	290	152	102	58	29	18
9	32	47	73	40	70	137	233	145	98	51	29	23
10	31	55	72	47	94	243	136	141	93	44	26	24
11	33	55	71	52	84	246	110	136	88	39	28	25
12	34	49	71	60	82	198	98	137	82	35	32	28
13	33	44	71	64	76	161	90	164	76	32	29	31
14	32	45	76	76	72	132	84	169	74	29	26	33
15	31	46	70	72	78	123	82	158	70	35	30	28
16	32	45	64	66	82	117	155	243	69	47	36	28
17	34	44	60	62	96	115	912	296	68	36	32	27
18	35	44	56	66	96	110	450	218	1360	34	28	29
19	37	45	74	70	83	106	236	164	282	35	25	34
20	38	67	70	60	76	101	180	139	164	32	22	35
21	39	72	64	60	72	95	354	125	121	358	21	34
22	39	61	66	62	74	88	272	284	101	323	21	33
23	40	52	66	64	100	84	244	1000	92	151	21	31
24	40	41	64	66	110	79	7230	556	128	97	20	31
25	38	30	62	54	126	75	3140	287	135	77	19	53
26	38	35	62	46	155	77	870	216	106	66	21	70
27	38	45	60	45	162	77	664	184	197	61	18	58
28	40	58	60	52	147	77	1390	164	161	62	18	42
29	40	82	60	54	135	81	529	195	100	71	17	37
30	40	460	66	62	---	97	378	259	83	62	20	36
31	43	---	64	60	---	207	---	194	---	67	21	---
TOTAL	1108	1942	2293	1719	2494	3657	18815	7286	4733	2383	902	932
MEAN	35.7	64.7	74.0	55.5	86.0	118	627	235	158	76.9	29.1	31.1
MAX	43	460	160	76	162	246	7230	1000	1360	358	65	70
MIN	31	30	56	37	48	75	76	125	68	29	17	18
AC-FT	2200	3850	4550	3410	4950	7250	37320	14450	9390	4730	1790	1850
CAL YR 1975	TOTAL	45081	MEAN 124	MAX 2130	MIN 19	AC-FT 89420						
WTR YR 1976	TOTAL	48264	MEAN 132	MAX 7230	MIN 17	AC-FT 95730						

LITTLE NEMAH RIVER BASIN

06811500 LITTLE NEMAH RIVER AT AUBURN, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT 16...	1700	33	821	8.3	15.5	6	7.1	5.8	10300	2120	23
NOV 04...	1245	55	638	7.2	15.0	15	12.0	4.2	3000	1240	22
DEC 03...	1030	97	531	7.3	2.0	180	13.8	8.0	21670	82500	15
JAN 06...	1330	42	756	7.8	.5	6	13.4	4.5	12800	1140	23
FEB 17...	1320	99	525	7.3	8.5	20	13.8	3.9	4500	333	15
MAR 09...	1500	142	512	7.2	8.0	90	11.6	2.8	1570	4600	11
APR 19...	1310	227	450	7.6	18.0	210	11.8	9.9	13300	90000	9.6
MAY 12...	1400	140	596	7.8	15.5	25	7.4	9.9	4800	5500	15
JUN 01...	1245	156	543	7.4	20.0	110	16.0	8.9	3400	733	9.5
JUL 13...	1215	32	657	7.7	28.0	15	--	6.6	1233	383	20
AUG 02...	1145	58	599	8.3	24.0	3	8.3	2.6	2500	260	21
SEP 14...	1145	33	630	7.7	21.0	25	7.7	5.6	6200	3600	25

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT 16...	419	.57	37.4	.13	.02	1.2	1.2	1.3	.49	.43
NOV 04...	394	.54	58.5	.25	.09	1.3	1.4	1.7	.38	.34
DEC 03...	--	.41	78.8	1.4	.59	.18	.77	2.2	.30	.26
JAN 06...	485	.66	55.3	2.2	.24	.64	.88	3.1	.39	.35
FEB 17...	322	.44	86.1	1.1	.14	.96	1.1	2.2	.36	.21
MAR 09...	--	.40	112	1.5	.14	1.8	1.9	3.4	.51	.27
APR 19...	282	.38	173	2.0	.00	3.4	3.4	5.4	.78	.26
MAY 12...	742	1.01	280	1.4	.01	2.3	2.3	3.7	.73	.35
JUN 01...	--	.44	136	2.1	.05	1.5	1.5	3.6	.60	--
JUL 13...	414	.56	36.4	.82	.14	.78	.92	1.7	.40	.25
AUG 02...	378	.51	59.2	.55	.11	.35	.46	1.0	.33	.35
SEP 14...	--	.53	34.9	.78	.39	.81	1.2	2.0	.37	.26

LITTLE NEMAHA RIVER BASIN

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06811500 LITTLE NEMAHA RIVER AT AUBURN, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
DEC 03...	1030	20	200	9	59	12	29	.9	7.7	229
MAR 09...	1500	20	200	0	59	13	30	.9	4.8	248
JUN 01...	1245	8	210	0	58	17	29	.9	5.5	271
SEP 14...	1145	4	260	28	71	21	41	1.1	4.6	288

DATE	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
DEC 03...	0	188	50	.3	15	301	--	60	--	--
MAR 09...	0	203	36	.4	14	291	4	0	1	0
JUN 01...	0	222	51	.4	18	322	--	60	--	--
SEP 14...	0	236	69	.4	18	392	6	80	0	0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
DEC 03...	--	70	--	50	--	--	--	--	--	--
MAR 09...	8	70	6	70	.0	.0	.0	3	0	10
JUN 01...	--	60	--	30	--	--	--	--	--	--
SEP 14...	3	10	0	110	.0	.0	.0	1	0	0

MISSOURI RIVER MAIN STEM

06813500 MISSOURI RIVER AT RULO, NE

LOCATION.--Lat 40°03'14", long 95°25'12", in NW1/4NW1/4 sec.17, T.1 N., R.18 E., Richardson County, Hydrologic Unit 10240005, on downstream end of middle pier of bridge on U.S. Highway 159 at Rulo, 3.2 mi (5.1 km) upstream from Nemaha River, and at mi 498.0 (801.3 km).

DRAINAGE AREA (REVISED).--414,900 mi² (1,075,000 km²), approximately. The 3,959 mi² (10,254 km²) in Great Divide basin are not included.

PERIOD OF RECORD.--October 1949 to current year in reports of Geological Survey. Gage-height record collected at site 80 ft upstream January 1886 to December 1899 published in reports of Missouri River Commission; September 1929 to September 1950 in files of Kansas City Office of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 837.23 ft (255.188 m) above mean sea level. Prior to Sept. 13, 1950, nonrecording gage at site 80 ft (24 m) upstream at same datum.

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by upstream main-stem reservoirs. Several observations of water temperatures were made during the year. National Weather Service gage height telemeter at station.

AVERAGE DISCHARGE.--27 years, 39,120 ft³/s (1,108 m³/s), 28,340,000 acre-ft/yr (34.9 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 358,000 ft³/s (10,100 m³/s) Apr. 22, 1952, gage height, 25.60 ft (7.803 m); minimum daily, 4,420 ft³/s (125 m³/s) Jan. 13, 1957; minimum gage height, 0.65 ft (0.198 m) Jan. 7, 1971, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1881 reached a stage of 22.9 ft (6.98 m), from floodmark, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 79,400 ft³/s (2,250 m³/s) Nov. 22, gage height, 15.19 ft (4.630 m); minimum daily, 15,000 ft³/s (425 m³/s) Jan. 11; minimum gage height observed, 4.17 ft (1.271 m) Jan. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67500	65100	71200	31400	33200	38800	51800	48900	49400	44600	43100	40100
2	67100	63900	68600	31300	32900	38300	50700	48200	48400	44100	40700	40200
3	67800	65400	66400	30600	32500	38400	49300	47300	46200	45700	40800	40500
4	67300	67600	61100	29000	31700	38200	49000	46700	44700	44100	41100	40600
5	66100	67900	59500	25400	31000	37600	48800	46000	46000	43900	40800	40300
6	65600	68200	55900	25100	30400	34300	47400	45600	47000	43900	41100	40400
7	66000	68500	50700	25500	28500	33200	46000	45000	45600	43500	41200	40100
8	64900	68700	46200	25000	29100	34100	45700	44300	44700	43300	40600	40100
9	64900	69700	41300	21000	29600	34600	46200	44100	44300	43400	40700	40100
10	65700	72700	39200	17000	31500	35000	44500	43700	44100	42700	40600	40200
11	67100	73700	37200	15000	33300	40500	44500	43500	43700	42600	40600	40600
12	66900	71000	36200	19500	33900	43200	44000	43200	43300	42000	41200	39800
13	65300	71000	36200	26300	33900	45000	44000	44700	42400	41000	40900	39700
14	64800	71500	36600	24900	33700	44500	44200	45200	49500	40000	41100	40200
15	65300	68300	37400	27400	36000	43800	45300	45000	69100	40400	42400	40900
16	67200	67800	35200	27100	41700	45600	45300	45000	51000	41000	40800	41500
17	68300	68000	31900	32500	47700	46700	46000	44600	45700	41100	40900	41500
18	67500	68800	29900	26100	44900	43600	52000	44300	48400	40500	41000	41400
19	65800	68200	26900	25800	42200	45500	48000	43600	47800	40400	41200	42100
20	65800	70700	26900	28000	42400	45000	47500	43300	43700	40300	40400	42400
21	66700	71800	27300	30000	44300	44300	47000	42000	42700	41500	40000	41600
22	66400	78000	28900	29900	41400	46200	47900	42100	42200	43200	40600	41800
23	66500	72800	30300	29900	38400	48500	47300	56400	41900	41900	40800	42300
24	67400	70600	30600	31000	37600	46200	52000	67000	43200	40900	40600	41500
25	69100	70700	30400	31200	36100	47300	55000	67300	43100	40500	40100	41800
26	69800	69200	30500	31200	36400	47100	54500	57900	43200	40500	40100	42900
27	69600	67000	31000	31300	38800	48000	54400	53800	46600	41000	40300	42000
28	68900	65000	31100	30400	37900	47400	53200	52000	50100	43500	40600	41500
29	68600	67500	31200	29700	38500	47200	50400	54200	45800	44400	40400	41900
30	67800	73500	31700	30900	---	49400	48000	53400	45100	41800	40000	42400
31	66300	---	31700	33200	---	51800	---	51100	---	42200	40000	---
TOTAL	2074000	2082800	1229200	852600	1049500	1329300	1449900	1499400	1388900	1309900	1264700	1232400
MEAN	66900	69430	39650	27500	36190	42880	48330	48370	46300	42250	40800	41080
MAX	69800	78000	71200	33200	47700	51800	55000	67300	69100	45700	43100	42900
MIN	64800	63900	26900	15000	28500	33200	44000	42000	41900	40000	40000	39700
AC-FT	4114000	4131000	2438000	1691000	2082000	2637000	2876000	2974000	2755000	2598000	2509000	2444000

CAL YR 1975 TOTAL 18458500 MEAN 50570 MAX 81800 MIN 13000 AC-FT 36610000
WTR YR 1976 TOTAL 16762600 MEAN 45800 MAX 78000 MIN 15000 AC-FT 33250000

M Expressed in thousands.

06814000 TURKEY CREEK NEAR SENECA, KS

LOCATION.--Lat 39°56'52", long 96°06'30", in SW1/4NW1/4SW1/4 sec.20, T.1 S., R.12 E., Nemaha County, Hydrologic Unit 10240007, at downstream side of highway bridge, 2.0 mi (3.2 km) downstream from Clear Creek, 5.0 mi (8.0 km) upstream from Big Nemaha River, and 8.0 mi (12.9 km) northwest of Seneca.

DRAINAGE AREA.--276 mi² (715 km²).

PERIOD OF RECORD.--October 1948 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Altitude of gage is 1,160 ft (354 m), from topographic map. Prior to Oct. 19, 1956, water-stage recorder (occasional operation only) and nonrecording gage on former channel 400 ft (120 m) south of present site at present datum. Oct. 19, 1956, to June 15, 1957, nonrecording gage at highway bridge 1.2 mi (1.9 km) upstream at different datum. June 16, 1957, to Mar. 27, 1958, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--28 years, 121 ft³/s (3.427 m³/s), 87,660 acre-ft/yr (0.108 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,400 ft³/s (606 m³/s) Oct. 11, 1973, gage height, 24.77 ft (7.550 m); no flow at times in 1956-57.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,100 ft³/s (87.8 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 18	0100	*4090 116	19.70 6.005
Apr. 21	0900	4030 114	19.62 5.980

Minimum discharge, 1.1 ft³/s (0.031 m³/s) Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	8.3	36	10	9.0	32	42	228	75	43	15	2.5
2	4.0	15	31	9.0	9.0	25	30	187	65	1170	14	2.6
3	3.7	20	19	8.0	11	21	25	146	58	291	13	2.3
4	3.2	14	16	6.0	10	48	23	129	52	98	12	2.4
5	2.8	11	12	5.5	10	89	22	125	48	59	11	2.1
6	2.7	8.4	11	5.0	10	110	21	124	59	47	11	2.2
7	2.5	7.1	9.9	4.0	11	156	22	96	47	47	11	2.0
8	2.4	6.3	9.5	4.0	12	132	338	85	43	48	9.8	1.8
9	2.1	5.9	9.2	4.1	11	79	128	80	39	37	8.6	1.8
10	2.0	5.8	10	4.1	11	55	59	77	36	31	8.0	2.0
11	2.2	6.9	9.5	4.3	12	62	44	70	36	28	8.2	2.0
12	2.7	6.7	9.4	4.7	13	49	35	64	34	26	17	2.0
13	2.5	6.4	9.6	6.9	14	36	31	73	30	24	11	2.4
14	2.2	6.0	73	9.0	15	36	29	73	27	22	8.5	2.7
15	2.1	6.0	21	9.0	16	32	27	77	26	21	8.6	2.6
16	2.5	6.0	15	8.8	17	30	76	209	24	22	8.7	2.6
17	4.5	5.9	12	8.6	17	34	1580	372	23	32	8.1	2.0
18	4.7	7.0	12	9.0	15	34	1590	198	23	36	7.0	2.0
19	3.0	7.6	13	9.0	13	33	285	91	24	25	6.0	7.3
20	3.7	21	14	8.6	18	27	812	66	21	20	5.1	9.1
21	5.6	18	12	9.0	38	23	2880	56	20	68	4.9	4.5
22	3.4	12	13	9.6	24	21	664	214	19	155	4.5	2.6
23	3.0	9.6	12	8.8	32	20	454	976	18	41	4.0	2.2
24	3.5	8.7	12	7.4	44	18	1590	330	55	25	3.9	1.6
25	4.2	13	12	6.8	52	18	1350	181	38	21	3.9	12
26	3.5	14	11	6.6	69	20	516	128	23	18	3.9	17
27	3.5	13	10	6.8	55	19	372	108	28	17	3.4	7.4
28	3.8	14	10	7.0	40	18	351	96	1220	19	2.7	4.7
29	3.6	33	9.0	7.5	34	20	286	161	172	20	2.5	2.6
30	4.0	88	9.5	8.0	---	56	258	147	62	17	2.6	2.0
31	4.3	---	9.5	8.5	---	68	---	92	---	15	2.6	---
TOTAL	103.3	404.6	472.1	223.6	642.0	1421	13940	5059	2445	2543	240.5	113.0
MEAN	3.33	13.5	15.2	7.21	22.1	45.8	465	163	81.5	82.0	7.76	3.77
MAX	5.6	88	73	10	69	156	2880	976	1220	1170	17	17
MIN	2.0	5.8	9.0	4.0	9.0	18	21	56	18	15	2.5	1.6
AC-FT	205	803	936	444	1270	2820	27650	10030	4850	5040	477	224
CAL YR 1975	TOTAL	25467.4	MEAN	69.8	MAX	1930	MIN	1.5	AC-FT	50510		
WTR YR 1976	TOTAL	27607.1	MEAN	75.4	MAX	2880	MIN	1.6	AC-FT	54760		

BIG NEMAH RIVER BASIN

06814500 NORTH FORK BIG NEMAH RIVER AT HUMBOLDT, NE

LOCATION.--Lat 40°09'25", long 95°56'40", in NW1/4NE1/4 (revised) sec.10, T.2 N., R.13 E., Richardson County, Hydrologic Unit 10240008, on right pile bent of bridge on State Highway 1C5 at south edge of Humboldt, 800 ft (244 m) downstream from Long Branch Creek.

DRAINAGE AREA.--548 mi² (1,419 km²).

PERIOD OF RECORD.--October 1952 to current year. Prior to October 1965 published as North Fork Nemaha River at Humboldt.

REVISED RECORDS.--WSF 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 944.44 ft (287.865 m) above mean sea level. Prior to Apr. 5, 1968, nonrecording gage at present site and datum.

REMARKS.--Records fair except those for winter period, which are poor.

AVERAGE DISCHARGE.--24 years, 186 ft³/s (5.268 m³/s), 134,800 acre-ft/yr (0.166 km³/yr); median of yearly mean discharges, 110 ft³/s (3.115 m³/s), 79,700 acre-ft/yr (98.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 51,000 ft³/s (1,440 m³/s) July 10, 1958, gage height, 31.70 ft (9.662 m); minimum daily, 6.2 ft³/s (0.18 m³/s) Aug. 8, 9, 1957, July 12, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft³/s (142 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 17	1400	*8270 234	11.92 3.633
Apr. 24	1600	*8270 234	11.92 3.633

Minimum daily discharge, 6.5 ft³/s (0.18 m³/s) Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	31	92	32	36	64	206	186	92	31	28	13
2	20	41	72	31	32	52	101	156	79	28	27	9.3
3	21	38	47	30	31	43	74	126	68	30	25	13
4	21	34	38	33	30	106	60	116	59	29	22	11
5	21	29	35	32	29	104	54	116	55	26	20	14
6	26	27	31	30	32	150	50	108	54	24	18	15
7	22	27	30	28	37	173	60	95	53	26	20	11
8	21	26	33	25	46	169	683	87	52	32	14	11
9	20	27	32	26	58	97	274	83	47	28	16	14
10	21	28	30	27	55	133	124	81	43	19	14	14
11	22	29	30	30	44	182	89	77	43	14	17	12
12	23	26	30	33	42	141	70	79	40	11	21	15
13	22	25	35	38	42	86	61	95	36	10	19	18
14	21	27	55	45	39	83	57	100	33	9.2	19	22
15	21	27	48	42	39	64	53	99	32	15	19	19
16	20	27	35	39	52	65	190	186	27	34	25	18
17	22	28	32	37	48	66	2500	237	25	32	24	19
18	23	28	29	39	44	62	656	143	39	46	19	17
19	23	35	36	43	42	54	220	101	39	41	15	22
20	23	54	35	40	251	49	1010	85	31	22	12	30
21	23	43	32	41	209	43	1540	75	29	327	12	21
22	24	34	34	41	72	43	420	437	25	701	13	18
23	24	38	34	42	97	39	216	1510	24	212	16	16
24	24	34	33	39	128	38	5650	459	82	96	15	15
25	23	30	32	36	140	38	2170	205	53	56	13	32
26	23	29	31	34	137	44	636	134	38	39	9.5	59
27	25	31	32	34	91	41	417	110	41	33	7.9	45
28	26	40	31	34	87	37	499	97	163	153	6.5	28
29	23	62	29	35	80	48	330	101	46	227	7.6	24
30	21	99	31	39	---	138	228	125	32	68	13	23
31	23	---	32	38	---	492	---	129	---	34	10	---
TOTAL	694	1054	1156	1093	2070	2944	18698	5738	1480	2453.2	517.5	598.3
MEAN	22.4	35.1	37.3	35.3	71.4	95.0	623	185	49.3	79.1	16.7	19.9
MAX	26	99	92	45	251	492	5650	1510	163	701	28	59
MIN	20	25	29	25	29	37	50	75	24	9.2	6.5	9.3
AC-FT	1380	2090	2290	2170	4110	5840	37090	11380	2940	4870	1030	1190
CAI YR 1975	TOTAL	34281.0	MEAN	93.9	MAX	3950	MIN	11	AC-FT	68000		
WTR YR 1976	TOTAL	38496.0	MEAN	105	MAX	5650	MIN	6.5	AC-FT	76360		

BIG NEMAHIA RIVER BASIN

247

06815000 BIG NEMAHIA RIVER AT FALLS CITY, NE

LOCATION.--Lat 40°02'00", long 95°35'30", on line between secs.22 and 23, T.1 N., R.16 E., Richardson County, Hydrologic Unit 10240008, near right bank on downstream side of pier of bridge on U.S. Highway 73, 1 mi (2 km) south of Falls City and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--1,340 mi² (3,471 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1944 to current year. Prior to October 1965, published as Nemaha River at Falls City.

REVISED RECORDS.--WSP 1086: Drainage area.

GAGE.--Water-stage recorder for stages above 6.1 ft (1.86 m); nonrecording gage read twice daily. Datum of gage is 861.24 ft (262.506 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 16, 1952, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter period, which are poor.

AVERAGE DISCHARGE.--32 years, 572 ft³/s (16.20 m³/s), 414,400 acre-ft/yr (0.511 km³/yr); median of yearly mean discharges, 380 ft³/s (10.76 m³/s), 275,000 acre-ft/yr (0.339 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,600 ft³/s (2,030 m³/s) Oct. 11, 1973, gage height, 31.40 ft (9.571 m); minimum daily discharge, 4.3 ft³/s (0.12 m³/s) Dec. 15, 16, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,700 ft³/s (331 m³/s) Apr. 24, gage height, 14.60 ft (4.450 m), no peak above base of 15,000 ft³/s (425 m³/s); minimum daily, 27 ft³/s (0.76 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	63	750	105	96	201	500	734	369	346	103	29
2	72	103	304	80	78	167	276	614	334	260	89	31
3	74	120	252	70	70	152	201	534	304	3160	85	32
4	53	145	186	60	74	225	164	478	280	548	74	28
5	50	118	159	78	76	450	145	428	270	304	56	29
6	48	98	139	74	74	370	136	412	270	224	63	30
7	53	84	124	66	90	778	134	548	257	190	51	28
8	48	75	124	50	108	657	332	406	235	174	59	28
9	44	91	110	70	101	492	778	357	212	195	53	27
10	37	98	114	84	96	388	422	329	199	154	51	28
11	36	101	110	98	110	412	338	306	190	118	226	28
12	35	94	112	96	118	398	201	304	180	108	224	32
13	36	83	108	130	103	356	177	301	174	91	83	51
14	38	88	186	140	107	270	162	306	170	82	101	39
15	35	78	276	130	103	243	157	312	154	83	98	39
16	39	78	186	120	118	234	180	393	141	92	62	35
17	40	78	150	110	120	222	1980	562	132	103	59	35
18	44	80	130	155	114	240	5360	530	132	92	46	34
19	46	78	170	140	107	225	1640	372	143	150	32	40
20	44	122	160	120	103	201	1700	290	139	101	32	48
21	46	120	130	140	534	180	7340	260	128	98	31	50
22	48	105	140	130	350	159	3230	240	105	697	33	55
23	51	94	135	135	210	152	1340	3700	105	645	39	42
24	57	80	135	135	366	141	6230	2910	156	573	39	33
25	50	56	130	100	517	139	6100	994	343	172	31	70
26	52	58	120	70	486	147	2260	653	186	103	31	89
27	54	80	125	112	374	147	1310	526	158	100	30	116
28	53	100	125	116	294	147	1140	458	1030	109	28	79
29	53	210	110	130	234	150	1050	428	3390	199	31	56
30	51	807	100	114	---	189	814	537	495	192	30	39
31	51	---	105	100	---	488	---	409	---	126	30	---
TOTAL	1503	3585	5205	3258	5331	8720	45797	19631	10381	9589	2000	1300
MEAN	48.5	120	168	105	184	281	1527	633	346	309	64.5	43.3
MAX	74	807	750	155	534	778	7340	3700	3390	3160	226	116
MIN	35	56	100	50	70	139	134	240	105	82	28	27
AC-FT	2980	7110	10320	6460	10570	17300	90840	38940	20590	19020	3970	2580
CAL YR 1975	TOTAL	106578	MEAN 292	MAX 5000	MIN 30	AC-FT 211400						
WTR YR 1976	TOTAL	116300	MEAN 318	MAX 7340	MIN 27	AC-FT 230700						

BIG NEMAHA RIVER BASIN

06815000 BIG NEMAHA RIVER AT FALLS CITY, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951, 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
OCT											
16...	1430	40	761	8.3	16.0	5	17.0	2.9	967	256	37
NOV											
04...	1630	143	711	7.8	15.5	40	9.9	4.0	4330	2200	29
DEC											
16...	1630	174	533	7.6	.5	350	14.5	--	35300	92500	23
JAN											
06...	1700	73	877	7.8	.5	6	18.5	3.6	4000	660	34
FEB											
17...	1510	118	599	7.5	10.0	75	13.4	4.1	2370	2040	22
MAR											
09...	1700	500	513	7.6	8.0	180	10.6	4.0	11700	6800	15
APR											
19...	1715	1250	407	7.6	15.0	1200	10.8	7.2	53000	7800	11
MAY											
12...	1730	304	649	8.0	18.5	25	6.8	5.4	16000	720	16
JUN											
01...	1630	380	616	6.9	20.0	100	8.1	6.2	4200	1100	13
JUL											
13...	1600	88	612	8.2	28.0	15	--	8.8	500	50	24
AUG											
02...	1515	90	618	8.2	28.0	4	9.1	7.0	6670	180	24
SEP											
14...	1630	38	730	8.5	29.5	15	12.1	5.6	2600	240	41

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	DISSOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DISSOLVED PHOSPHORUS (P) (MG/L) (00666)
OCT										
16...	467	.64	50.4	.16	.18	.82	1.0	1.2	.29	.24
NOV										
04...	390	.53	151	.35	.21	1.8	2.0	2.4	.32	.22
DEC										
16...	--	.41	141	1.8	.23	2.1	2.3	4.1	.37	.20
JAN										
06...	586	.80	116	.07	.24	1.2	1.4	1.5	.31	.28
FEB										
17...	368	.50	117	1.0	.18	1.5	1.7	2.7	.37	.13
MAR										
09...	--	.39	392	2.6	.53	2.7	3.2	5.8	.68	.18
APR										
19...	251	.34	847	2.4	.13	9.9	10	12	1.4	.13
MAY										
12...	414	.56	340	1.4	.09	.84	.93	2.3	.30	.15
JUN										
01...	--	.48	364	1.9	.10	1.0	1.1	3.0	.46	.20
JUL										
13...	399	.54	95.1	.07	.08	.91	.99	1.1	.22	.19
AUG										
02...	394	.54	95.7	.44	.06	2.6	2.7	3.1	.34	.18
SEP										
14...	--	.60	45.5	.24	.08	1.0	1.1	1.3	.31	.18

BIG NEMAHA RIVER BASIN

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06815000 BIG NEMAHA RIVER AT FALLS CITY, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HC03) (MG/L) (00440)
DEC 16...	1630	45	210	38	62	14	24	.7	6.5	213
MAR 09...	1700	30	210	27	61	14	23	.7	5.4	223
JUN 01...	1630	7	250	18	69	20	25	.7	4.5	289
SEP 14...	1630	7	270	64	73	21	50	1.3	4.9	221

DATE	CAR- BONATE (C03) (MG/L) (00445)	ALKA- LINITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (MG/L) (01000)	DIS- SOLVED BORON (B) (MG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (MG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (MG/L) (01030)
DEC 16...	0	175	57	.3	9.4	301	--	60	--	--
MAR 09...	0	183	51	.3	10	290	1	60	1	0
JUN 01...	0	237	68	.3	13	355	--	80	--	--
SEP 14...	14	205	120	.3	9.8	443	6	110	1	0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
DEC 16...	--	90	--	30	--	--	--	--	--	--
MAR 09...	6	10	5	30	.0	.0	.0	2	0	0
JUN 01...	--	20	--	30	--	--	--	--	--	--
SEP 14...	5	20	1	100	.0	.0	.0	1	0	10

KANSAS RIVER BASIN

06821500 ARIKAREE RIVER AT HAIGLER, NE

LOCATION.--Lat 40°01'45", long 101°58'10", in NE1/4NE1/4 sec.29, T.1 N., R.41 W., Dundy County, Hydrologic Unit 10250001, on left bank 57 ft (17 m) downstream from bridge on U.S. Highway 34, 1.3 mi (2.1 km) upstream from Furlington Northern Inc. bridge, 1.8 mi (2.9 km) upstream from confluence with North Fork Republican River, 2 mi (3 km) northwest of Haigler, and 3.2 mi (5.1 km) downstream from Kansas-Nebraska State line.

DRAINAGE AREA.--1,640 mi² (4,250 km²), approximately, of which about 980 mi² (2,540 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSE 1310.

REVISED RECORDS.--WSP 1919: 1951, 1954, 1956, 1960. WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,250.98 ft (990.899 m) above mean sea level. See WSP 1919 for history of changes prior to Sept. 29, 1964.

REMARKS.--Records good. Natural flow affected by ground-water withdrawals and diversions for irrigation of about 1,500 acres (6.07 km²) in Colorado and by return flow from Pioneer Canal.

AVERAGE DISCHARGE.--45 years, 24.6 ft³/s (0.697 m³/s), 17,820 acre-ft/yr (22.0 hm³/yr); median of yearly mean discharges, 21 ft³/s (0.595 m³/s), 15,200 acre-ft/yr (18.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,000 ft³/s (1,420 m³/s) May 31, 1935, gage height, 11.2 ft (3.41 m), site and datum then in use, from floodmarks, from rating curve extended above 3,800 ft³/s (108 m³/s) on basis of slope-area measurement of peak flow; no flow for some periods in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 153 ft³/s (4.33 m³/s) May 21, gage height, 4.59 ft (1.399 m), no peak above base 800 ft³/s (22.7 m³/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	13	2.8	2.4	9.1	10	9.2	29	8.6	2.9	.02	0
2	1.0	13	3.0	2.4	8.6	10	9.9	26	16	1.1	.02	0
3	1.0	14	3.7	2.0	7.0	8.8	8.8	21	16	2.1	.02	0
4	1.2	13	3.9	1.0	5.4	6.3	8.5	19	13	5.4	.02	0
5	1.4	7.3	3.3	1.5	3.1	5.0	8.3	16	12	2.3	.09	0
6	1.7	9.0	2.9	1.5	2.2	5.3	8.5	15	12	7.9	.14	0
7	2.4	8.6	2.4	2.0	1.9	8.8	8.0	16	14	5.9	.12	0
8	3.5	8.5	2.4	2.5	2.2	22	8.3	17	12	7.3	.03	0
9	4.2	7.7	2.4	3.0	9.0	20	10	16	10	1.4	.02	0
10	4.7	9.9	2.5	3.5	12	17	11	14	3.3	.23	.01	0
11	7.8	11	2.5	4.0	9.0	15	9.0	9.0	1.5	.12	0	0
12	6.8	13	2.5	4.8	7.6	13	8.3	9.7	.43	.11	0	0
13	6.1	13	2.5	4.4	7.1	9.3	8.1	3.4	.52	.16	0	0
14	6.8	12	2.4	3.7	6.9	13	8.0	2.6	.27	1.0	.01	0
15	10	15	2.3	3.3	7.0	14	7.5	1.6	.32	.70	.01	0
16	12	14	2.3	3.2	7.4	13	8.3	2.1	.32	.32	0	0
17	9.9	12	2.4	3.1	8.3	13	11	1.5	.25	.10	0	0
18	7.3	13	2.5	3.0	8.2	13	25	1.5	.26	.06	0	.03
19	9.3	16	2.5	3.7	7.3	13	35	1.7	.24	.02	0	.01
20	10	17	2.4	3.5	7.3	11	34	1.1	.26	.10	0	0
21	7.2	10	2.4	3.4	7.4	9.2	30	18	.67	.78	0	.24
22	8.0	5.8	2.4	4.3	5.4	8.9	23	29	.62	.86	0	3.3
23	15	3.9	2.4	5.5	8.3	9.8	21	20	3.7	.15	0	7.5
24	19	2.7	2.4	6.1	17	9.9	20	12	4.9	.05	.01	9.6
25	20	2.1	2.4	5.0	15	9.6	20	11	1.9	.03	.01	9.5
26	18	2.1	2.4	2.7	12	9.0	21	10	.37	.02	.01	9.2
27	18	2.1	2.4	2.1	12	8.5	25	12	.24	.02	0	8.7
28	19	2.2	2.4	2.0	11	8.1	32	20	.22	.02	0	8.1
29	19	2.3	2.4	3.9	11	8.3	34	12	1.0	.19	.01	8.8
30	17	2.5	2.4	8.6	---	7.9	33	23	2.1	.22	0	10
31	15	---	2.4	9.6	---	8.2	---	6.1	---	.07	0	---
TOTAL	283.7	275.7	80.0	111.7	235.7	337.9	503.7	396.3	136.99	41.63	.55	74.98
MEAN	9.15	9.19	2.58	3.60	8.13	10.9	16.8	12.8	4.57	1.34	.018	2.50
MAX	20	17	3.9	9.6	17	22	35	29	16	7.9	.14	10
MIN	1.0	2.1	2.3	1.0	1.9	5.0	7.5	1.1	.22	.02	0	0
AC-FT	563	547	159	222	468	670	999	786	272	83	1.1	149
CAL YR 1975	TOTAL	4234.91	MEAN	11.6	MAX	470	MIN	.50	AC-FT	8400		
WTF YR 1976	TOTAL	2478.85	MEAN	6.77	MAX	35	MIN	0	AC-FT	4920		

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LOCATION.--lat 40°04'10", long 102°03'05", in sec.10, T.1 N., R.42 W., Dundy County, Ne., Hydrologic Unit 10250002, on right bank 100 ft (30 m) east of Colorado-Nebraska State line and 9.5 mi (15.3 km) upstream from confluence with Arikaree River.

PERIOD OF RECORD.--October 1930 to current year. Prior to October 1932, published as North Fork of Arikaree River at Colorado-Nebraska State line. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Steel piling gage since January 1965. Datum of gage is 3,336.09 ft (1,016.840 m) above mean sea level. Prior to Oct. 17, 1934, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--46 years, 48.5 ft³/s (1.374 m³/s), 35,140 acre-ft/yr (43.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,110 ft³/s (59.8 m³/s) Apr. 28, 1947, gage height, 5.92 ft (1.804 m), from rating curve extended above 800 ft³/s (22.7 m³/s) on basis of slope-area measurement of peak flow; no flow Aug. 25, 26, 1932.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 83 ft³/s (2.35 m³/s) Dec. 3, gage height, 1.60 ft (0.488 m); no peak above base of 130 ft³/s (3.68 m³/s); maximum gage height, 2.26 ft (0.689 m) Nov. 22, backwater from ice; minimum daily discharge, 5.4 ft³/s (0.15 m³/s) July 1.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	31	74	60	61	60	51	31	42	5.4	12	6.7
2	14	31	78	58	61	60	52	31	35	6.0	13	6.5
3	13	31	77	55	63	58	51	31	28	9.9	12	8.2
4	11	29	76	55	61	59	51	29	27	12	10	8.1
5	12	20	73	60	56	58	51	15	33	12	9.6	7.6
6	12	18	68	61	59	61	53	14	25	10	9.0	8.8
7	9.8	19	65	58	58	65	53	15	26	8.7	7.6	8.8
8	10	28	66	56	60	67	59	23	24	6.4	7.9	10
9	8.2	28	66	58	63	66	62	24	22	6.4	7.9	10
10	9.3	27	67	60	65	64	53	24	11	6.4	10	11
11	8.6	27	66	64	62	64	51	21	9.5	6.8	8.6	10
12	10	21	64	68	61	59	51	12	10	8.6	7.1	9.9
13	12	34	64	67	60	57	49	12	9.5	7.3	7.3	7.2
14	13	30	62	64	63	60	49	12	9.5	7.9	7.7	7.7
15	13	29	60	64	66	61	41	12	9.2	7.4	8.8	7.6
16	17	30	59	67	62	60	35	11	9.3	6.0	7.8	12
17	25	28	60	71	61	61	20	11	8.4	7.0	7.8	14
18	26	26	60	71	60	59	24	8.7	8.9	7.0	9.2	8.4
19	31	23	60	68	58	58	27	6.6	7.7	6.8	7.8	8.3
20	29	45	62	65	61	57	24	6.9	9.6	9.8	7.2	8.6
21	27	55	62	65	56	55	21	8.5	8.3	11	7.1	7.9
22	22	70	64	66	65	58	21	42	8.9	9.6	6.8	8.1
23	17	70	65	66	66	58	13	53	14	9.9	8.0	8.1
24	17	66	64	66	66	57	15	53	11	9.9	8.2	8.1
25	21	60	65	66	65	59	15	54	12	8.5	9.6	8.7
26	28	60	66	65	61	55	17	48	11	10	9.0	10
27	20	62	66	64	61	53	15	23	9.3	10	9.7	16
28	20	62	66	62	60	51	20	24	10	8.9	11	17
29	16	64	66	62	61	50	31	28	13	9.6	8.5	18
30	22	66	66	61	---	50	31	51	6.3	9.0	7.0	19
31	31	---	67	61	---	51	---	54	---	11	7.0	---
TOTAL	538.9	1190	2044	1954	1782	1811	1106	788.7	468.4	265.2	270.2	300.3
MEAN	17.4	39.7	65.9	63.0	61.4	58.4	36.9	25.4	15.6	8.55	8.72	10.0
MAX	31	70	78	71	66	67	62	54	42	12	13	19
MIN	8.2	18	59	55	56	50	13	6.6	6.3	5.4	6.8	6.5
AC-FT	1070	2360	4050	3880	3530	3590	2190	1560	929	526	536	596
CAI YR 1975	TOTAL	14359.7	MEAN 39.3	MAX 188	MIN 5.4	AC-FT 28480						
WTR YR 1976	TOTAL	12518.7	MEAN 34.2	MAX 78	MIN 5.4	AC-FT 24830						

KANSAS RIVER BASIN

06823500 BUFFALO CREEK NEAR HAIGLER, NE

LOCATION.--Lat 40°02'45", long 101°52'15", in NW1/4NW1/4 sec.20, T.1 N., R.40 W., Dundy County, Hydrologic Unit 10250002, on right bank 90 ft (27 m) downstream from county highway bridge, 0.8 mi (1.3 km) upstream from mouth, and 4 mi (6 km) northeast of Haigler.

DRAINAGE AREA.--260 mi² (670 km²), approximately, of which about 13 mi² (34 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 2119: 1948-50(M), 1957(M), drainage area.

GAGE.--Water-stage recorder. Concrete control since June 1954. Datum of gage is 3,204.57 ft (976.753 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by diversion about 0.5 mi (0.8 km) upstream for irrigation of 880 acres (3.56 km²).

AVERAGE DISCHARGE.--36 years, 7.82 ft³/s (0.221 m³/s), 5,670 acre-ft/yr (6.99 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 140 ft³/s (3.96 m³/s) June 27, 1948, gage height, 4.37 ft (1.332 m); maximum gage height, 5.93 ft (1.807 m) Jan. 3, 1976, backwater from ice; no flow at times in 1955, 1968, 1973-76.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 20 ft³/s (0.57 m³/s) Jan. 3 at 1130, gage height, 5.93 ft (1.807 m), backwater from ice; no other peak above base of 20 ft³/s (0.57 m³/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	6.5	7.6	1.6	10	9.2	8.0	9.2	1.9	.33	0	0
2	.54	6.6	8.0	.50	10	9.0	8.2	9.0	1.7	.40	0	0
3	.14	6.6	9.0	15	10	8.4	8.6	8.8	1.6	.47	0	.01
4	0	6.6	10	10	9.3	8.0	8.4	8.9	1.5	4.6	0	.23
5	0	6.7	9.6	9.6	8.6	8.0	8.3	8.9	1.3	.30	0	.19
6	0	6.7	9.0	9.6	8.8	8.4	8.3	8.8	1.2	.25	0	.10
7	0	6.5	8.6	8.8	9.2	8.8	8.4	8.8	1.1	.23	0	.05
8	0	6.4	8.2	8.8	9.6	9.3	10	8.8	1.0	.22	0	.01
9	0	6.5	8.0	9.0	9.9	9.1	9.8	7.1	.93	.16	0	0
10	0	6.5	8.0	9.4	9.4	8.9	9.0	6.0	.84	.09	0	0
11	0	6.4	8.0	9.4	9.0	8.8	8.7	5.0	.70	.06	0	0
12	0	6.4	7.6	9.0	8.9	7.5	8.8	4.8	.64	.02	0	0
13	2.2	6.6	7.4	10	8.9	7.8	8.8	4.8	.60	.03	0	.02
14	4.6	6.7	7.0	10	8.7	8.5	8.8	4.8	.40	.03	0	.01
15	4.1	7.0	7.4	12	8.7	8.6	8.8	4.8	.03	0	0	.02
16	4.0	6.7	7.0	13	9.0	8.7	9.2	4.8	0	0	0	.14
17	4.0	6.6	6.6	11	8.9	8.6	9.3	4.8	0	0	0	.02
18	3.9	6.5	6.6	10	9.6	8.6	10	4.8	0	0	0	0
19	3.8	1.5	7.0	9.8	9.7	8.5	10	3.0	0	0	0	0
20	3.7	.05	7.4	9.8	7.4	8.0	9.3	.19	0	.01	0	0
21	3.7	3.0	8.0	11	7.0	8.4	8.9	.14	0	0	0	0
22	3.8	12	8.7	11	8.5	8.4	8.6	.26	0	0	0	0
23	5.1	9.6	9.4	11	10	8.5	8.3	1.9	0	0	0	0
24	7.0	7.8	11	10	9.3	8.3	7.9	9.1	0	0	.02	0
25	6.8	7.0	11	9.4	8.9	8.3	8.0	8.9	0	0	.01	0
26	6.7	7.0	11	9.0	8.9	7.9	8.2	8.5	0	0	0	.27
27	6.6	7.2	11	10	8.7	8.0	9.3	8.5	0	0	0	4.8
28	6.5	7.2	11	11	8.9	7.3	10	6.0	0	0	0	5.9
29	6.6	7.2	11	11	8.8	6.9	10	2.4	0	0	0	9.3
30	6.6	7.4	11	11	---	7.7	9.9	2.2	0	0	0	8.9
31	6.6	---	11	10	---	8.1	---	2.0	---	0	0	---
TOTAL	102.18	195.45	272.1	300.70	262.6	258.5	267.8	175.99	15.44	7.20	.03	29.97
MEAN	3.30	6.52	8.78	9.70	9.06	8.34	8.93	5.68	.51	.23	.001	1.00
MAX	7.0	12	11	15	10	9.3	10	9.2	1.9	4.6	.02	9.3
MIN	0	.05	6.6	.50	7.0	6.9	7.9	.14	0	0	0	0
AC-FT	203	388	540	596	521	513	531	349	31	14	.06	59
CAL YR 1975	TOTAL	2140.67	MEAN	5.86	MAX	14	MIN	0	AC-FT	4250		
WTR YR 1976	TOTAL	1887.96	MEAN	5.16	MAX	15	MIN	0	AC-FT	3740		

KANSAS RIVER BASIN

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06824000 ROCK CREEK AT PARKS, NE

LOCATION.--Lat 40°02'30", long 101°43'40", in SW1/4NE1/4 sec.21, T.1 N., R.39 W., Dundy County, Hydrologic Unit 10250002, on right bank at west edge of Parks, 100 ft (30 m) downstream from county road bridge and 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--20 mi² (52 km²), approximately, of which about 17 mi² (44 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 1630: 1951(M). WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,093.35 ft (942.853 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are poor. One diversion about 2 mi (3 km) above station for irrigation of 215 acres (870,000 m²); flow regulated at times by reservoir at State fish hatchery 7 mi (11 km) upstream.

AVERAGE DISCHARGE.--36 years, 14.2 ft³/s (0.402 m³/s), 10,290 acre-ft/yr (12.7 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 493 ft³/s (14.0 m³/s) July 5, 1965, gage height, 6.00 ft (1.829 m), from rating curve extended above 40 ft³/s (1.13 m³/s) on basis of slope-conveyance study; minimum daily, 2.6 ft³/s (0.074 m³/s) Nov. 19, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 25 ft³/s (0.71 m³/s) Nov. 20, gage height, 3.34 ft (1.018 m), backwater from ice; no other peak above base of 25 ft³/s (0.71 m³/s); minimum daily, 2.6 ft³/s (0.074 m³/s) Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	11	13	12	14	12	12	14	13	10	9.4	9.0
2	13	11	14	11	14	13	12	14	12	10	9.5	8.9
3	13	10	14	10	14	12	13	14	12	12	9.8	8.9
4	12	9.9	15	12	13	12	12	13	11	12	10	9.3
5	12	9.4	15	14	10	10	13	13	11	12	10	9.3
6	11	8.8	15	13	10	11	13	13	11	11	10	9.4
7	12	8.6	15	10	11	13	13	13	11	11	9.8	9.7
8	12	8.3	15	10	13	14	15	13	11	11	9.4	10
9	11	9.0	16	13	14	13	15	13	11	11	9.3	10
10	11	10	16	15	14	13	15	13	11	11	9.3	9.6
11	12	11	15	17	14	13	15	12	11	10	9.5	9.7
12	12	12	15	16	13	13	15	12	11	10	10	9.8
13	12	13	15	16	13	12	14	13	11	10	10	10
14	12	14	14	15	13	11	14	12	10	11	12	10
15	13	15	13	14	13	9.9	13	13	11	11	11	11
16	13	15	13	15	13	9.7	13	13	11	11	10	12
17	13	11	12	16	13	9.9	13	13	10	11	10	12
18	13	6.2	13	16	13	12	13	12	11	11	9.8	12
19	13	2.6	14	16	13	12	14	12	10	11	9.6	12
20	13	3.0	14	16	13	12	13	11	11	11	9.7	11
21	14	20	15	15	12	12	13	12	11	11	9.8	12
22	14	18	15	15	12	13	13	14	11	11	9.8	13
23	13	17	14	15	14	13	13	15	16	11	9.7	13
24	13	17	14	15	13	13	13	15	13	11	9.5	12
25	13	15	14	15	12	12	13	14	12	10	9.4	12
26	13	12	14	14	13	12	13	14	12	10	9.3	13
27	12	12	14	14	13	12	13	13	11	9.8	9.2	13
28	12	12	15	15	12	12	14	13	11	9.8	8.9	13
29	11	12	15	15	12	12	15	13	11	9.5	8.6	13
30	10	13	14	15	---	12	15	14	11	9.6	8.4	13
31	11	---	14	15	---	12	---	14	---	9.5	8.6	---
TOTAL	383	346.8	444	440	371	372.5	405	407	340	330.2	299.3	330.6
MEAN	12.4	11.6	14.3	14.2	12.8	12.0	13.5	13.1	11.3	10.7	9.65	11.0
MAX	14	20	16	17	14	14	15	15	16	12	12	13
MIN	10	2.6	12	10	10	9.7	12	11	10	9.5	8.4	8.9
AC-FT	760	688	881	873	736	739	803	807	674	655	594	656
CAL YR 1975	TOTAL	4735.2	MEAN	13.0	MAX	20	MIN	2.6	AC-FT	9390		
WTR YR 1976	TOTAL	4469.4	MEAN	12.2	MAX	20	MIN	2.6	AC-FT	8870		

KANSAS RIVER BASIN

06824500 REPUBLICAN RIVER AT BENKELMAN, NE

LOCATION.--Lat 40°01'55", long 101°32'30", in SE1/4SW1/4 sec. 19, T.1 N., R.37 W., Dundy County, Hydrologic Unit 10250002, on right bank 150 ft (46 m) downstream from bridge on U.S. Highway 34, 0.6 mi (1.0 km) south of Burlington Northern Inc. track, 1 mi (2 km) southwest of Benkelman, 2 mi (3 km) upstream from South Fork Republican River, and 11 mi (18 km) downstream from Rock Creek.

DRAINAGE AREA.--4,830 mi² (12,500 km²), approximately, of which about 1,230 mi² (3,190 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1894 to September 1895 (published as North Fork Republican River at Benkelman), October 1902 to November 1906, October 1946 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1895. WSP 1919: 1952, 1956. WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,975.34 ft (906.884 m) above mean sea level. Prior to Dec. 17, 1946, nonrecording gages at several sites within 1.5 mi (2.4 km) of present site at various datums; Dec. 17, 1946, to May 26, 1972, water-stage recorder at site 150 ft (46 m) upstream at same datum.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation developments above station.

AVERAGE DISCHARGE.--35 years, 90.4 ft³/s (2.560 m³/s), 65,490 acre-ft/yr (80.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,040 ft³/s (171 m³/s) Sept. 7, 1951, gage height, 7.58 ft (2.310 m); maximum gage height, 7.80 ft (2.377 m) Aug. 9, 1950; no flow at times in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1826, 13.1 ft (3.99 m) May 31, 1935, from elevations furnished by State Highway Department.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 154 ft³/s (4.36 m³/s) Mar. 8, gage height, 2.98 ft (0.908 m); no peak above base of 550 ft³/s (15.6 m³/s); maximum gage height, 4.36 ft (1.329 m) Mar. 6, ice jam; no flow July 30 to Aug. 1, Aug. 8-11, Aug. 21 to Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	48	55	90	120	99	82	92	74	2.8	0	0
2	10	48	65	75	118	104	80	87	69	3.4	.88	0
3	9.5	50	80	60	95	96	77	85	64	16	2.7	0
4	9.0	53	90	60	75	90	75	77	56	27	1.8	0
5	8.7	51	90	75	20	80	74	75	50	16	.79	0
6	8.1	43	94	70	60	88	78	52	54	13	.19	0
7	9.0	42	96	50	80	95	80	45	47	10	.03	0
8	8.9	43	100	50	100	124	105	47	45	8.3	0	0
9	8.8	52	105	60	115	116	101	44	42	6.8	0	0
10	9.4	51	105	62	110	104	99	45	40	6.8	0	0
11	9.5	56	100	65	98	102	86	48	27	5.7	0	0
12	9.9	57	90	68	93	95	92	48	19	2.5	5.1	0
13	9.8	56	90	70	93	87	91	43	15	2.0	5.5	1.1
14	9.7	60	85	72	100	91	85	31	12	26	15	2.9
15	12	59	85	76	105	99	79	25	9.8	8.5	8.6	10
16	15	59	80	78	105	90	78	26	9.9	5.9	6.7	11
17	16	56	70	80	123	88	77	26	9.8	4.8	4.0	10
18	19	51	74	85	143	92	84	23	10	3.5	2.5	9.3
19	23	40	78	90	139	95	100	20	11	2.4	1.3	7.6
20	30	8.0	80	95	139	89	91	18	8.5	4.3	.63	7.1
21	34	20	82	98	87	84	80	19	5.6	6.8	0	6.5
22	34	40	84	105	112	82	72	52	4.1	7.1	0	6.3
23	36	48	86	105	118	85	66	100	23	7.6	0	6.6
24	37	45	88	100	130	89	63	101	18	9.7	0	6.8
25	39	42	92	90	120	87	60	88	12	7.6	0	7.8
26	41	40	92	78	116	87	61	81	8.5	5.3	0	8.6
27	44	40	94	85	111	84	73	72	7.0	4.3	0	8.2
28	46	45	96	90	111	80	83	55	8.0	1.7	0	7.7
29	47	48	96	100	105	78	90	50	5.5	.11	0	7.3
30	45	48	100	105	---	76	98	63	3.4	0	0	8.5
31	44	---	100	110	---	80	---	82	---	0	0	---
TOTAL	692.1	1399.0	2722	2497	3041	2836	2460	1720	768.1	225.91	55.72	133.3
MEAN	22.3	46.6	87.8	80.5	105	91.5	82.0	55.5	25.6	7.29	1.80	4.44
MAX	47	60	105	110	143	124	105	101	74	27	15	11
MIN	8.1	8.0	55	50	20	76	60	18	3.4	0	0	0
AC-FT	1370	2770	5400	4950	6030	5630	4880	3410	1520	448	111	264
CAI YR 1975	TOTAL	23847.16	MEAN	65.3	MAX	325	MIN	0	AC-FT	47300		
WTF YR 1976	TOTAL	18550.13	MEAN	50.7	MAX	143	MIN	0	AC-FT	36790		

06827500 SOUTH FORK REPUBLICAN RIVER NEAR BENKELMAN, NE

LOCATION.--Lat 40°00'34", long 101°32'32", in NE1/4SW1/4 sec.31, T.1 N., R.37 W., Dundy County, Hydrologic Unit 10250003, on right bank 100 ft (30 m) upstream from bridge on State Highway 61, 1 mi (2 km) downstream from Kansas-Nebraska State line, 2.5 mi (4.0 km) southwest of Benkelman, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--2,740 mi² (7,100 km²), approximately, of which about 2,190 mi² (5,670 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1894 to September 1895, October 1902 to November 1906, October 1930 to September 1932, August 1937 to current year. Published as South Fork of Republican River at Benkelman prior to 1906 and as Republican River at Benkelman 1931-32. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1904-6, 1931. WSP 1390: 1940, 1945, 1947. WSP 1919: 1951-52, 1954-56. WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,990.91 ft (911.629 m) above mean sea level. Prior to Dec. 10, 1947, nonrecording gages at several sites within 3.5 mi (5.6 km) of present site at various datums. Dec. 10, 1947, to Sept. 28, 1966, water-stage recorder 130 ft (40 m) downstream at datum 2.00 ft (0.610 m) higher, and Sept. 29, 1966, to Mar. 7, 1968, at present site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow affected by irrigation development above station, and since July 6, 1950, by storage in Bonny Reservoir.

AVERAGE DISCHARGE.--46 years, 54.4 ft³/s (1.541 m³/s), 39,410 acre-ft/yr (48.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 19,600 ft³/s (555 m³/s) Aug. 16, 1958, gage height, 8.70 ft (2.652 m), site and datum then in use, but may have been higher during flood of June 24, 1945; no flow at times in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1923, 10.1 ft (3.08 m) May 31, 1935, from floodmarks at site 0.2 mile downstream, at datum 2.00 ft (0.610 m) higher, discharge, 150,000 ft³/s (4,250 m³/s), by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 181 ft³/s (5.13 m³/s) Feb. 23, gage height, 3.68 ft (1.122 m); maximum gage height, 3.85 ft (1.173 m) Mar. 7, backwater from ice; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	8.2	37	41	24	24	10	0		
2			0	3.4	32	41	23	22	7.5	0		
3			0	.40	28	30	21	20	4.8	.02		
4			0	.38	24	25	21	21	2.8	0		
5			0	.42	18	20	20	20	1.8	0		
6			0	.40	20	28	19	19	2.6	0		
7			0	.40	23	45	18	20	2.9	0		
8			15	.40	27	59	24	18	1.4	0		
9			27	.60	30	41	23	16	.43	0		
10			26	1.0	30	38	20	16	.07	0		
11			24	5.0	26	36	17	15	0	0		
12			24	8.5	25	25	18	16	0	0		
13			21	12	24	28	18	15	0	0		
14			15	16	23	40	15	14	0	0		
15			9.0	20	22	33	15	18	0	0		
16			5.4	25	21	32	18	13	0	0		
17			5.0	35	19	31	19	13	0	0		
18			7.6	45	22	33	21	14	0	0		
19			10	43	21	35	21	11	0	0		
20			12	41	27	33	24	7.9	0	0		
21			13	40	35	29	22	10	0	0		
22			14	40	65	27	19	33	0	0		
23			14	35	136	29	18	71	0	0		
24			16	30	102	27	17	36	0	0		
25			16	22	94	29	17	28	0	0		
26			15	16	69	28	20	23	0	0		
27			14	18	56	26	21	20	0	0		
28			13	24	49	25	24	17	0	0		
29			11	28	42	25	26	15	0	0		
30			10	30	---	26	25	12	0	0		
31		---	10	35	---	25	---	10	---	0		---
TOTAL	0	0	347.0	584.10	1147	990	608	607.9	34.30	.02	0	0
MEAN	0	0	11.2	18.8	39.6	31.9	20.3	19.6	1.14	.0006	0	0
MAX	0	0	27	45	136	59	26	71	10	.02	0	0
MIN	0	0	0	.38	18	20	15	7.9	0	0	0	0
AC-FT	0	0	688	1160	2280	1960	1210	1210	68	.04	0	0
CA1 YR 1975	TOTAL	15350.10	MEAN	42.1	MAX	2980	MIN	0	AC-FT	30450		
WTF YR 1976	TOTAL	4318.32	MEAN	11.8	MAX	136	MIN	0	AC-FT	8570		

KANSAS RIVER BASIN

06828500 REPUBLICAN RIVER AT STRATTON, NE

LOCATION.--Lat 40°08'28", long 101°13'42", in SW1/4NW1/4 sec.13, T.2 N., R.35 W., Hitchcock County, Hydrologic Unit 10250004, on right bank at downstream side of county bridge, 0.5 mi (0.8 km) south of Stratton, 0.2 mi (0.3 km) downstream from Muddy Creek, 10 mi (16 km) upstream from Trenton Dam, and 19 mi (31 km) downstream from South Fork Republican River.

DRAINAGE AREA.--8,450 mi² (21,900 km²), approximately, of which about 3,800 mi² (9,840 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--July 1950 to current year.

REVISED RECORDS.--WSP 2119: Drainage area. WDR NE-73: 1968-71(M), 1972.

GAGE.--Water-stage recorder. Datum of gage is 2,775.49 ft (845.969 m) above mean sea level. Prior to Aug. 1, 1967, at site 0.3 mi (0.5 km) downstream at present datum.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation development above station and by storage in Bonny Reservoir (station 06826000).

AVERAGE DISCHARGE.--26 years, 138 ft³/s (3.908 m³/s), 99,980 acre-ft/yr (0.123 km³/yr); median of yearly mean discharges, 119 ft³/s (3.370 m³/s), 86,200 acre-ft/yr (0.106 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,800 ft³/s (759 m³/s) July 31, 1962, gage height, 9.34 ft (2.847 m), site then in use; no flow at times in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since at least 1826 occurred May 31, 1935, discharge, about 200,000 ft³/s (5,660 m³/s), based on slope-area measurement at Max.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,240 ft³/s (35.1 m³/s) June 23, gage height, 7.74 ft (2.359 m), from floodmark; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	24	65	95	140	145	129	130	78	1.1		
2	0	31	80	70	135	143	132	117	67	1.5		
3	0	37	95	56	130	146	126	110	56	2.6		
4	0	40	100	60	105	148	123	108	54	2.4		
5	0	43	100	65	65	140	125	103	44	40		
6	0	43	110	60	78	155	132	81	41	15		
7	0	42	120	54	100	180	139	65	45	3.2		
8	0	41	130	56	130	208	202	60	40	.87		
9	0	51	140	60	150	192	197	60	35	.43		
10	0	62	140	68	170	171	168	66	30	.24		
11	0	63	120	80	157	169	143	62	28	.04		
12	0	69	100	90	144	179	130	64	18	.02		
13	0	74	100	100	137	148	135	50	10	0		
14	0	80	100	120	137	149	133	45	.60	192		
15	0	83	100	120	143	157	132	38	0	18		
16	0	84	86	130	144	143	141	33	.20	3.3		
17	0	84	76	150	140	142	130	32	.01	1.1		
18	0	82	78	160	136	146	132	28	0	.34		
19	0	60	82	160	129	143	135	25	0	0		
20	0	32	90	170	132	134	166	19	.06	0		
21	0	13	92	180	110	131	137	44	.01	0		
22	0	5.0	92	190	130	136	121	205	0	0		
23	0	6.4	92	200	180	152	110	138	233	0		
24	0	7.6	94	180	207	151	103	142	19	0		
25	0	10	94	140	207	145	93	122	7.4	0		
26	0	15	96	110	191	148	90	112	.34	0		
27	0	25	96	115	164	142	102	101	.16	0		
28	5.0	30	98	130	152	134	122	84	.60	0		
29	15	40	98	150	148	135	134	68	.12	0		
30	19	50	98	150	---	133	138	63	.16	0		
31	21	---	100	140	---	129	---	73	---	0		---
TOTAL	60.0	1327.0	3062	3609	4091	4674	4000	2448	807.66	282.14	0	0
MEAN	1.94	44.2	98.8	116	141	151	133	79.0	26.9	9.10	0	0
MAX	21	84	140	200	207	208	202	205	233	192	0	0
MIN	0	5.0	65	54	65	129	90	19	0	0	0	0
AC-FT	119	2630	6070	7160	8110	9270	7930	4860	1600	560	0	0

CAL YR 1975 TOTAL 42464.98 MEAN 116 MAX 1860 MIN 0 AC-FT 84230
WTR YR 1976 TOTAL 24360.80 MEAN 66.6 MAX 233 MIN 0 AC-FT 48320

06829000 SWANSON LAKE NEAR TRENTON, NE

LOCATION.--Lat 40°10'10", long 101°03'35", in SE1/4NE1/4 sec.5, T.2 N., R.33 W., Hitchcock County, Hydrologic Unit 10250004, in gate-control house at right end of spillway on downstream side of Trenton Dam on Republican River, 2.5 mi (4.0 km) west of Trenton.

DRAINAGE AREA.--8,620 mi² (22,300 km²), approximately, of which about 3,940 mi² (10,200 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--May 1953 to current year.

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Gage is referred to mean sea level. Prior to Nov. 13, 1953, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by earthfill dam; storage began May 4, 1953. Capacity, 116,100 acre-ft (0.143 km³) between elevations 2,710.0 ft (826 m), sill of outlet gates, and 2,752.0 ft (839 m), top of storage pool. Top of flood-control pool is at elevation 2,773.0 ft (845 m), capacity, 254,000 acre-ft (0.313 km³). Top of superstorage flood-control pool at elevation 2,785.0 ft (849 m), capacity, 361,600 acre-ft (0.446 km³). Dead storage, 4,100 acre-ft (5.06 hm³). Figures given herein represent total contents. Water used for irrigation in Frenchman-Cambridge irrigation project.

COCPEATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 148,900 acre-ft (0.184 km³) Aug. 2, 3, 1962, elevation, 2,757.42 ft (840.462 m); minimum since operation of reservoir began, 19,950 acre-ft (24.6 hm³) Oct. 24, 1954, elevation, 2,722.61 ft (829.852 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 97,520 acre-ft (0.120 km³) May 30 to June 1, elevation, 2,747.19 ft (837.344 m); minimum contents, 26,840 acre-ft (33.1 hm³) Sept. 14, elevation, 2,726.06 ft (830.903 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

2,725	24,600	2,740	67,730
2,730	36,050	2,745	87,930
2,735	50,280	2,750	110,500

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62390	61130	62100	67840	74210	82040	88960	94890	97520	89950	58760	29860
2	62390	61170	62240	67880	74490	82330	89090	94940	97480	89220	57930	29270
3	62350	61130	62280	67920	74730	82450	89220	95070	97480	88570	57170	28910
4	62320	61130	62420	68000	74930	82740	89350	95250	97340	87890	56310	28710
5	62280	61100	62610	68070	75040	82830	89610	95290	97250	87160	55530	28530
6	62240	61100	62750	68150	75120	82910	89690	95340	97120	86480	54990	28360
7	62170	61100	62970	68230	75200	83280	90120	95380	97030	85670	53850	28130
8	62030	61020	63120	68380	75480	83740	90600	95470	96850	84830	53060	27870
9	61960	61130	63300	68460	75920	84160	90950	95560	96760	83830	52220	27600
10	61920	61100	63520	68530	76400	84460	91120	95690	96630	82990	51280	27390
11	61920	61130	63770	68610	76730	84960	91300	95780	96360	82160	50310	27150
12	61880	60990	64030	68800	77050	85040	91470	95920	96090	81130	49370	27020
13	61880	60990	64320	68880	77290	85300	91730	95780	95780	79930	48530	26930
14	61810	61060	64470	68990	77610	85380	91860	95870	95780	78990	47630	26950
15	61740	61100	64660	69220	77850	85800	92080	95870	95030	77850	46780	26970
16	61630	61100	64770	69330	78060	86100	92560	95780	94630	76730	45930	26990
17	61600	61130	64880	69640	78340	86310	92650	95780	94190	75520	45070	27020
18	61560	61200	64990	69870	78670	86570	92690	95740	93700	74450	44190	27040
19	61560	61990	65110	70140	78670	87040	92950	95690	93260	73190	43300	27020
20	61530	61990	65220	70420	78830	87040	93130	95650	92730	72010	42470	26990
21	61490	61920	65370	70800	79070	87080	93260	95650	92210	70770	41540	26970
22	61380	61920	65550	71110	79320	87330	93440	96630	91470	69530	40520	26970
23	61420	61880	65700	71390	79720	87590	93570	96760	92950	68300	39760	26930
24	61420	61850	65890	71740	80140	87670	93700	97160	92950	67020	38600	26950
25	61310	61920	66110	72130	80510	87890	93700	97300	92690	65780	37070	26970
26	61280	61920	66260	72320	80880	88020	93660	97390	92290	64590	35830	26990
27	61200	61920	66530	72480	81210	88270	93880	97390	91990	63550	34650	26970
28	61200	61920	66750	72720	81500	88320	94140	97430	91690	62530	33440	26970
29	61200	61960	67020	73030	81700	88530	94450	97480	91300	61560	32290	26950
30	61200	61990	67240	73380	---	88660	94670	97520	90640	60630	31410	26950
31	61130	---	67470	73820	---	88830	---	97520	---	59680	30640	---
MAX	62390	61990	67470	73820	81700	88830	94670	97520	97520	89950	58760	29860
MIN	61130	60990	62100	67840	74210	82040	88960	94890	90640	59680	30640	26930
†	2738.21	2738.45	2739.93	2741.57	2743.52	2745.21	2746.55	2747.19	2745.63	2737.80	2727.76	2726.11
‡	-1400	+860	+5480	+6350	+7880	+7130	+5840	+2850	-6880	-30960	-29040	-3690

CAL YR 1975 MAX 118300 MIN 60990 ‡ -1600
WTR YR 1976 MAX 97520 MIN 26930 ‡ -35580

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

KANSAS RIVER BASIN

06829500: REPUBLICAN RIVER AT TRENTON, NE

LOCATION.--Lat 40°10'00", long 101°02'40", in SE1/4 sec.4, T.2 N., R.33 W., Hitchcock County, Hydrologic Unit 10250004, on left bank 300 ft (91 m) upstream from Elm Creek, 0.9 mi (1.4 km) downstream from centerline of spillway of Trenton Dam, and 1.5 mi (2.4 km) southwest of Trenton.

DRAINAGE AREA.--8,620 mi² (22,300 km²), approximately, of which about 3,940 mi² (10,200 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.-- WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,671.06 ft (814.139 m) above mean sea level. See WSP 2119 for history of changes prior to Oct. 1, 1959.

REMARKS.--Records fair. Natural flow affected by irrigation development above station, since July 6, 1950, by storage in Bonny Reservoir (station 06826000), since 1953 by storage in Swanson Lake (station 06829000), and since June 1957 by Meeker-Driftwood Canal which diverts directly from Swanson Lake for irrigation of about 16,400 acres (66.4 km²). Periodic water quality measurements are published in tables for water quality at partial-record sites.

AVERAGE DISCHARGE.--30 years, 96.7 ft³/s (2.739 m³/s), 70,060 acre-ft/yr (86.4 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s (476 m³/s) June 16, 1948, gage height, 5.64 ft (1.719 m), former site and datum; no flow at times in 1947-50, 1952-54.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known since about 1826 occurred May 31, 1935, discharge, about 200,000 ft³/s (5,660 m³/s). Discharge of 21,100 ft³/s (598 m³/s) was measured July 3, 1946, gage height, 6.0 ft (1.83 m), former site and datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 374 ft³/s (10.6 m³/s) Aug. 27, 28, gage height, 4.47 ft (1.362 m); minimum daily, 0.63 ft³/s (0.018 m³/s) Nov. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	.94	.80	1.2	.70	.85	1.0	1.9	.99	140	148	148
2	1.6	.94	.94	.95	.70	.85	1.0	1.7	1.1	140	118	103
3	1.1	.94	.94	1.1	.85	.77	1.0	1.7	1.1	144	100	1.7
4	.77	.94	1.0	.90	.77	.76	1.0	1.7	1.1	148	101	1.2
5	.77	.94	.94	.94	.77	.77	1.1	1.7	1.1	147	104	1.1
6	.77	.91	.94	.90	.75	.73	1.1	1.6	1.2	143	103	.94
7	.77	1.0	.94	.80	.81	.77	1.1	1.6	1.2	144	103	.94
8	.77	.81	1.0	.70	.89	.83	1.4	1.4	1.3	144	102	.85
9	.77	.90	1.0	.80	.91	.76	1.3	1.5	1.3	148	100	.85
10	.77	.94	1.0	.94	.90	.70	1.2	1.4	1.3	150	127	.85
11	.85	.94	.99	1.0	.88	.68	1.0	1.3	41	155	144	.85
12	.85	.63	.94	1.0	.94	.90	1.0	1.3	74	173	145	.85
13	.85	.77	.94	1.1	.94	.79	1.3	1.4	78	220	149	.85
14	.85	.85	.86	1.1	.89	.78	1.6	1.3	80	225	151	.98
15	.85	.85	.80	1.0	.94	.77	1.7	1.2	84	223	147	1.1
16	.85	.85	.85	1.1	.92	.80	2.1	1.2	88	219	143	1.0
17	.85	.85	.83	1.1	.88	.78	2.1	1.3	91	220	140	.94
18	.85	.85	.80	1.1	.85	.81	2.1	1.3	97	220	139	.94
19	.94	.80	.79	1.0	.76	.78	1.9	1.3	109	243	140	.94
20	.94	.75	.98	1.0	.78	.85	1.9	1.3	113	258	143	.94
21	.77	.70	1.0	1.0	.89	.77	1.7	1.3	116	259	169	.94
22	.79	.75	1.0	1.1	.81	1.1	1.6	1.5	126	258	193	.94
23	.85	.80	1.0	1.0	.87	1.6	1.7	1.5	160	257	218	.94
24	.85	.85	1.1	1.0	.86	1.2	1.7	1.3	147	257	300	1.1
25	.85	.82	1.0	1.0	.96	1.0	1.6	1.3	138	259	360	1.0
26	.87	.85	1.0	.95	1.1	.94	1.7	1.3	138	258	364	.99
27	.94	.85	1.1	.94	1.3	.94	1.9	1.2	140	179	370	.84
28	.94	.85	1.1	.92	.97	.94	2.1	1.0	138	137	370	.82
29	.94	.85	1.0	.83	.87	.94	1.9	.94	138	140	367	.82
30	.94	.80	1.1	.77	---	1.0	2.1	1.0	138	142	226	.77
31	.94	---	1.1	.71	---	1.0	---	1.0	---	144	148	---
TOTAL	28.35	25.52	29.78	29.95	25.46	27.16	45.9	42.44	2245.69	5894	5632	277.98
MEAN	.91	.85	.96	.97	.88	.88	1.53	1.37	74.9	190	182	9.27
MAX	1.9	1.0	1.1	1.2	1.3	1.6	2.1	1.9	160	259	370	148
MIN	.77	.63	.79	.70	.70	.68	1.0	.94	.99	137	100	.77
AC-FT	56	51	59	59	50	54	91	84	4450	11690	11170	551
CAL YR 1975	TOTAL	6260.18	MEAN	17.2	MAX	226	MIN	.27	AC-FT	12420		
WTR YR 1976	TOTAL	14304.23	MEAN	39.1	MAX	370	MIN	.63	AC-FT	28370		

KANSAS RIVER BASIN

259

06831500 FRENCHMAN CREEK NEAR IMPERIAL, NE

LOCATION.--Lat 40°25'45", long 101°37'25", in SW1/4NW1/4 sec.3, T.5 N., R.38 W., Chase County, Hydrologic Unit 10250005, on right bank 0.2 mi (0.3 km) downstream from bridge on county highway, 5.8 mi (9.3 km) upstream from Enders Dam, and 6.1 mi (9.8 km) south of Imperial.

DRAINAGE AREA.--880 mi² (2,280 km²), approximately, of which about 720 mi² (1,860 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1940 to current year. Published as Frenchman River near Imperial October 1965 to September 1972.

REVISED RECORDS.--WSP 976: 1942(M). WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Prior to Mar. 7, 1941, nonrecording gage at bridge 0.2 mi (0.3 km) upstream at different datum. Mar. 7, 1941, to Sept. 30, 1958, water-stage recorder at site 0.2 mi (0.3 km) downstream at datum 4.35 ft (1.326 m) lower.

REMARKS.--Records good. Natural flow affected by irrigation development above station.

AVERAGE DISCHARGE.--36 years, 68.3 ft³/s (1.934 m³/s), 49,480 acre-ft/yr (61.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,340 ft³/s (66.3 m³/s) Mar. 22, 1960, gage height, 8.43 ft (2.569 m); minimum daily, 21 ft³/s (0.59 m³/s) July 2, 6, 1973.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 7, 1940, reached a stage of 12.4 ft (3.78 m), from floodmarks, site and datum in use Mar. 7, 1941, to Sept. 30, 1958 (discharge not determined but believed greater than that of Mar. 22, 1960).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 113 ft³/s (3.20 m³/s) June 23, gage height, 1.75 ft (0.533 m); no peak above base of 150 ft³/s (4.25 m³/s); minimum daily, 28 ft³/s (0.79 m³/s) Sept. 4, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	38	56	58	53	43	40	45	47	33	37	30
2	37	38	59	42	53	32	41	43	47	34	37	30
3	38	38	58	48	52	41	40	42	45	38	36	29
4	38	38	57	57	51	45	40	43	45	38	35	28
5	38	38	57	56	50	47	40	44	43	37	36	30
6	39	38	56	54	52	57	41	45	41	36	35	30
7	55	38	55	47	56	56	42	46	41	35	35	33
8	42	37	56	51	55	54	47	46	41	34	36	30
9	34	39	57	53	50	52	46	46	39	33	34	30
10	36	39	57	53	48	43	44	46	38	33	32	29
11	36	39	56	53	46	42	42	45	37	33	33	28
12	36	41	55	54	44	43	42	45	36	33	36	30
13	36	41	54	54	43	42	42	44	36	33	35	31
14	35	41	53	53	44	47	42	44	36	33	35	30
15	37	41	51	53	48	46	42	44	34	33	36	33
16	37	41	53	55	46	41	47	44	34	35	35	32
17	37	41	53	56	41	40	46	44	35	35	34	32
18	38	44	53	58	41	39	51	43	37	36	33	33
19	38	30	54	56	40	39	47	42	37	36	33	35
20	38	30	54	55	42	39	46	41	36	38	33	33
21	38	45	54	55	39	38	45	40	36	37	33	33
22	38	55	54	55	49	40	43	52	36	39	34	32
23	38	65	54	55	56	47	43	61	65	37	33	32
24	37	66	54	55	55	39	43	56	62	37	32	32
25	39	60	54	57	48	39	42	51	55	37	31	33
26	51	61	55	53	45	40	42	48	46	35	30	33
27	42	59	56	56	44	39	45	47	44	34	29	32
28	40	58	57	55	45	39	47	45	41	35	30	32
29	39	57	56	54	42	39	47	44	37	36	30	33
30	38	50	55	51	---	39	47	51	36	36	30	32
31	38	---	55	51	---	40	---	48	---	37	30	---
TOTAL	1201	1346	1708	1663	1378	1327	1312	1425	1243	1096	1038	940
MEAN	38.7	44.9	55.1	53.6	47.5	42.8	43.7	46.0	41.4	35.4	33.5	31.3
MAX	55	66	59	58	56	57	51	61	65	39	37	35
MIN	34	30	51	42	39	32	40	40	34	33	29	28
AC-FT	2380	2670	3390	3300	2730	2630	2600	2830	2470	2170	2060	1860
CAL YR 1975	TOTAL	17323	MEAN	47.5	MAX	130	MIN	30	AC-FT	34360		
WTE YR 1976	TOTAL	15677	MEAN	42.8	MAX	66	MIN	28	AC-FT	31100		

KANSAS RIVER BASIN

06832000 ENDERS RESERVOIR NEAR ENDERS, NE

LOCATION.--Lat 40°25'05", long 101°30'55", in NE1/4 sec.9, T.5 N., R.37 W., Chase County, Hydrologic Unit 10250005, near right bank in control house at outlet tube of Enders Dam on Frenchman Creek, 2.2 mi (3.5 km) southeast of Enders.

DRAINAGE AREA.--950 mi² (2,460 km²), approximately, of which about 790 mi² (2,050 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Sept. 3, 1960, mercury-column pressure gage at same datum.

REMARKS.--Reservoir is formed by earthfill dam; storage began Oct. 23, 1950. Capacity, 36,010 acre-ft (44.4 hm³) between elevations 3,080.0 ft (939 m), sill of outlet gates, and 3,112.3 ft (949 m), top of storage pool. Top of flood-control pool at elevation 3,127.0 ft (953 m), capacity, 74,520 acre-ft (91.9 hm³). Top of superstorage flood-control pool at elevation 3,129.5 ft (954 m), capacity, 80,730 acre-ft (99.5 hm³). Dead storage, 8,470 acre-ft (10.4 hm³). Figures given herein represent total contents. Water used for irrigation in Frenchman-Cambridge irrigation project.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 55,330 acre-ft (68.2 hm³) Mar. 25, 1960, elevation, 3,118.20 ft (950.427 m); minimum since operation of reservoir began, 8,940 acre-ft (11.0 hm³) Sept. 6, 1971, elevation, 3,080.79 ft (939.025 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 36,650 acre-ft (45.2 hm³) June 28, elevation, 3,107.41 ft (947.139 m); minimum, 9,920 acre-ft (12.2 hm³) Aug. 27, elevation 3,082.33 ft (939.494 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

3,080	8,470	3,100	26,540
3,085	11,770	3,110	40,660
3,090	15,830		

CONTENTS, IN ACRE-Feet, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15170	17890	21090	24600	27850	30140	32180	34150	36050	35400	21780	10410
2	15280	17960	21220	24650	27950	30160	30880	34180	36080	35110	21350	10510
3	15380	18050	21360	24730	28000	30230	30900	34230	36100	35060	20920	10600
4	15460	18150	21470	24860	28080	30320	30950	34300	36130	34750	20510	10700
5	15540	18260	21570	25000	28150	30410	32360	34320	36130	34420	20070	10810
6	15630	18370	21690	25070	28250	30510	32430	34350	36140	34150	19690	10880
7	15730	18440	21790	25160	28380	30610	32550	34400	36190	33810	19250	10950
8	15810	18520	21930	25270	28500	30720	32620	34450	36230	33420	18800	11020
9	15890	18600	22060	25400	28620	30840	32730	34500	36310	32960	18310	11120
10	15960	18690	22180	25510	28680	30910	32760	34590	36310	32480	17800	11220
11	16060	18760	22280	25630	28770	30980	32790	34660	36290	31940	17280	11320
12	16150	18810	22380	25740	28850	30990	32860	34680	36260	31330	16780	11430
13	16210	18910	22510	25830	28880	31070	32960	34710	36290	30750	16240	11500
14	16300	19010	22590	25940	29000	31120	33010	34750	36250	30190	15740	11660
15	16370	19120	22710	26040	29040	31230	33060	34780	36170	29560	15240	11760
16	16470	19200	22810	26140	29130	31300	33230	34830	36200	29020	14690	11870
17	16550	19300	22930	26270	29200	31380	33310	34920	36170	28520	14120	11990
18	16610	19370	23040	26380	29260	31460	33380	34940	36190	28040	13500	12080
19	16710	19650	23150	26480	29330	31520	33480	35020	36130	27590	12890	12160
20	16810	19660	23270	26580	29400	31530	33520	35050	36110	27110	12290	12270
21	16900	19740	23380	26680	29440	31590	33610	35090	36000	26670	11720	12360
22	16980	19910	23480	26800	29520	31630	33650	35300	36190	26290	11140	12470
23	17080	20040	23570	26920	29610	31760	33710	35390	36340	25880	10610	12660
24	17140	20160	23700	27030	29740	31780	33720	35460	36440	25440	10210	12780
25	17210	20320	23810	27160	29810	31850	33720	35570	36540	25040	10100	12870
26	17340	20440	23910	27250	29900	31870	33720	35630	36560	24590	10000	12950
27	17440	20580	24040	27320	29920	31940	33820	35730	36630	24140	9940	13010
28	17530	20720	24140	27450	30020	31960	33890	35820	36510	23680	10020	13100
29	17620	20830	24260	27570	30060	32000	33990	35850	36160	23220	10120	13210
30	17710	20950	24380	27650	---	32050	34060	35950	35790	22770	10210	13330
31	17810	---	24480	27760	---	32110	---	36000	---	22280	10310	---
MAX	17810	20950	24480	27760	30060	32110	34060	36000	36630	35400	21780	13330
MIN	15170	17890	21090	24600	27850	30140	30880	34150	35790	22280	9940	10410
†	3092.11	3095.18	3098.30	3100.97	3102.74	3104.26	3105.65	3106.97	3106.83	3096.39	3082.92	3087.04
‡	+2740	+3140	+3530	+3280	+2300	+2050	+1950	+1940	-210	-13510	-11970	+3020

CAL YR 1975 MAX 40090 MIN 11760 † 0
WTR YR 1976 MAX 36630 MIN 9940 ‡ -1740

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

KANSAS RIVER BASIN

261

06832500 FRENCHMAN CREEK NEAR ENDERS, NE

LOCATION.--Lat 40°25'05", long 101°30'35", in NW1/4NW1/4 sec.10, T.5 N., R.37 W., Chase County, Hydrologic Unit 10250005, on left bank 0.2 mi (0.3 km) downstream from Enders Dam and 2.5 mi (4.0 km) southeast of Enders.

DRAINAGE AREA.--950 mi² (2,460 km²), approximately, of which about 790 mi² (2,050 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--February 1946 to current year. Published as Frenchman River near Enders October 1965 to September 1972.

REVISED RECORDS.--WSP 2119: 1956, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,026.22 ft (922.392 m) above mean sea level (Bureau of Reclamation bench mark). Prior to June 14, 1948, at site 800 ft (240 m) upstream at datum 6.03 ft (1.838 m) higher. June 14, 1948, to Sept. 14, 1972, at present site at datum 5.00 ft (1.524 m) higher.

REMARKS.--Records good except those below 5.0 ft³/s (0.14 m³/s), which are poor. Flow regulated by Enders Reservoir (station 06832000).

AVERAGE DISCHARGE.--30 years, 67.3 ft³/s (1.906 m³/s), 48,760 acre-ft/yr (60.1 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 763 ft³/s (21.6 m³/s) Aug. 20, 1953, gage height, 11.31 ft (3.447 m), present datum; maximum gage height, 11.65 ft (3.551 m), present datum, July 18, 1958, backwater from downstream tributary; no flow for many days in 1972-76.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 431 ft³/s (12.2 m³/s) July 3, gage height, 8.95 ft (2.728 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0			0	.41	.68	.99	6.7	216	281	
2		0			0	.41	.68	.88	6.7	216	275	
3		0			.01	.41	.65	.83	6.7	236	276	
4		0			.22	.41	.59	.90	6.4	234	278	
5		0			.65	.96	.63	.86	6.4	213	275	
6		0			.71	.85	.73	.97	6.4	190	251	
7		0			.48	.63	.79	1.1	6.4	204	267	
8		0			.43	.52	1.1	.77	6.3	247	294	
9		0			.37	.41	2.0	.77	7.1	257	299	
10		0			.35	.41	4.1	.76	7.2	277	300	
11		0			.40	.43	1.3	.66	6.9	300	314	
12		0			.43	.45	.71	.59	6.6	317	301	
13		0			.43	.49	.51	.64	6.9	324	293	
14		0			.47	.52	.43	.68	6.9	337	300	
15		0			.52	.52	.43	.68	7.2	329	303	
16		0			.62	.52	.58	.68	6.6	305	325	
17		0			.59	.55	.71	.98	7.0	302	320	
18		.06			.56	.59	.77	1.3	25	282	342	
19		.28			.52	.59	.73	1.0	45	270	342	
20		.10			.85	.56	.74	.87	45	271	344	
21		0			.85	.43	.77	.84	58	270	339	
22		0			.74	.43	.77	1.5	101	260	331	
23		0			.52	.48	.77	1.7	52	254	319	
24		0			.63	.52	.77	1.4	2.0	265	268	
25		0			.52	.52	.62	1.3	1.8	269	120	
26		0			.41	.52	.68	1.2	1.5	258	110	
27		0			.41	.52	3.7	1.7	1.4	282	68	
28		0			.41	.52	1.6	12	96	282	19	
29		0			.41	.52	1.1	7.1	205	280	.81	
30		0			---	.68	1.1	7.5	216	291	.68	
31		---			---	.68	---	6.9	---	282	.27	---
TOTAL	0	.44	0	0	13.51	16.46	30.74	60.05	964.1	8320	7555.76	0
MEAN	0	.015	0	0	.47	.53	1.02	1.94	32.1	268	244	0
MAX	0	.28	0	0	.85	.96	4.1	12	216	337	344	0
MIN	0	0	0	0	0	.41	.43	.59	1.4	190	.27	0
AC-FT	0	.9	0	0	27	33	61	119	1910	16500	14990	0
CAL YR 1975	TOTAL	17257.18	MEAN	47.3	MAX	349	MIN	0	AC-FT	34230		
WTF YR 1976	TOTAL	16961.06	MEAN	46.3	MAX	344	MIN	0	AC-FT	33640		

KANSAS RIVER BASIN

06834000 FRENCHMAN CREEK AT PALISADE, NE

LOCATION.--Lat 40°20'50"N, long 101°07'40"W, in SE1/4SW1/4 sec.36, T.5 N., R.34 W., Hayes County, Hydrologic Unit 10250005, on right bank at downstream side of bridge on U.S. Highway 6, 0.4 mi (0.6 km) upstream from Burlington Northern Inc. bridge, 1 mi (2 km) west of Palisade, and 2 mi (3 km) upstream from Stinking Water Creek.

DRAINAGE AREA.--1,110 mi² (2,870 km²), approximately, of which about 950 mi² (2,460 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1894 to October 1896, June 1950 to current year. Published as Frenchman River at Palisade, October 1965 to September 1972.

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,747.49 ft (837.435 m) above mean sea level. October 1894 to October 1896, nonrecording gage at railroad bridge 0.4 mi (0.6 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation development above station and, since Oct. 23, 1950, by storage in Enders Reservoir (station 06832000). Periodic temperature, conductance, and sediment measurements are published in tables for water quality at miscellaneous sites.

AVERAGE DISCHARGE.--28 years, 90.0 ft³/s (2.549 m³/s), 65,200 acre-ft/yr (80.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,560 ft³/s (157 m³/s) June 17, 1956, gage height, 8.79 ft (2.679 m); minimum daily, 13 ft³/s (0.37 m³/s) Mar. 12, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 522 ft³/s (14.8 m³/s) June 23, gage height, 5.21 ft (1.588 m); minimum daily, 16 ft³/s (0.45 m³/s) Nov. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	26	20	30	35	29	31	29	33	170	255	38
2	25	26	23	27	34	29	30	29	32	176	257	33
3	24	25	26	23	34	30	30	27	31	194	252	31
4	25	25	30	19	32	29	29	27	30	251	255	29
5	24	25	27	19	29	28	29	27	29	280	260	28
6	24	25	24	18	28	30	29	27	29	198	247	26
7	24	25	25	17	33	35	29	27	28	181	232	25
8	23	26	28	17	39	37	34	27	28	176	247	25
9	22	26	32	18	40	33	35	28	27	215	263	25
10	23	26	37	20	35	32	32	28	26	223	262	25
11	23	27	36	22	33	32	31	27	25	238	262	25
12	23	28	34	24	32	33	30	27	23	259	279	24
13	24	28	30	26	32	32	29	27	23	274	275	24
14	24	29	25	28	31	33	28	27	23	291	272	24
15	24	29	24	30	31	32	27	27	22	299	279	25
16	24	29	25	33	30	33	29	27	21	299	286	25
17	25	29	26	36	30	33	30	27	21	281	299	25
18	25	28	28	41	30	33	30	26	21	276	296	26
19	25	34	33	46	29	32	29	26	21	261	320	25
20	26	27	39	54	29	32	29	26	31	254	321	25
21	26	25	36	55	32	32	28	26	41	257	327	25
22	27	22	35	55	37	33	26	31	48	255	331	24
23	27	20	33	54	32	33	25	35	253	243	329	24
24	26	20	32	40	30	33	25	33	160	237	306	24
25	26	19	34	34	29	33	24	31	65	243	261	24
26	27	18	31	33	29	32	24	30	48	244	147	23
27	27	17	29	43	29	31	25	30	40	235	125	23
28	27	16	30	42	29	31	28	30	35	255	99	22
29	26	17	34	43	30	31	30	29	40	253	76	22
30	26	18	31	41	---	31	30	34	142	250	52	22
31	26	---	32	37	---	31	---	33	---	257	42	---
TOTAL	773	735	929	1025	923	988	865	885	1396	7525	7514	766
MEAN	24.9	24.5	30.0	33.1	31.8	31.9	28.8	28.5	46.5	243	242	25.5
MAX	27	34	39	55	40	37	35	35	253	299	331	38
MIN	22	16	20	17	28	28	24	26	21	170	42	22
AC-FT	1530	1460	1840	2030	1830	1960	1720	1760	2770	14930	14900	1520
CA1 YR 1975	TOTAL	26151	MEAN 71.6	MAX 626	MIN 16	AC-FT	51870					
WTR YR 1976	TOTAL	24324	MEAN 66.5	MAX 331	MIN 16	AC-FT	48250					

KANSAS RIVER BASIN

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06835000 STINKING WATER CREEK NEAR PALISADE, NE

LOCATION.--Lat 40°22'10", long 101°06'50", at southwest corner of NW1/4 sec.30, T.5 N., R.33 W., Hayes County, Hydrologic Unit 10250006, on right bank 25 ft (8 m) downstream from county bridge, 1.2 mi (1.9 km) upstream from mouth, and 1.8 mi (2.9 km) northwest of Palisade.

DRAINAGE AREA.--1,500 mi² (3,890 km²), approximately, of which about 380 mi² (980 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WSP 1730: 1952(M). WSP 1919: 1951(P), 1955. WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,740.99 ft (835.454 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation development above station.

AVERAGE DISCHARGE.--27 years, 42.8 ft³/s (1.212 m³/s), 31,010 acre-ft/yr (38.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,030 ft³/s (85.8 m³/s) June 17, 1956, gage height, 11.30 ft (3.444 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 6.0 ft³/s (0.17 m³/s) Aug. 4, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 108 ft³/s (3.06 m³/s) July 6, gage height, 4.31 ft (1.314 m); no peak above base of 150 ft³/s (4.25 m³/s); minimum daily, 10 ft³/s (0.28 m³/s) Sept. 6-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	31	22	40	49	42	36	47	33	26	18	11
2	24	31	25	30	52	41	36	43	32	26	19	11
3	24	31	29	27	50	40	36	39	31	30	20	12
4	24	31	32	25	45	37	36	37	30	39	21	11
5	25	30	33	22	37	34	35	36	29	57	21	11
6	25	30	29	19	36	36	36	35	28	85	19	10
7	25	30	25	18	39	42	35	35	28	48	19	10
8	26	30	28	18	42	47	44	35	27	36	18	10
9	26	30	31	19	45	52	64	35	26	29	17	11
10	27	30	33	22	51	51	60	35	26	26	16	11
11	27	30	30	25	49	49	48	35	26	24	15	12
12	27	30	25	28	47	48	43	36	24	23	15	12
13	28	30	22	32	45	44	41	35	23	22	16	13
14	28	30	20	35	44	40	41	34	23	23	16	13
15	28	31	20	35	45	43	40	34	23	22	16	14
16	28	31	20	39	46	43	40	34	23	22	16	16
17	29	31	19	41	46	43	43	34	23	22	16	15
18	29	31	25	45	49	42	48	34	23	21	15	16
19	29	39	34	45	47	41	55	33	23	21	14	16
20	30	30	42	50	45	40	53	32	24	21	13	16
21	29	27	40	46	41	39	48	31	24	21	13	16
22	30	24	41	47	38	38	43	38	23	22	13	16
23	31	22	40	44	43	38	40	78	42	22	12	16
24	31	21	39	45	48	37	39	74	74	22	13	17
25	31	20	43	42	50	37	38	61	63	21	13	17
26	32	20	38	33	47	37	38	54	47	20	13	17
27	32	20	41	31	44	36	38	48	37	20	13	18
28	31	21	41	45	43	37	39	44	32	20	13	18
29	31	21	45	45	42	36	42	39	28	19	12	18
30	31	22	45	43	---	36	46	37	27	18	11	20
31	31	---	43	48	---	36	---	34	---	18	11	---
TOTAL	873	835	1000	1084	1305	1262	1281	1256	922	846	477	424
MEAN	28.2	27.8	32.3	35.0	45.0	40.7	42.7	40.5	30.7	27.3	15.4	14.1
MAX	32	39	45	50	52	52	64	78	74	85	21	20
MIN	24	20	19	18	36	34	35	31	23	18	11	10
AC-FT	1730	1660	1980	2150	2590	2500	2540	2490	1830	1680	946	841
CAL YR 1975	TOTAL	13132	MEAN 36.0	MAX 185	MIN 17	AC-FT 26050						
WTR YR 1976	TOTAL	11565	MEAN 31.6	MAX 85	MIN 10	AC-FT 22940						

KANSAS RIVER BASIN

06835500 FRENCHMAN CREEK AT CULBERTSON, NE

LOCATION.--Lat 40°14'05", long 100°52'40", in SW1/4SE1/4 sec.12, T.3 N., R.32 W., Hitchcock County, Hydrologic Unit 10250005, on right bank 19 ft (6 m) upstream from bridge on U.S. Highways 6 and 34, 2 mi (3 km) west of Culbertson, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--2,770 mi² (7,170 km²), approximately, of which about 1,470 mi² (3,810 km²) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1913 to September 1915 (gage heights and discharge measurements only), October 1930 to current year. Published as Frenchman River at Culbertson October 1965 to September 1972. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1390: 1931, 1933, 1934(M), 1938(M). WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,583.44 ft (787.433 m) above mean sea level. See WSP 1919 for history of changes prior to Nov. 2, 1950.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation development above station and, since Oct. 23, 1950, by storage in Enders Reservoir (station 06832000). Principal diversion is by Culbertson Canal, 20,800 acres (84.2 km²).

AVERAGE DISCHARGE.--46 years, 110 ft³/s (3.115 m³/s), 79,700 acre-ft/yr (98.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft³/s (425 m³/s), estimated, May 31, 1935, gage height, 14.8 ft (4.51 m), from floodmarks, present site and datum; minimum daily, 4.0 ft³/s (0.11 m³/s) Aug. 25, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 498 ft³/s (14.1 m³/s) June 23, gage height, 4.81 ft (1.466 m); maximum gage height, 5.27 ft (1.606 m) Mar. 6, ice jam; minimum daily discharge, 4.0 ft³/s (0.11 m³/s) Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	71	55	97	105	88	79	41	27	37	7.6	44
2	59	73	65	85	107	87	81	40	27	35	7.6	36
3	61	73	80	70	106	85	79	36	23	59	12	30
4	62	72	95	55	102	88	81	31	22	93	14	28
5	59	71	95	50	80	85	80	30	18	149	14	26
6	59	72	90	50	65	85	57	28	18	115	15	22
7	58	73	85	45	78	89	46	27	19	83	11	18
8	57	73	95	40	93	100	45	27	17	44	7.0	17
9	56	74	100	45	112	99	53	27	19	28	7.0	15
10	58	74	100	50	103	99	63	27	24	31	7.0	17
11	61	73	95	65	101	99	53	26	22	25	5.5	17
12	62	76	80	70	100	96	42	26	20	24	5.0	16
13	62	76	70	75	97	90	39	24	20	22	6.5	17
14	61	77	60	80	98	88	38	24	20	38	12	11
15	61	75	55	85	98	89	35	24	19	38	7.6	16
16	61	75	55	93	97	90	37	22	17	30	6.0	19
17	62	75	55	99	96	89	35	23	13	21	5.0	23
18	63	76	60	103	93	88	36	23	10	18	5.0	21
19	65	65	78	106	93	90	40	22	9.3	15	5.0	23
20	65	35	90	103	90	87	43	22	9.1	13	7.6	23
21	66	33	93	107	87	81	40	23	8.2	15	6.5	21
22	65	32	93	108	83	81	35	28	8.6	17	6.0	22
23	66	31	91	110	86	82	32	39	237	7.6	5.0	23
24	67	31	90	109	90	83	31	61	304	6.5	4.5	25
25	66	31	89	108	92	84	29	54	124	5.5	4.0	33
26	69	30	91	95	94	83	30	43	54	7.6	5.5	32
27	71	31	89	68	90	81	31	36	30	9.0	6.0	32
28	70	35	94	92	90	80	32	30	22	7.6	6.0	31
29	69	40	96	110	89	80	34	28	18	8.3	40	32
30	70	45	96	107	---	79	39	28	21	9.6	86	35
31	71	---	95	103	---	79	---	27	---	9.0	45	---
TOTAL	1962	1768	2575	2583	2715	2704	1395	947	1200.2	1020.7	381.9	725
MEAN	63.3	58.9	83.1	83.3	93.6	87.2	46.5	30.5	40.0	32.9	12.3	24.2
MAX	71	77	100	110	112	100	81	61	304	149	86	44
MIN	56	30	55	40	65	79	29	22	8.2	5.5	4.0	11
AC-FT	3890	3510	5110	5120	5390	5360	2770	1880	2380	2020	757	1440
CAL YR 1975	TOTAL	23698.0	MEAN	64.9	MAX	697	MIN	11	AC-FT	47000		
WTR YR 1976	TOTAL	19976.8	MEAN	54.6	MAX	304	MIN	4.0	AC-FT	39620		

KANSAS RIVER BASIN

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06835500 FRENCHMAN CREEK AT CULBERTSON, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)				
NOV 06...	1300	70	560	8.0	12.0	25	11.1				
DEC 16...	1130	58	610	7.9	.0	25	11.9				
JAN 14...	1045	90	500	7.8	.0	20	11.9				
FEB 23...	1100	90	525	7.8	3.0	65	11.7				
MAR 22...	1130	87	540	7.9	8.0	55	10.3				
APR 21...	1145	39	690	7.8	16.0	20	8.8				
MAY 17...	1200	24	700	7.8	16.0	5	9.6				
JUN 14...	1115	18	760	7.9	17.0	10	8.8				
JUL 08...	1130	30	560	8.0	27.0	85	6.8				
AUG 11...	1315	5.4	790	8.0	26.0	4	9.8				

DATE	TIME	COLOR (PLAT-INUM-COBALT UNITS) (00080)	HARDNESS (CA+MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED PHOSPHATE (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)
JAN 14...	1045	8	200	0	56	15	20	.6	12	252	0
JUL 08...	1130	13	220	0	57	18	20	.6	23	268	0

DATE	ALKALINITY AS CaCO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	DISSOLVED FLUORIDE (F) (MG/L) (00950)	DISSOLVED SILICA (SiO2) (MG/L) (00955)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DISSOLVED SOLIDS (TONS PER DAY) (70302)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DISSOLVED PHOSPHORUS (P) (MG/L) (00666)	DISSOLVED BORON (B) (UG/L) (01020)
JAN 14...	207	41	5.5	1.0	51	336	81.6	.46	2.3	.05	90
JUL 08...	220	45	5.7	.8	42	352	28.5	.48	1.9	.06	110

06836000 BLACKWOOD CREEK NEAR CULBERTSON, NE

LOCATION.--Lat 40°14'10", long 100°48'39", in SE1/4SW1/4 sec.10, T.3 N., R.31 W., Hitchcock County, Hydrologic Unit 10250004, on right bank 500 ft (152 m) upstream from bridge on U.S. Highways 6 and 34, 0.2 mi (0.3 km) north of Burlington Northern Inc. bridge, 1 mi (2 km) east of Culbertson, and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--320 mi² (830 km²), approximately, of which about 270 mi² (700 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--May 1946 to current year.

REVISED RECORDS.-- WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,555.25 ft (778.840 m) above mean sea level. Prior to Oct. 1, 1967, at site 0.2 mi (0.3 km) downstream at present datum and Oct. 1, 1967, to Aug. 28, 1968, at site 0.8 mi (1.3 km) downstream at datum 8.96 ft (2.731 m) lower.

REMARKS.--Records fair. Natural flow affected by irrigation development above station, return flow from irrigated areas, and waste from Culbertson Canal.

AVERAGE DISCHARGE.--30 years, 6.65 ft³/s (0.188 m³/s), 4,820 acre-ft/yr (5.94 hm³/yr); median of yearly mean discharges, 6.1 ft³/s (0.173 m³/s), 4,400 acre-ft/yr (5.43 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft³/s (46.7 m³/s) June 17, 1955, gage height, 14.64 ft (4.462 m), site then in use; no flow Jan. 4-6, 1950.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 31, 1935, reached a stage of 24.0 ft (7.32 m), at site 0.2 mi (0.3 km) downstream, at present datum, from floodmarks, discharge, about 5,300 ft³/s (150 m³/s), from information by Nebraska Department of Roads.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft³/s (4.25 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 21	0745	*912 25.8	7.32 2.231
July 4	2000	194 5.5	4.08 1.244

Minimum daily discharge, 0.52 ft³/s (0.015 m³/s) Nov. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.5	1.4	1.5	2.3	1.8	1.3	7.2	4.2	11	13	3.1
2	2.4	2.5	2.2	.80	2.3	2.0	1.8	6.2	3.7	11	14	2.3
3	2.4	2.5	2.1	.68	2.5	2.1	2.0	10	3.3	14	11	1.6
4	2.3	2.7	1.9	.92	1.1	1.8	1.8	14	3.1	102	9.2	1.6
5	2.3	2.6	1.7	1.4	1.1	1.6	1.9	18	3.3	42	8.5	1.6
6	2.3	3.3	1.5	.76	1.4	1.8	2.0	12	3.3	16	7.8	1.8
7	2.5	2.5	1.8	.72	1.7	1.8	2.1	7.4	2.9	11	5.9	1.9
8	3.5	2.3	2.1	.80	2.2	2.1	3.5	6.2	3.0	4.7	5.6	2.3
9	3.4	2.1	2.3	.72	2.3	2.1	2.3	7.6	2.8	4.6	4.9	2.2
10	4.1	2.0	2.3	1.4	2.2	1.8	2.0	7.2	2.5	4.2	3.5	2.0
11	4.2	2.1	2.5	1.6	1.9	1.9	2.7	5.6	2.3	11	4.9	2.0
12	3.9	2.0	2.5	3.7	2.0	1.7	2.1	5.6	2.1	11	3.8	2.0
13	3.5	1.7	2.5	2.7	1.9	1.7	5.5	5.9	2.3	7.2	3.1	1.9
14	3.3	2.6	1.4	1.8	2.0	1.7	10	3.4	2.5	6.1	2.7	1.8
15	3.5	2.3	1.6	2.4	2.0	1.5	5.2	6.1	3.0	5.5	3.2	1.8
16	3.3	2.2	2.1	2.6	2.0	1.5	14	4.0	5.2	7.4	3.9	1.6
17	3.1	2.0	1.0	3.0	1.9	1.5	13	3.6	3.3	11	5.0	1.6
18	3.1	2.0	1.3	3.5	1.9	1.5	16	3.3	2.7	8.0	4.0	1.6
19	2.9	2.5	2.0	3.1	2.0	1.6	20	3.1	2.9	6.5	4.3	1.5
20	2.9	.80	2.1	2.1	2.1	1.8	16	2.7	2.8	8.5	5.9	1.5
21	2.7	1.1	2.2	2.0	2.5	1.6	11	323	2.1	9.3	4.8	1.6
22	2.8	.72	2.0	2.1	2.5	1.6	12	28	1.8	8.3	3.2	1.6
23	2.8	.92	1.6	2.2	2.2	1.6	9.5	21	46	7.2	4.2	1.6
24	2.9	1.6	2.0	2.3	2.2	1.7	5.2	10	37	5.9	4.1	1.5
25	3.0	.64	1.6	1.7	2.1	1.6	4.7	5.4	10	4.5	2.8	.86
26	3.5	.60	1.8	1.0	2.0	1.6	4.4	5.0	4.5	2.6	3.5	.73
27	3.0	.64	1.9	1.5	2.0	1.6	4.7	5.7	2.1	8.3	8.1	.72
28	2.9	.52	2.1	2.2	1.9	1.6	6.5	7.1	1.5	7.6	8.2	.72
29	2.9	1.0	2.2	2.3	1.8	1.8	8.2	6.1	1.4	5.0	25	.98
30	3.1	.68	2.0	2.5	---	1.6	5.5	4.2	3.0	4.8	41	1.0
31	2.8	---	2.2	2.6	---	1.3	---	3.8	---	8.4	11	---
TOTAL	93.7	53.62	59.9	58.60	58.0	52.9	196.9	558.4	170.6	374.6	240.1	49.01
MEAN	3.02	1.79	1.93	1.89	2.00	1.71	6.56	18.0	5.69	12.1	7.75	1.63
MAX	4.2	3.3	2.5	3.7	2.5	2.1	20	323	46	102	41	3.1
MIN	2.3	.52	1.0	.68	1.1	1.3	1.3	2.7	1.4	2.6	2.7	.72
AC-FT	186	106	119	116	115	105	391	1110	338	743	476	97

CAL YR 1975	TOTAL	3111.02	MEAN	8.52	MAX	318	MIN	.52	AC-FT	6170
WTR YR 1976	TOTAL	1966.33	MEAN	5.37	MAX	323	MIN	.52	AC-FT	3900

06836500 DRIFTWOOD CREEK NEAR MCCOOK, NE

LOCATION.--Lat 40°08'50", long 100°39'55", in SW1/4SW1/4 sec.12, T.2 N., R.30 W., Red Willow County, Hydrologic Unit 10250004, on right bank 50 ft (15 m) downstream from privately owned bridge, 600 ft (183 m) downstream from siphon and wasteway on Meeker-Driftwood Canal, 4.5 mi (7.2 km) southwest of McCook, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--360 mi² (930 km²), approximately, of which about 350 mi² (910 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--March 1946 to current year.

REVISED RECORDS.--WSP 1210: 1950.

GAGE.--Water-stage recorder. Datum of gage is 2,453.78 ft (760.104 m) above mean sea level. Prior to Oct. 12, 1962, at site 0.2 mi (0.3 km) downstream in old channel at present datum, and Oct. 12, 1962, to Apr. 11, 1963, at site 0.5 mi (0.8 km) downstream at datum 3.75 ft (1.143 m) lower.

REMARKS.--Records fair. Natural flow affected by waste from Meeker-Driftwood Canal and by irrigation development above station.

AVERAGE DISCHARGE.--30 years, 10.8 ft³/s (0.306 m³/s), 7,820 acre-ft/yr (9.64 hm³/yr); median of yearly mean discharges, 8.3 ft³/s (0.235 m³/s), 6,000 acre-ft/yr (7.40 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,740 ft³/s (134 m³/s) Aug. 7, 1950, gage height, 25.43 ft (7.751 m), at site then in use, from floodmark, from rating curve extended above 3,000 ft³/s (85.0 m³/s); no flow at times in 1946-50, 1952-56.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 518 ft³/s (14.7 m³/s) May 21 at 1945, gage height, 14.37 ft (4.380 m); no other peak above base of 300 ft³/s (8.50 m³/s); minimum daily, 3.0 ft³/s (0.085 m³/s) June 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	6.5	6.3	6.8	6.8	6.8	6.0	6.3	6.6	5.1	14	12
2	6.0	6.5	6.3	6.8	6.8	6.8	6.0	6.3	6.1	6.8	15	11
3	6.0	6.5	6.5	6.3	6.8	7.1	6.0	6.0	6.2	12	15	11
4	6.0	6.5	6.8	6.3	7.1	6.8	6.0	6.0	6.5	11	14	10
5	6.0	6.5	6.8	6.3	6.5	7.1	6.0	5.7	4.7	10	15	9.1
6	6.0	6.8	6.5	6.5	6.5	6.8	6.0	5.7	5.3	6.8	16	8.5
7	5.7	7.1	6.5	6.0	7.1	7.4	6.0	5.7	5.5	9.4	15	9.4
8	5.5	7.1	6.8	6.0	7.4	7.7	19	5.7	4.5	9.0	15	9.1
9	6.3	6.8	6.8	6.0	7.7	7.7	17	13	4.3	9.8	15	8.2
10	6.8	6.8	7.1	6.3	7.9	7.7	8.5	11	4.7	9.7	15	8.8
11	7.1	6.3	7.7	6.3	7.4	7.4	6.8	6.0	4.5	11	14	7.4
12	7.1	6.0	7.4	6.3	7.1	7.1	6.5	5.7	3.9	10	16	6.0
13	7.1	6.3	6.8	6.3	7.1	6.8	6.3	5.4	3.0	9.7	16	6.5
14	6.8	6.5	6.8	6.5	6.8	6.5	6.0	5.4	4.0	10	19	6.5
15	6.5	6.5	6.5	6.5	6.8	6.8	6.0	5.7	3.7	11	15	41
16	6.5	6.3	6.5	6.8	6.8	6.5	7.1	6.0	5.7	9.4	15	27
17	6.5	6.3	6.5	7.1	6.8	6.5	6.8	4.7	15	12	15	15
18	6.5	6.3	6.5	7.4	6.8	6.3	6.3	4.4	7.5	12	15	11
19	7.1	6.1	6.8	7.1	6.5	6.3	6.0	4.2	6.0	11	13	9.4
20	7.1	6.6	6.5	6.5	6.3	6.0	6.0	4.2	6.8	13	15	11
21	7.1	6.5	6.5	6.5	6.5	5.5	6.0	197	7.4	15	14	8.5
22	7.1	6.5	6.5	6.3	6.3	5.5	6.0	89	7.5	14	14	7.9
23	5.7	6.3	6.5	6.3	6.3	5.5	6.0	19	44	14	14	7.1
24	6.0	6.3	6.5	6.3	6.3	5.5	6.0	14	12	14	14	7.1
25	6.3	6.3	6.5	6.3	6.5	5.5	5.7	10	7.9	15	13	7.4
26	6.3	6.5	6.3	5.7	6.5	5.7	5.7	8.8	7.7	16	12	7.4
27	6.3	6.5	6.3	6.0	6.8	5.5	5.7	15	7.5	17	12	7.1
28	6.3	6.3	6.5	6.3	6.8	5.2	5.7	18	6.6	20	12	7.1
29	6.3	6.3	6.8	6.3	7.1	6.5	6.3	7.7	5.9	20	13	6.5
30	6.3	6.0	6.8	6.5	---	6.8	6.3	6.8	5.7	19	13	6.5
31	6.3	---	7.1	6.5	---	6.0	---	6.5	---	16	13	---
TOTAL	198.3	193.8	206.7	199.1	198.1	201.3	209.7	514.9	226.7	378.7	446	310.5
MEAN	6.40	6.46	6.67	6.42	6.83	6.49	6.99	16.6	7.56	12.2	14.4	10.4
MAX	7.1	7.1	7.7	7.4	7.9	7.7	19	197	44	20	19	41
MIN	5.5	6.0	6.3	5.7	6.3	5.2	5.7	4.2	3.0	5.1	12	6.0
AC-FT	393	384	410	395	393	399	416	1020	450	751	885	616
CA1 YR 1975	TOTAL	3661.2	MEAN	10.0	MAX	106	MIN	3.9	AC-FT	7260		
WTR YR 1976	TOTAL	3283.8	MEAN	8.97	MAX	197	MIN	3.0	AC-FT	6510		

KANSAS RIVER BASIN

06837000 REPUBLICAN RIVER AT MCCOOK, NE

LOCATION.--Lat 40°11'15", long 100°37'05", in SW1/4NE1/4 sec.32, T.3 N., R.29 W., Red Willow County, Hydrologic Unit 10250004, on left bank 25 ft (8 m) downstream from bridge on U.S. Highway 83 at south edge of McCook, 2.5 mi (4.0 km) downstream from Driftwood Creek, and 10.5 mi (16.9 km) upstream from Red Willow Creek.

DRAINAGE AREA.--12,310 mi² (31,900 km²), approximately, of which about 6,260 mi² (16,200 km²) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to June 1932, October 1954 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,456.37 ft (748.702 m) above mean sea level. October 1930 to June 1932 nonrecording gage on former highway bridge 325 ft (99.1 m) upstream at different datum and October 1954 to Mar. 13, 1959, on highway bridge 25 ft (7.6 m) upstream at present datum.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation development above station and by storage in Bonny Reservoir, Enders Reservoir (station 06832000), and Swanson Lake (station 06829000).

AVERAGE DISCHARGE.--23 years, 202 ft³/s (5.721 m³/s), 146,300 acre-ft/yr (0.180 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,890 ft³/s (167 m³/s) Mar. 21, 1960, gage height, 9.14 ft (2.786 m); no flow for several days in July and August 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since at least 1826 occurred May 31, 1935, discharge, about 245,000 ft³/s (6,940 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 864 ft³/s (24.5 m³/s) May 22, gage height, 5.54 ft (1.689 m); minimum daily, 38 ft³/s (1.08 m³/s) Nov. 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	91	55	100	155	151	125	86	71	139	191	213
2	68	95	75	65	166	152	128	85	65	186	203	200
3	62	97	100	55	168	146	129	84	60	230	177	164
4	65	97	115	55	160	135	128	86	60	348	158	86
5	61	97	115	65	140	100	123	80	58	320	157	72
6	62	97	120	60	115	130	109	83	54	257	152	63
7	62	95	125	60	120	160	86	76	51	229	145	54
8	60	92	130	60	135	171	132	71	49	220	133	52
9	63	93	150	65	173	165	137	72	47	207	129	47
10	65	94	150	70	154	159	120	84	45	208	124	42
11	67	94	140	75	145	153	117	67	44	197	143	44
12	65	94	120	80	144	147	109	66	43	193	169	39
13	66	93	100	85	141	139	99	62	46	216	175	47
14	70	94	80	90	143	130	98	58	52	229	187	41
15	73	97	70	100	146	130	94	56	58	233	178	94
16	76	99	60	110	146	133	112	54	73	229	168	80
17	78	101	55	120	141	133	105	54	83	221	159	63
18	79	101	50	140	139	126	96	51	94	221	154	52
19	81	90	55	170	137	126	98	45	100	216	153	51
20	85	75	60	155	138	121	98	41	119	269	158	51
21	87	65	75	155	133	116	92	491	137	304	161	51
22	88	55	90	160	131	116	85	455	138	310	223	47
23	88	48	100	155	130	119	87	189	505	292	251	43
24	90	45	108	150	138	119	85	149	406	291	275	42
25	90	40	115	130	140	121	82	132	217	279	338	57
26	89	38	120	90	140	126	84	117	139	275	357	55
27	88	38	135	105	139	127	85	103	115	290	347	49
28	88	40	145	120	141	125	92	110	100	232	345	50
29	88	42	136	135	147	136	92	78	86	190	347	50
30	88	45	135	145	---	128	86	76	97	186	420	51
31	89	---	134	149	---	122	---	76	---	183	278	---
TOTAL	2354	2342	3218	3274	4145	4162	3113	3337	3212	7400	6555	2050
MEAN	75.9	78.1	104	106	143	134	104	108	107	239	211	68.3
MAX	90	101	150	170	173	171	137	491	505	348	420	213
MIN	60	38	50	55	115	100	82	41	43	139	124	39
AC-FT	4670	4650	6380	6490	8220	8260	6170	6620	6370	14680	13000	4070

CAI YR 1975 TOTAL 43807 MEAN 120 MAX 1070 MIN 38 AC-FT 86890
WTF YR 1976 TOTAL 45162 MEAN 123 MAX 505 MIN 38 AC-FT 89580

06837000 REPUBLICAN RIVER AT MCCOOK, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1967 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1966 to current year.

INSTRUMENTATION.--Temperature recorder since Dec. 13, 1966.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 38.5°C June 24, 1971; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 34.0°C July 14; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1956
(RECORDER WITH TEMPERATURE ATTACHMENT, CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	9.0	13.5	7.0	0.0	0.0	1.0	0.0	5.0	0.5	7.5	4.0
2	17.0	10.0	10.5	6.5	0.0	0.0	0.0	0.0	4.5	1.0	4.5	2.5
3	19.0	11.0	15.0	6.0	0.5	0.0	0.5	0.0	6.0	1.0	4.5	1.5
4	17.0	11.0	15.0	6.0	0.5	0.0	0.0	0.0	0.5	0.0	2.5	1.5
5	17.5	12.0	14.5	6.0	0.0	0.0	0.5	0.0	0.0	0.0	3.5	1.5
6	17.5	10.5	15.0	9.5	0.5	0.0	0.5	0.0	0.0	0.0	2.0	1.5
7	17.0	11.0	14.0	7.0	0.5	0.0	0.0	0.0	1.0	0.5	6.0	1.5
8	15.0	10.5	14.0	9.0	0.5	0.0	0.0	0.0	2.0	0.5	7.5	4.5
9	18.5	7.5	11.0	6.5	0.5	0.0	0.0	0.0	3.5	1.0	10.5	5.0
10	19.5	8.5	10.0	3.5	0.5	0.0	0.0	0.0	6.0	1.5	12.0	7.0
11	20.5	10.0	9.0	2.0	0.0	0.0	0.0	0.0	6.0	2.5	11.5	8.5
12	22.0	10.5	6.0	1.0	0.0	0.0	0.0	0.0	6.5	3.5	10.5	5.0
13	21.5	14.0	7.5	1.0	0.0	0.0	0.0	0.0	7.0	3.5	8.5	3.5
14	17.0	9.0	9.0	1.0	0.0	0.0	0.0	0.0	6.5	2.5	9.0	5.0
15	17.0	7.5	9.0	1.5	0.0	0.0	0.0	0.0	5.5	2.5	7.5	5.0
16	13.5	8.5	9.5	2.0	0.0	0.0	0.0	0.0	7.5	4.0	10.5	4.5
17	14.0	6.0	10.0	3.5	0.0	0.0	0.5	0.0	6.5	2.0	13.5	7.5
18	16.0	6.0	7.5	5.0	0.0	0.0	1.0	0.5	6.0	1.5	16.0	10.0
19	17.0	6.5	5.0	0.5	0.0	0.0	2.0	0.5	6.5	0.5	16.0	11.5
20	17.0	6.5	0.5	0.0	0.0	0.0	1.0	0.5	5.5	0.0	14.0	9.5
21	17.0	6.5	0.5	0.0	0.0	0.0	0.5	0.0	3.5	0.0	17.5	9.0
22	17.0	7.0	0.5	0.0	0.5	0.0	2.0	0.5	5.0	0.0	17.5	10.0
23	12.5	7.0	0.5	0.0	0.5	0.0	4.0	1.0	11.5	0.5	18.5	9.0
24	9.0	5.0	0.0	0.0	0.0	0.0	3.5	0.5	12.5	4.0	19.5	10.0
25	9.5	1.0	0.0	0.0	0.0	0.0	1.0	0.0	14.0	6.0	20.0	11.0
26	11.5	3.5	0.0	0.0	0.0	0.0	0.5	0.0	14.0	6.0	16.0	11.5
27	13.5	5.5	0.0	0.0	0.0	0.0	1.0	0.0	13.5	6.0	15.5	9.0
28	11.0	4.5	0.0	0.0	2.0	0.0	2.0	0.0	12.0	6.0	14.0	10.5
29	11.0	4.0	0.0	0.0	3.5	0.5	4.0	0.5	10.5	6.5	12.0	9.0
30	12.5	5.0	0.0	0.0	4.0	0.0	2.5	0.5	---	---	12.0	6.5
31	13.5	6.5	---	---	2.0	0.0	4.0	0.0	---	---	15.0	7.0
MONTH	22.0	1.0	15.0	0.0	4.0	0.0	4.0	0.0	14.0	0.0	20.0	1.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	9.0	20.5	10.0	23.5	16.0	23.5	20.0	26.5	22.5	26.0	22.0
2	18.5	11.5	22.0	10.0	24.0	17.0	22.5	21.0	25.0	21.0	25.5	21.0
3	17.5	10.5	25.0	9.5	22.5	17.5	23.5	20.5	25.5	21.5	26.0	20.5
4	17.5	9.5	28.5	11.0	21.5	17.0	22.5	21.0	30.5	21.5	25.5	18.5
5	20.5	11.0	26.5	15.5	21.0	16.0	24.0	20.5	28.5	21.5	30.0	18.5
6	21.0	15.0	25.0	11.0	21.5	16.0	29.0	21.5	27.0	21.0	28.5	19.0
7	17.0	14.0	24.5	11.0	21.0	16.5	27.5	22.5	27.0	20.5	24.0	17.5
8	14.5	12.5	25.5	11.5	22.0	16.0	28.5	22.5	28.5	21.0	22.5	15.5
9	19.5	11.5	26.0	15.0	24.5	16.5	28.5	22.5	32.0	22.0	25.5	12.5
10	20.0	14.0	30.5	16.5	25.5	17.5	29.0	23.5	31.5	21.0	25.5	12.5
11	17.0	14.0	29.5	15.0	24.5	17.5	29.5	24.5	29.5	21.0	29.5	14.5
12	18.5	12.5	26.0	15.5	23.5	16.0	32.5	25.0	31.0	20.5	25.5	17.5
13	22.0	15.0	21.5	12.5	24.0	14.5	32.5	24.5	29.5	20.5	28.5	17.5
14	22.0	15.5	29.0	10.0	26.0	14.5	34.0	25.5	29.0	20.0	26.0	16.5
15	20.0	16.0	26.5	12.5	26.0	12.0	30.5	26.0	26.0	20.5	23.5	17.0
16	19.0	14.5	20.0	11.5	26.5	14.5	30.5	23.5	30.0	21.5	19.5	18.5
17	19.0	13.5	26.0	7.5	28.5	17.0	31.5	24.5	29.5	20.0	25.5	17.5
18	19.5	12.0	25.5	10.5	25.5	16.0	30.5	25.0	30.0	20.5	26.5	17.5
19	13.5	19.5	27.5	13.5	27.0	16.0	32.0	25.5	30.0	20.5	22.0	16.5
20	19.5	14.0	29.0	15.0	29.0	17.5	30.0	27.0	29.5	19.5	23.5	13.5
21	20.5	12.5	20.5	16.5	28.5	21.0	27.5	25.5	28.5	20.5	25.0	12.0
22	23.5	14.5	17.0	15.5	28.5	21.0	31.5	24.5	27.5	22.0	23.5	12.5
23	24.5	17.0	15.5	14.5	25.0	20.0	32.0	25.5	26.5	22.5	22.0	14.0
24	19.0	15.0	15.0	13.5	21.5	18.5	30.5	25.0	29.0	21.5	21.5	12.0
25	20.0	13.5	14.0	12.5	22.5	19.0	29.5	24.5	29.0	23.5	17.5	16.0
26	15.0	11.0	16.0	12.5	22.5	20.0	29.0	23.5	29.0	24.0	21.0	14.5
27	11.0	10.0	20.0	13.5	24.0	19.5	31.0	24.5	26.0	23.5	18.5	12.0
28	10.5	10.0	21.5	16.0	25.5	21.5	30.5	24.5	25.5	21.0	19.0	7.0
29	12.0	10.0	22.5	17.0	24.5	21.0	31.0	25.0	25.5	21.5	21.0	7.5
30	18.5	10.0	20.5	17.0	24.0	20.5	31.0	25.0	26.0	21.5	23.5	9.5
31	---	---	22.0	16.5	---	---	29.5	26.0	25.5	22.0	---	---
MONTH	24.5	9.0	30.5	7.5	29.0	12.0	34.0	20.0	32.0	19.5	30.0	7.0

06837300 RED WILLOW CREEK ABOVE HUGH BUTLER LAKE, NE

LOCATION.--Lat 40°24'05", long 100°46'45", in NE1/4SE1/4 sec.13, T.5 N., R.31 W., Hayes County, Hydrologic Unit 10250007, on right bank 1,000 ft (305 m) above county road bridge, 7.2 mi (11.6 km) upstream from Red Willow Dam, and 12 mi (19 km) northeast of Culbertson.

DRAINAGE AREA.--600 mi² (1,550 km²), approximately, of which about 200 mi² (520 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Artificial control since March 1961. Datum of gage is 2,594.80 ft (790.895 m) above mean sea level. Prior to Mar. 23, 1961, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by pump irrigation development above station.

AVERAGE DISCHARGE.--16 years, 29.3 ft³/s (0.830 m³/s), 21,230 acre-ft/yr (26.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,020 ft³/s (114 m³/s) June 16, 1972, gage height, 13.27 ft (4.045 m), from rating curve extended above 1,000 ft³/s (28.3 m³/s) on basis of slope-conveyance study; minimum daily, 4.0 ft³/s (0.11 m³/s) July 4, 5, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft³/s (4.25 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
July 4	0545	175 5.0	2.55 0.777	Sept. 13	0730	228 6.5	2.87 0.875
Aug. 1	0645	*254 7.2	3.02 0.920				

Minimum daily discharge, 7.0 ft³/s (0.20 m³/s) July 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	24	18	26	41	25	26	40	25	17	74	13
2	16	24	21	12	42	29	26	37	23	16	19	13
3	17	24	25	20	43	25	26	34	22	18	17	13
4	17	24	30	22	42	23	26	30	21	59	16	12
5	17	24	32	26	32	18	26	29	20	34	15	12
6	17	24	28	22	30	20	26	27	19	32	15	12
7	17	25	30	16	24	26	27	25	19	24	14	9.4
8	16	25	35	18	28	32	30	24	19	20	14	8.2
9	17	25	36	20	30	37	35	30	19	18	14	8.5
10	17	25	36	20	34	43	36	27	19	16	12	8.8
11	18	25	38	20	36	43	36	24	19	16	8.8	8.8
12	18	24	34	20	38	40	33	29	19	14	12	9.2
13	18	24	30	20	39	47	31	29	18	13	12	63
14	18	24	26	20	38	50	30	29	16	12	12	11
15	19	23	20	20	38	41	30	26	15	13	12	38
16	19	24	18	22	38	40	32	25	15	14	13	15
17	19	25	15	22	39	38	45	24	15	12	12	13
18	20	26	18	24	39	39	53	23	15	11	12	12
19	20	20	22	24	38	37	51	23	15	10	10	12
20	20	15	24	24	37	33	53	22	15	10	9.2	12
21	20	15	24	26	30	31	49	21	14	12	7.8	12
22	20	18	26	26	30	29	39	39	14	11	7.2	13
23	21	21	26	26	33	29	34	86	34	11	8.1	13
24	21	20	28	26	34	29	31	83	24	12	8.3	13
25	21	16	28	26	37	28	29	69	27	12	8.5	14
26	22	13	28	26	36	27	27	58	28	12	14	14
27	22	13	30	26	22	27	26	48	27	13	19	14
28	23	14	31	30	25	26	27	41	22	12	22	14
29	23	14	32	32	19	26	32	35	20	11	15	14
30	24	15	35	34	---	26	38	30	19	10	13	14
31	24	---	36	38	---	26	---	27	---	7.0	13	---
TOTAL	597	633	860	734	992	990	1010	1094	597	502.0	458.9	438.9
MEAN	19.3	21.1	27.7	23.7	34.2	31.9	33.7	35.3	19.9	16.2	14.8	14.6
MAX	24	26	38	38	43	50	53	86	34	59	74	63
MIN	16	13	15	12	19	18	26	21	14	7.0	7.2	8.2
AC-FT	1180	1260	1710	1460	1970	1960	2000	2170	1180	996	910	871

CAL YR	TOTAL	MEAN	MAX	MIN	AC-FT
1975	10553.0	28.9	389	10	20930
1976	8906.8	24.3	86	7.0	17670

06837390 HUGH BUTLER LAKE NEAR MCCOOK, NE

LOCATION.--Lat 40°21'35", long 100°39'55", in SW1/4NW1/4 sec.31, T.5 N., R.29 W., Frontier County, Hydrologic Unit 10250007, in gate-control house at outlet tube of Red Willow Dam on Red Willow Creek, 12 mi (19 km) north of McCook.

DRAINAGE AREA.--730 mi² (1,890 km²), approximately, of which about 310 mi² (800 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--September 1961 to current year.

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Gage is referred to mean sea level. Prior to July 10, 1962, nonrecording gages at present datum.

REMARKS.--Reservoir is formed by earthfill dam; storage began Sept. 5, 1961. Capacity, 31,470 acre-ft (38.8 hm³) between elevations 2,522.0 ft (769 m), sill of outlet works, and 2,581.8 ft (787 m), top of irrigation pool. Top of flood-control pool and crest of main spillway at elevation 2,604.9 ft (794 m), capacity, 86,360 acre-ft (0.106 km³). Top of superstorage flood-control pool at elevation 2,627.8 ft (801 m), capacity, 162,600 acre-ft (0.200 km³). Dead storage, 6,310 acre-ft (7.78 hm³). Figures given herein represent total contents. Water used for irrigation in Frenchman-Cambridge irrigation project.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 41,680 acre-ft (51.4 hm³) July 15, 16, 1967, elevation, 2,584.14 ft (787.646 m); minimum since operation of reservoir began, 21,620 acre-ft (26.7 hm³) Nov. 8, 9, 1962, elevation, 2,569.84 ft (783.287 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 36,660 acre-ft (45.2 hm³) June 1-4, elevation, 2,581.11 ft (786.722 m); minimum, 22,720 acre-ft (28.0 hm³) Sept. 8-11, elevation, 2,570.82 ft (783.586 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

2,570	21,800	2,580	34,910
2,575	27,800	2,585	43,170

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27650	28120	29220	31000	32450	33650	34760	36040	36660	34340	29910	23440
2	27650	28140	29280	30980	32490	33700	34820	36040	36660	34280	29810	23310
3	27660	28170	29340	30980	32550	33730	34820	36040	36660	34230	29660	23200
4	27680	28200	29390	31040	32610	33780	34820	36070	36640	34220	29530	23090
5	27700	28220	29450	31070	32640	33790	34830	36090	36630	34140	29360	23020
6	27710	28260	29500	31100	32670	33810	34860	36100	36630	34060	29200	22920
7	27710	28300	29600	31130	32730	33840	34990	36120	36590	33910	29040	22820
8	27720	28330	29660	31160	32790	33900	35050	36150	36580	33740	28920	22720
9	27700	28390	29730	31190	32830	33970	35080	36150	36580	33560	28760	22720
10	27710	28410	29810	31240	32880	34000	35140	36200	36460	33380	28630	22720
11	27740	28450	29880	31260	32940	34080	35160	36240	36370	33160	28430	22740
12	27760	28450	29950	31300	33010	34160	35190	36310	36270	32910	28290	22760
13	27770	28460	30030	31330	33040	34220	35220	36310	36180	32680	28120	23220
14	27790	28470	30070	31400	33110	34250	35250	36310	35990	32480	27960	23250
15	27790	28490	30100	31410	33160	34360	35380	36310	35830	32240	27770	23340
16	27800	28530	30140	31440	33200	34390	35440	36230	35740	32020	27650	23360
17	27800	28540	30190	31510	33280	34430	35490	36120	35630	31830	27440	23390
18	27810	28610	30240	31550	33320	34490	35530	36020	35500	31630	27170	23430
19	27840	28860	30280	31620	33350	34530	35600	35940	35390	31580	26900	23440
20	27880	28860	30300	31680	33400	34560	35660	35910	35270	31210	26620	23440
21	27880	28870	30340	31720	33430	34560	35740	35900	35100	31070	26360	23450
22	27930	28880	30380	31800	33440	34570	35750	36050	34830	30900	26110	23480
23	27920	28910	30430	31860	33470	34600	35800	36120	35080	30750	25870	23480
24	27930	28920	30470	31940	33520	34630	35830	36240	34990	30600	25600	23540
25	27930	28970	30510	32020	33560	34680	35850	36350	34910	30440	25300	23570
26	27960	28990	30570	32050	33590	34680	35850	36450	34830	30250	24980	23590
27	27980	29030	30620	32110	33610	34690	35860	36500	34760	30170	24630	23610
28	28000	29070	30650	32180	33650	34690	35900	36560	34690	30000	24290	23630
29	28020	29130	30720	32260	33650	34730	35930	36590	34600	29880	24020	23650
30	28060	29160	30770	32330	---	34740	35970	36610	34490	29750	23810	23670
31	28090	---	30840	32400	---	34740	---	36630	---	29600	23640	---
MAX	28090	29160	30840	32400	33650	34740	35970	36630	36660	34340	29910	23670
MIN	27650	28120	29220	30980	32450	33650	34760	35900	34490	29600	23640	22720
†	2575.22	2576.03	2577.25	2578.34	2579.18	2579.89	2580.68	2581.09	2579.73	2576.35	2571.61	---
‡	+440	+1070	+1680	+1560	+1250	+1090	+1230	+660	-2140	-4890	-5960	+30
CAL YR 1975	MAX	38600	MIN	27500	†+1090							
WTR YR 1976	MAX	36660	MIN	22720	‡-3980							

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

KANSAS RIVER BASIN

06837500 RED WILLOW CREEK NEAR MCCOOK, NE

LOCATION.--Lat 40°20'50", long 100°38'35", in SW1/4NW1/4 sec.6, T.4 N., R.29 W., Red Willow County, Hydrologic Unit 10250007, on left bank 45 ft (14 m) downstream from bridge on U.S. Highway 83, 3 mi (5 km) downstream from Red Willow Dam and 10 mi (16 km) north of McCook.

DRAINAGE AREA.--740 mi² (1,920 km²), approximately, of which about 320 mi² (830 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1940 to September 1947. Annual maximums, water years 1958-60. October 1960 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.-- WSP 2119: Drainage area.

GAGE.--Water-stage recorder, concrete control since Dec. 23, 1965. Datum of gage is 2,485.97 ft (757.724 m) above mean sea level. October 1940 to September 1947 water-stage recorder at site 45 ft (13.7 m) upstream at datum 9.55 ft (2.911 m) higher. Nov. 22, 1957, to Sept. 30, 1960, crest-stage gage, Oct. 1, 1960, to Apr. 5, 1961, nonrecording gage, and Apr. 6, 1961 to Sept. 26, 1974 water-stage recorder at site 45 ft (13.7 m) upstream, present datum.

REMARKS.--Records poor prior to Jan. 26 and fair thereafter. Natural flow affected by irrigation development above station and, since Sept. 5, 1961, by storage in Hugh Butler Lake (station 06837390).

AVERAGE DISCHARGE.--23 years, 25.1 ft³/s (0.711 m³/s), 18,180 acre-ft/yr (22.4 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft³/s (850 m³/s) June 22, 1947, gage height, 31.95 ft (9.738 m), present datum, from rating curve extended above 2,500 ft³/s (70.8 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 0.60 ft³/s (0.017 m³/s) Sept. 22, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.-- Flood of June 1, 1935, reached a stage of 33.45 ft (10.196 m), from floodmarks, discharge, 45,000 ft³/s (1,270 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 160 ft³/s (4.53 m³/s) Aug. 25, gage height, 10.06 ft (3.066 m); minimum daily, 3.3 ft³/s (0.093 m³/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	4.6	3.8	4.0	4.4	4.1	4.1	5.2	6.8	62	81	103
2	10	4.6	3.8	4.0	4.4	4.1	4.1	5.2	6.8	63	86	88
3	10	4.6	3.8	4.0	4.4	3.9	4.1	5.1	7.1	63	89	63
4	10	4.6	3.8	4.0	4.4	3.9	4.3	4.2	6.8	63	94	54
5	10	4.6	3.8	4.0	4.4	3.9	4.3	4.3	6.1	63	102	54
6	6.0	4.6	3.8	4.2	4.4	4.1	4.3	4.3	6.4	63	100	54
7	4.0	4.4	3.8	4.2	4.4	4.1	4.4	4.3	6.3	90	91	54
8	3.9	4.4	3.8	4.2	4.4	4.1	5.0	4.3	6.2	107	91	41
9	3.9	4.4	3.8	4.2	4.3	4.1	4.7	4.3	16	107	90	17
10	3.5	4.4	3.8	4.2	4.5	4.1	4.5	4.6	57	107	90	4.8
11	3.3	4.4	3.8	4.2	4.5	4.1	4.5	5.5	54	107	85	4.6
12	3.7	4.4	3.8	4.2	4.5	4.3	4.5	5.5	42	116	92	4.6
13	4.2	4.2	3.8	4.2	4.5	4.3	4.5	6.2	45	116	92	5.7
14	4.2	4.2	3.8	4.2	4.5	4.3	4.7	6.3	54	116	93	5.5
15	4.2	4.2	3.8	4.2	4.5	4.3	4.8	6.3	56	117	92	5.5
16	4.2	4.2	4.0	4.4	4.5	3.9	5.3	28	53	115	92	5.6
17	4.2	4.2	4.0	4.4	4.5	3.9	5.0	63	54	110	108	5.8
18	4.2	4.2	4.0	4.4	4.1	3.9	4.9	43	65	110	136	5.4
19	4.2	4.2	4.0	4.4	4.1	3.9	5.2	42	64	110	136	5.5
20	4.2	4.0	4.0	4.4	4.1	3.9	5.2	43	67	109	136	5.3
21	4.4	4.0	4.0	4.4	4.3	3.9	5.0	46	86	110	135	5.5
22	4.4	4.0	4.0	4.4	4.3	4.1	4.9	37	117	110	135	5.4
23	4.4	4.0	4.0	4.4	4.3	4.2	4.9	36	125	95	135	5.2
24	4.4	4.0	4.0	4.4	4.3	4.0	4.9	21	87	83	134	6.3
25	4.4	4.0	4.0	4.4	4.3	4.1	4.9	8.2	59	85	148	5.6
26	4.4	3.8	4.0	4.4	4.3	4.1	5.2	8.0	57	102	158	5.4
27	4.6	3.8	4.0	4.4	4.3	4.1	5.2	7.1	58	105	158	5.3
28	4.6	3.8	4.0	4.4	4.3	4.1	5.2	7.5	58	97	158	5.4
29	4.6	3.8	4.0	4.4	4.2	4.1	5.2	7.2	59	89	141	5.3
30	4.6	3.8	4.0	4.4	---	4.3	5.2	7.4	60	81	114	5.2
31	4.6	---	4.0	4.4	---	4.2	---	6.8	---	75	103	---
TOTAL	161.3	126.4	121.0	132.4	126.4	126.4	143.0	486.8	1445.5	2946	3495	640.9
MEAN	5.20	4.21	3.90	4.27	4.36	4.08	4.77	15.7	48.2	95.0	113	21.4
MAX	10	4.6	4.0	4.4	4.5	4.3	5.3	63	125	117	158	103
MIN	3.3	3.8	3.8	4.0	4.1	3.9	4.1	4.2	6.1	62	81	4.6
AC-FT	320	251	240	263	251	251	284	966	2870	5840	6930	1270

CAL YR 1975 TOTAL 8489.2 MEAN 23.3 MAX 168 MIN 3.1 AC-FT 16840
WTF YR 1976 TOTAL 9951.1 MEAN 27.2 MAX 158 MIN 3.3 AC-FT 19740

KANSAS RIVER BASIN

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06838000 RED WILLOW CREEK NEAR RED WILLOW, NE

LOCATION.--Lat 40°14'10", long 100°30'00", in NE1/4NE1/4 sec.17, T.3 N., R.28 W., Red Willow County, Hydrologic Unit 10250007, on right bank near downstream side of bridge on U.S. Highways 6 and 34, 0.8 mi (1.3 km) north of Red Willow and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--830 mi² (2,150 km²), approximately, of which about 410 mi² (1,060 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--September 1939 to current year.

REVISED RECORDS.--WSP 1510: 1945(M). WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,398.64 ft (731.105 m) above mean sea level. Prior to May 26, 1945, nonrecording gage at bridge 1.2 mi (1.9 km) upstream at datum 11.16 ft (3.402 m) higher, and May 26, 1945 to Aug. 2, 1974, water-stage recorder on left bank at downstream side of bridge, present datum.

REMARKS.--Records poor. Natural flow affected by irrigation development above station, since Sept. 5, 1961, by storage in Hugh Butler Lake (station 06837390), and since June 1963 by Red Willow Canal which diverts 4.5 mi (7.2 km) above station for irrigation of about 4,150 acres (16.8 km²).

AVERAGE DISCHARGE.--37 years, 31.5 ft³/s (0.892 m³/s), 22,820 acre-ft/yr (28.1 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft³/s (850 m³/s) June 22, 1947, gage height, 18.36 ft (5.596 m), from rating curve extended above 6,800 ft³/s (193 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.33 ft³/s (0.009 m³/s) Sept. 8, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 91 ft³/s (2.58 m³/s) June 23, gage height, 5.17 ft (1.576 m); minimum daily, 4.6 ft³/s (0.13 m³/s) Jan. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	9.5	6.2	9.4	17	8.5	10	10	11	11	32	35
2	7.0	9.5	6.6	6.0	16	8.5	10	9.8	11	10	25	38
3	7.0	9.5	7.2	5.0	16	8.0	10	9.8	11	12	17	24
4	6.7	8.8	7.4	5.4	12	7.5	9.5	9.6	11	35	8.5	15
5	6.4	9.0	8.0	6.2	8.4	8.5	9.3	9.6	11	20	6.7	15
6	6.4	9.0	7.2	5.4	8.4	10	9.3	10	11	13	16	14
7	6.5	9.0	7.6	4.6	9.0	11	9.3	9.9	11	13	11	16
8	6.8	8.6	8.5	4.8	12	11	11	10	10	12	12	25
9	6.8	9.1	10	5.4	13	11	10	12	9.8	12	11	14
10	7.2	9.1	13	5.6	11	10	10	12	8.6	11	10	9.7
11	6.4	9.0	11	6.0	11	11	9.8	11	12	11	10	6.1
12	5.8	8.8	10	7.0	11	9.5	9.6	10	13	11	13	5.3
13	5.5	9.8	10	8.2	10	9.0	9.5	11	14	11	22	5.0
14	6.5	9.5	9.4	9.4	10	11	9.5	12	14	11	28	8.3
15	6.0	9.5	9.0	9.6	10	10	10	12	17	14	28	6.5
16	5.6	9.3	8.6	10	9.8	11	11	13	21	13	21	6.1
17	6.7	9.1	8.0	12	9.6	11	11	14	9.5	12	13	6.2
18	9.0	9.0	8.0	14	9.4	11	10	18	9.0	11	56	5.9
19	9.0	8.4	10	16	9.0	11	10	22	6.6	10	57	5.5
20	8.9	8.0	11	16	9.5	11	10	20	6.1	9.4	59	5.3
21	9.0	7.5	11	18	8.0	10	10	26	10	11	61	5.2
22	9.1	7.0	12	20	8.5	11	10	28	28	15	62	5.1
23	9.2	7.8	11	16	9.2	11	10	21	68	26	62	5.1
24	9.3	7.2	11	9.2	9.7	11	10	20	68	11	61	5.6
25	9.0	6.8	11	8.4	11	11	10	17	20	8.5	62	9.4
26	9.1	6.0	10	8.0	7.8	11	9.8	15	14	9.6	86	6.3
27	9.3	5.4	10	12	8.0	11	11	14	14	15	84	5.6
28	9.1	5.6	10	15	8.8	11	12	13	14	8.6	82	11
29	8.9	5.8	10	15	8.5	11	11	12	12	6.8	80	7.1
30	9.5	5.8	11	16	---	10	11	11	11	13	53	6.4
31	9.9	---	11	17	---	10	---	11	---	11	33	---
TOTAL	238.5	246.4	294.7	320.6	301.6	317.5	303.6	433.7	486.6	397.9	1182.2	332.7
MEAN	7.69	8.21	9.51	10.3	10.4	10.2	10.1	14.0	16.2	12.8	38.1	11.1
MAX	9.9	9.8	13	20	17	11	12	28	68	35	86	38
MIN	5.5	5.4	6.2	4.6	7.8	7.5	9.3	9.6	6.1	6.8	6.7	5.0
AC-FT	473	489	585	636	598	630	602	860	965	789	2340	660

CAL YR 1975 TOTAL 5074.1 MEAN 13.9 MAX 103 MIN 1.0 AC-FT 10060
WTR YR 1976 TOTAL 4856.0 MEAN 13.3 MAX 86 MIN 4.6 AC-FT 9630

KANSAS RIVER BASIN

06841000 MEDICINE CREEK ABOVE HARRY STRUNK LAKE, NE

LOCATION.--Lat 40°30'10", long 100°19'20", in SW1/4 sec.7, T.6 N., R.26 W., Frontier County, Hydrologic Unit 10250008, on right bank 0.3 mi (0.5 km) downstream from top of Harry Strunk Lake flood-control pool, 2.5 mi (4.0 km) upstream from top of irrigation pool, 3.8 mi (6.1 km) southeast of Stockville, and 13.5 mi (21.7 km) upstream from Medicine Creek Dam.

DRAINAGE AREA.--770 mi² (1,990 km²), approximately, of which about 530 mi² (1,370 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--January 1950 to current year. Prior to October 1950, published as "above Medicine Creek Reservoir."

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Concrete control since November 1950. Datum of gage is 2,380.94 ft (725.711 m) above mean sea level (Bureau of Reclamation bench mark).

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation development above station.

AVERAGE DISCHARGE.--26 years, 68.5 ft³/s (1.940 m³/s), 49,630 acre-ft/yr (61.2 hm³/yr); median of yearly mean discharges, 59 ft³/s (1.671 m³/s), 42,700 acre-ft/yr (52.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft³/s (329 m³/s) June 21, 1967, gage height, 20.05 ft (6.111 m); minimum daily, 13 ft³/s (0.37 m³/s) Aug. 25, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1874, 24.4 ft (7.44 m) June 22, 1947, from floodmark (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 331 ft³/s (9.37 m³/s) June 24, gage height, 5.85 ft (1.783 m), no peak above base of 1,200 ft³/s (34.0 m³/s); minimum daily, 13 ft³/s (0.37 m³/s) Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	47	56	62	66	61	55	65	51	35	32	21
2	37	47	65	55	66	60	57	61	51	35	30	19
3	37	47	75	45	66	59	55	58	57	44	29	20
4	37	47	80	38	66	57	54	57	56	69	29	20
5	37	47	85	38	60	53	54	57	50	52	30	18
6	35	48	80	35	55	62	56	56	47	52	86	18
7	35	47	75	33	66	64	58	55	46	53	59	19
8	34	47	70	33	75	68	66	54	44	48	42	23
9	36	49	63	35	66	65	68	54	44	41	36	22
10	38	48	63	40	64	66	67	54	42	36	33	23
11	38	48	65	45	63	66	62	54	41	27	29	22
12	39	46	65	50	63	66	59	55	42	20	29	24
13	40	48	63	55	63	66	59	56	40	19	44	31
14	40	46	63	65	63	66	59	53	38	77	34	66
15	41	46	45	75	63	66	60	51	36	66	32	69
16	41	47	30	80	63	65	64	49	35	34	31	40
17	42	49	33	85	62	65	75	46	34	27	29	37
18	42	50	42	85	62	65	82	46	34	23	25	35
19	43	50	50	80	62	65	77	43	33	23	22	35
20	44	43	60	75	61	64	73	46	34	23	16	34
21	44	35	65	75	61	64	66	48	33	24	16	33
22	45	30	65	75	60	60	63	123	33	32	14	33
23	46	30	63	72	61	58	60	110	90	34	14	32
24	46	30	63	72	62	59	59	117	185	34	14	32
25	47	30	60	69	62	60	57	101	118	34	13	35
26	47	30	60	62	62	57	56	82	70	30	16	40
27	47	30	58	60	62	56	57	73	54	28	15	37
28	47	35	59	65	62	57	60	66	47	27	19	36
29	47	40	61	65	62	60	64	53	42	25	16	35
30	47	47	62	64	---	57	66	52	39	37	18	34
31	47	---	62	65	---	56	---	52	---	32	16	---
TOTAL	1282	1284	1906	1853	1829	1913	1868	1947	1566	1141	868	943
MEAN	41.4	42.8	61.5	59.8	63.1	61.7	62.3	62.8	52.2	36.8	28.0	31.4
MAX	47	50	85	85	75	68	82	123	185	77	86	69
MIN	34	30	30	33	55	53	54	43	33	19	13	18
AC-FT	2540	2550	3780	3680	3630	3790	3710	3860	3110	2260	1720	1870
CAL YR 1975	TOTAL	21551	MEAN	59.0	MAX	1020	MIN	18	AC-FT	42750		
WTR YR 1976	TOTAL	18400	MEAN	50.3	MAX	185	MIN	13	AC-FT	36500		

06842000 HARRY STRUNK LAKE NEAR CAMBRIDGE, NE

LOCATION.--Lat 40°22'40", long 100°13'00", in NE1/4 sec.25, T.5 N., R.26 W., Frontier County, Hydrologic Unit 10250008, near right bank in control house at outlet tube of Medicine Creek Dam on Medicine Creek, 7 mi (11 km) northwest of Cambridge.

DRAINAGE AREA.--880 mi² (2,280 km²), approximately, of which about 640 mi² (1,660 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--August 1949 to current year.

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Aug. 18, 1960, nonrecording gage at present datum.

REMARKS.--Reservoir is formed by earthfill dam; storage began Aug. 8, 1949. Capacity, 32,230 acre-ft (39.7 hm³) between elevation 2,335.0 ft (712 m), sill of outlet gates, and 2,366.1 ft (721 m), top of storage pool and crest of slot in spillway. Top of flood-control pool and crest of main spillway at elevation 2,386.2 ft (727 m), capacity, 89,310 acre-ft (0.110 km³). Top of superstorage flood-control pool at elevation 2,400.0 ft (732 m), capacity, 147,400 acre-ft (0.182 km³). Maximum water-surface elevation, 2,408.9 ft (734 m), 196,000 acre-ft (0.242 km³). Dead storage, 4,910 acre-ft (6.05 hm³). Figures given herein represent total contents. Water used for irrigation in Frenchman-Cambridge irrigation project.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 55,750 acre-ft (68.7 hm³) Mar. 23, 1960, elevation, 2,374.10 ft (723.626 m); minimum since operation of reservoir began, 9,710 acre-ft (12.0 hm³) Sept. 9, 1976, elevation 2,343.23 ft (714.217 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 38,910 acre-ft (48.0 hm³) Apr. 21-22, elevation, 2,367.04 ft (721.474 m); minimum, 9,710 acre-ft (12.0 hm³) Sept. 9, elevation, 2,343.23 ft (714.217 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

2,340	7,600	2,360	27,100
2,345	11,000	2,365	35,140
2,350	15,250	2,370	44,890
2,355	20,550		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19980	21990	24720	28090	31200	34110	37080	37650	38590	34200	19180	9990
2	20040	22080	24810	28110	31310	34220	37190	37480	38600	33540	18940	9950
3	20110	22170	24920	28110	31390	34250	37190	37360	38550	33070	18660	9950
4	20180	22230	25050	28210	31470	34430	37230	37270	38510	32690	18320	9940
5	20240	22300	25140	28340	31520	34510	37380	37310	38490	32250	17950	9860
6	20310	22400	25260	28400	31570	34620	37510	37250	38450	31860	17750	9790
7	20350	22500	25370	28450	31710	34720	37870	37230	38420	31350	17580	9780
8	20420	22570	25490	28550	31850	34770	37930	37250	38400	30770	17390	9730
9	20420	22640	25610	28640	31950	34900	38100	37310	38380	30230	17080	9720
10	20490	22730	25750	28730	32080	34970	38190	37400	38380	29670	16670	9760
11	20560	22810	25840	28810	32180	35120	38230	37500	38270	29070	16130	9790
12	20630	22840	25980	28890	32330	35230	38270	37510	38250	28370	15670	9830
13	20740	22890	26150	28980	32370	35360	38320	37510	38170	27680	15200	9910
14	20750	23010	26220	29090	32500	35410	38400	37510	38000	27010	14790	10090
15	20770	23080	26300	29170	32640	35540	38490	37630	37800	26460	14360	10220
16	20850	23180	26380	29260	32720	35720	38570	37630	37630	25840	13950	10300
17	20900	23260	26420	29380	32870	35870	38660	37610	37380	25230	13480	10390
18	20970	23410	26500	29530	32990	35940	38700	37590	37100	24570	12990	10480
19	21040	23790	26590	29610	33020	36100	38790	37590	36840	23890	12520	10540
20	21130	23830	26670	29750	33180	36120	38870	37610	36570	23170	12090	10640
21	21200	23870	26770	29860	33270	36210	38910	37700	36230	22600	11620	10700
22	21330	23910	26890	30030	33350	36250	38810	37850	35650	22190	11160	10770
23	21330	23950	26960	30140	33430	36460	38680	37870	35600	21840	10830	10820
24	21380	24050	27060	30270	33560	36480	38470	37910	35700	21550	10500	10900
25	21430	24170	27200	30400	33680	36660	38210	38040	35920	21230	10230	10960
26	21520	24220	27310	30460	33800	36700	37980	38150	35980	20810	10060	11070
27	21630	24310	27440	30540	33940	36720	37970	38400	35940	20490	10010	11090
28	21670	24430	27540	30690	34010	36790	37970	38470	35740	20270	10010	11150
29	21740	24530	27660	30850	34010	36910	37850	38600	35380	19920	10020	11230
30	21840	24610	27780	30990	---	36930	37740	38600	34810	19660	10030	11300
31	21950	---	27910	31090	---	36970	---	38590	---	19380	10080	---
MAX	21950	24610	27910	31090	34010	36970	38910	38600	38600	34200	19180	11300
MIN	19980	21990	24720	28090	31200	34110	37080	37230	34810	19380	10010	9720
†	2356.16	2358.22	2360.55	2362.60	2364.35	2366.01	2366.42	2366.87	2364.81	2353.99	2343.75	2345.38
‡	+1990	+2660	+3300	+3180	+2920	+2960	+770	+850	-3780	-15430	-9300	+1220
CAL YR 1975	MAX	41910	MIN	18710	‡+4650							
WTR YR 1976	MAX	38910	MIN	9720	‡+8660							

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

KANSAS RIVER BASIN

06842500 MEDICINE CREEK BELOW HARRY STRUNK LAKE, NE

LOCATION.--Lat 40°22'20", long. 100°13'20", at center of sec.25, T.5 N., R.26 W., Frontier County, Hydrologic Unit 10250008, on right bank 0.5 mi (0.8 km) downstream from Medicine Creek Dam and 6.5 mi (10.5 km) northwest of Cambridge.

DRAINAGE AREA.--880 mi² (2,280 km²), approximately, of which about 640 mi² (1,660 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1949 to current year. Prior to October 1950, published as "below Medicine Creek Dam." Monthly discharge only for some periods, published in WSP 1730.

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Concrete control since August 1950. Datum of gage is 2,295.26 ft (699.595 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Apr. 24, 1950, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum.

REMARKS.--Records good. Flow regulated by Harry Strunk Lake (station 06842000).

AVERAGE DISCHARGE.--27 years, 65.0 ft³/s (1.841 m³/s), 47,090 acre-ft/yr (58.1 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,300 ft³/s (36.8 m³/s) Mar. 23, 1960, gage height, 5.97 ft (1.820 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Nov. 13, 1952, Sept. 19, 1963, Sept. 27-29, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 430 ft³/s (12.2 m³/s) July 14, gage height, 3.16 ft (0.963 m); minimum daily, 0.27 ft³/s (0.008 m³/s) Sept. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.0	2.3	2.6	2.5	2.6	3.0	109	44	319	149	69
2	1.6	2.1	2.6	2.4	2.5	2.6	2.9	109	44	373	143	39
3	1.7	2.0	2.4	2.4	2.5	2.6	3.0	107	44	348	159	8.0
4	1.8	2.1	2.4	2.4	2.4	2.8	3.1	67	43	323	206	43
5	1.9	2.1	2.3	2.1	2.4	2.6	3.4	46	42	280	228	45
6	1.9	2.1	2.3	.60	2.4	2.7	4.2	46	41	236	185	57
7	2.0	2.1	2.2	.65	2.4	2.7	7.3	31	40	292	147	65
8	2.0	2.1	2.3	2.3	2.4	2.6	15	20	39	324	141	39
9	2.0	2.1	2.3	2.4	2.4	2.6	16	20	39	298	185	9.0
10	1.9	2.1	2.4	2.4	2.4	2.6	18	21	38	310	253	.49
11	1.9	2.0	2.3	2.4	2.4	2.7	19	21	37	310	299	.37
12	2.0	2.0	2.3	2.4	2.4	2.5	20	23	36	363	284	.34
13	2.3	2.1	2.4	2.4	2.4	2.6	22	24	35	379	275	.40
14	2.5	2.1	2.3	2.4	2.4	2.6	23	24	51	406	270	.37
15	2.7	2.1	2.3	2.4	2.4	2.7	25	25	111	395	263	.91
16	2.5	2.1	2.3	2.4	2.4	2.6	29	26	105	354	261	.49
17	2.6	2.1	2.3	2.5	2.5	2.6	31	25	124	345	286	.46
18	2.6	2.1	2.3	2.5	2.6	2.6	33	26	152	353	288	.39
19	2.6	2.3	2.4	2.4	2.8	2.6	35	26	164	367	264	.36
20	2.4	2.3	2.4	2.4	2.8	2.6	39	26	168	383	252	.31
21	2.3	2.1	2.4	2.4	2.3	2.6	38	27	210	360	283	.30
22	1.9	2.1	2.4	2.5	2.4	2.6	80	33	306	286	265	.34
23	2.1	2.2	2.4	2.5	2.4	2.6	132	38	277	208	193	.28
24	2.1	2.3	2.4	2.4	2.6	4.3	129	41	65	166	181	.34
25	2.0	2.4	2.4	2.5	2.6	3.1	123	44	9.0	183	162	.39
26	1.9	2.4	2.4	2.4	2.6	2.9	119	45	54	225	103	.33
27	2.0	2.4	2.4	2.4	2.6	2.9	83	46	66	211	38	.28
28	1.9	2.4	2.5	2.5	2.6	3.0	92	46	145	147	6.8	.27
29	1.9	2.4	2.4	2.5	2.6	3.2	114	46	178	200	13	.27
30	2.0	2.3	2.4	2.5	---	3.0	112	45	255	168	6.5	.29
31	2.0	---	2.5	2.5	---	3.0	---	44	---	148	13	---
TOTAL	64.6	65.0	73.4	71.55	72.1	85.7	1373.9	1277	2962.0	9060	5802.3	381.98
MEAN	2.08	2.17	2.37	2.31	2.49	2.76	45.8	41.2	98.7	292	187	12.7
MAX	2.7	2.4	2.6	2.6	2.8	4.3	132	109	306	406	299	69
MIN	1.6	2.0	2.2	.60	2.3	2.5	2.9	20	9.0	147	6.5	.27
AC-FT	128	129	146	142	143	170	2730	2530	5880	17970	11510	758

CAL YR 1975 TOTAL 17031.58 MEAN 46.7 MAX 455 MIN .42 AC-FT 33780
WTR YR 1976 TOTAL 21289.53 MEAN 58.2 MAX 406 MIN .27 AC-FT 42230

06843500 REPUBLICAN RIVER AT CAMBRIDGE, NE

LOCATION.--Lat 40°17'05", long 100°08'35", in NW1/4SE1/4 sec.28, T.4 N., R.25 W., Furnas County, Hydrologic Unit 10250004, on left bank 400 ft (122 m) south of U.S. Highways 6 and 34, 0.5 mi (0.8 km) downstream from Medicine Creek, 1 mi (2 km) east of Cambridge, and 1.3 mi (2.1 km) upstream from Cambridge diversion dam.

DRAINAGE AREA.--14,520 mi² (37,600 km²), approximately, of which about 7,810 mi² (20,200 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--September 1945 to current year.

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,239.07 ft (682.469 m) above mean sea level. Prior to July 13, 1948, nonrecording gage at site 150 ft (46 m) upstream at same datum and July 13, 1948, to Sept. 25, 1950, at present site and datum.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation development above station and since 1949 by regulation from upstream reservoirs.

AVERAGE DISCHARGE.--31 years, 335 ft³/s (9.487 m³/s), 242,700 acre-ft/yr (0.299 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 160,000 ft³/s (4,530 m³/s) June 22, 1947, gage height, 16.7 ft (5.09 m), from floodmarks, from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 6.4 ft³/s (0.18 m³/s) Aug. 14, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1826, 17.6 ft (5.36 m) May 31 to June 1, 1935, from information by local resident, discharge, about 280,000 ft³/s (7,930 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,710 ft³/s (48.4 m³/s) June 23, gage height, 6.76 ft (2.060 m); minimum daily, 32 ft³/s (0.91 m³/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	104	80	120	230	147	142	240	169	357	283	249
2	80	107	100	80	220	154	146	233	162	427	323	221
3	79	108	130	60	193	151	147	222	151	491	317	170
4	79	108	170	60	179	120	141	208	143	470	317	157
5	76	107	190	90	104	110	137	163	135	511	330	124
6	75	109	185	80	116	180	147	152	135	440	381	91
7	72	108	180	70	191	213	147	152	130	400	289	96
8	68	110	180	80	224	209	178	129	122	433	254	141
9	68	117	175	85	221	193	189	121	96	385	257	86
10	70	111	190	90	225	184	189	114	83	367	301	48
11	74	109	210	95	192	175	174	100	74	368	348	37
12	77	104	225	100	176	167	167	87	75	391	357	32
13	76	105	215	110	171	163	162	88	78	408	347	38
14	71	114	150	125	167	168	156	112	72	423	380	40
15	74	115	85	150	165	168	166	108	127	451	379	66
16	76	114	80	180	162	168	202	107	140	438	359	97
17	80	112	70	210	162	162	205	105	161	397	351	102
18	81	113	60	240	160	156	192	111	196	406	358	85
19	84	110	80	255	157	160	187	117	216	398	368	64
20	83	105	100	235	158	157	205	111	213	405	332	49
21	86	90	125	215	160	154	199	114	231	466	356	42
22	90	75	150	215	163	151	197	767	300	456	364	39
23	93	60	155	220	163	152	278	446	1070	398	339	33
24	95	50	170	220	162	148	263	300	797	326	315	44
25	97	45	185	175	159	147	240	247	374	298	326	77
26	102	40	205	130	156	144	233	224	239	352	334	81
27	101	40	220	145	154	139	229	216	198	387	295	67
28	104	45	210	165	152	136	212	207	244	437	243	61
29	105	55	200	190	149	145	255	207	276	371	252	68
30	103	65	170	220	---	157	251	193	298	312	255	59
31	101	---	160	240	---	146	---	178	---	275	300	---
TOTAL	2600	2755	4805	4650	4991	4924	5736	5879	6705	12444	10010	2564
MEAN	83.9	91.8	155	150	172	159	191	190	224	401	323	85.5
MAX	105	117	225	255	230	213	278	767	1070	511	381	249
MIN	68	40	60	60	104	110	137	87	72	275	243	32
AC-FT	5160	5460	9530	9220	9900	9770	11380	11660	13300	24680	19850	5090
CAL YR 1975	TOTAL	69838	MEAN 191	MAX 1740	MIN 18	AC-FT 138500						
WTE YF 1976	TOTAL	68063	MEAN 186	MAX 1070	MIN 32	AC-FT 135000						

KANSAS RIVER BASIN

06844500 REPUBLICAN RIVER NEAR ORLEANS, NE

LOCATION.--Lat 40°07'53", long 99°30'08", in NE1/4NE1/4 sec.19, T.2 N., R.19 W., Harlan County, Hydrologic Unit 10250009, on right bank 18 ft (5 m) downstream from bridge on State Highway 89, 200 ft (61 m) downstream from Burlington Northern Inc. bridge, 2 mi (3 km) west of Orleans, 2.8 mi (4.5 km) upstream from Sappa Creek, and 23 mi (37 km) upstream from Harlan County Dam.

DRAINAGE AREA.--15,640 mi² (40,500 km²), approximately, of which about 8,910 mi² (23,100 km²) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1947 to current year.

REVISED RECORDS.-- WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,972.57 ft (601.239 m) above mean sea level. Prior to June 2, 1948, nonrecording gage at present site and datum.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow affected by irrigation development above station and regulation by upstream reservoirs.

AVERAGE DISCHARGE.--29 years, 328 ft³/s (9.289 m³/s), 237,600 acre-ft/yr (0.293 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,600 ft³/s (1,150 m³/s) June 22, 1948, gage height, 11.25 ft (3.429 m), from rating curve extended above 29,000 ft³/s (821 m³/s); maximum gage height, 12.60 ft (3.840 m) Mar. 22, 1960, backwater from ice; no flow at times in 1952-57, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.-- Maximum flood since at least 1826 occurred June 1, 1935. Flood of June 23, 1947, reached a stage of 14.00 ft (4.267 m), from floodmark (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,430 ft³/s (68.8 m³/s) Apr. 9, gage height, 7.35 ft (2.240 m); minimum daily, 5.5 ft³/s (0.16 m³/s) Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	118	110	215	345	204	207	294	232	87	78	12
2	80	116	145	180	320	204	200	288	216	83	58	46
3	81	119	175	145	300	200	193	279	204	87	53	29
4	78	120	210	110	270	208	186	272	190	116	46	24
5	75	124	230	110	250	150	181	269	177	133	47	21
6	74	124	240	110	240	175	187	241	167	127	36	20
7	74	127	190	100	260	222	189	217	151	166	34	11
8	70	127	150	105	290	267	281	210	148	130	66	21
9	70	134	165	120	330	252	1520	203	138	83	58	24
10	69	137	180	140	360	234	570	184	132	70	36	44
11	72	138	200	160	365	226	378	178	114	54	23	53
12	75	137	220	180	330	216	298	171	90	43	27	48
13	79	137	240	200	283	209	264	154	63	32	26	40
14	83	140	215	220	259	206	243	139	56	28	29	36
15	85	145	190	245	246	204	233	131	51	26	30	38
16	87	153	140	270	236	204	271	149	45	26	41	41
17	90	157	110	300	227	200	353	146	43	47	31	59
18	94	155	100	320	222	196	286	142	43	48	18	71
19	97	155	90	330	217	197	255	138	40	27	15	74
20	98	140	100	340	215	197	247	137	55	23	13	66
21	101	115	110	345	215	195	236	144	64	41	12	58
22	103	90	130	350	212	193	230	206	68	48	12	52
23	106	75	150	350	213	193	215	464	100	77	11	49
24	110	60	175	345	219	189	228	601	466	92	11	48
25	112	50	200	315	217	189	331	422	726	74	10	57
26	112	47	220	275	215	189	292	345	428	45	9.5	59
27	114	50	240	250	214	189	261	310	292	32	9.0	63
28	113	55	250	255	213	189	275	285	211	57	8.5	65
29	112	65	265	270	208	197	264	264	153	73	7.8	61
30	115	80	265	290	---	192	282	249	105	106	7.1	58
31	116	---	240	320	---	203	---	246	---	94	5.5	---
TOTAL	2825	3390	5645	7265	7491	6289	9156	7478	4968	2175	868.4	1348
MEAN	91.1	113	182	234	258	203	305	241	166	70.2	28.0	44.9
MAX	116	157	265	350	365	267	1520	601	726	166	78	74
MIN	69	47	90	100	208	150	181	131	40	23	5.5	11
AC-FT	5600	6720	11200	14410	14860	12470	18160	14830	9850	4310	1720	2670
CAL YR 1975	TOTAL	84134.0	MEAN	231	MAX	4790	MIN	41	AC-FT	166900		
WTR YR 1976	TOTAL	58898.4	MEAN	161	MAX	1520	MIN	5.5	AC-FT	116800		

06844500 REPUBLICAN RIVER NEAR ORLEANS, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1969 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN 5 DAY DEMAND (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT											
01...	1545	80	720	8.1	16.0	45	10.4	--	--	--	--
14...	1000	40	880	8.1	12.0	20	10.2	4.9	2000	380	23
NOV											
10...	1000	134	760	8.0	4.0	30	12.8	--	--	--	--
24...	1030	100	810	7.7	.0	15	14.1	25	4000	450	21
DEC											
22...	1100	120	860	7.9	.0	12	12.3	6.0	120	110	21
JAN											
05...	1200	110	900	7.8	.0	10	12.1	--	--	--	--
20...	1345	200	700	7.7	.0	20	11.9	4.2	500	750	17
FEB											
17...	1045	170	750	7.9	4.0	55	11.1	5.0	900	200	19
MAR											
16...	1030	190	800	7.9	3.0	35	12.1	5.0	720	120	18
APR											
26...	1015	170	620	7.8	13.0	120	9.4	6.0	60000	3100	15
MAY											
24...	1045	490	380	7.5	16.0	1000	7.8	5.6	200000	6400	10
JUN											
21...	0945	25	740	8.4	19.0	30	8.6	16	3600	750	17
JUL											
19...	1045	28	630	8.3	24.0	45	8.4	12	5600	580	15
AUG											
03...	1045	55	580	8.1	20.0	65	9.4	--	--	--	--
16...	0945	49	650	8.3	21.0	70	8.8	5.6	15000	1600	17
30...	1030	7.8	670	8.2	17.0	20	9.0	--	--	--	--
SEP											
13...	1000	41	640	8.2	19.0	40	9.2	--	--	--	--
27...	1000	47	600	8.3	13.0	25	10.1	9.4	80	1900	24

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT										
01...	--	--	--	--	--	--	--	--	--	--
14...	--	.66	52.2	.43	.10	1.3	1.4	1.8	.29	.20
NOV										
10...	--	--	--	--	--	--	--	--	--	--
24...	462	.63	125	1.5	.14	1.6	1.7	3.2	.24	.20
DEC										
22...	490	.67	159	2.1	.12	.70	.82	2.9	.23	.20
JAN										
05...	--	--	--	--	--	--	--	--	--	--
20...	--	.53	212	2.0	.15	.80	.95	3.0	.23	.19
FEB										
17...	467	.64	214	2.0	.03	.97	1.0	3.0	.33	.18
MAR										
16...	448	.61	230	1.9	.13	.97	1.1	3.0	.65	.18
APR										
26...	369	.50	169	.63	.04	1.9	1.9	2.5	.42	.12
MAY										
24...	--	.35	337	1.4	.14	8.9	9.0	10	2.7	.26
JUN										
21...	415	.56	28.0	.02	.12	.83	.95	.97	.29	.11
JUL										
19...	--	.51	28.3	.02	.00	.00	.00	.02	.28	.07
AUG										
03...	--	--	--	--	--	--	--	--	--	--
16...	367	.50	48.6	.08	.01	1.9	1.9	2.0	.40	.03
30...	--	--	--	--	--	--	--	--	--	--
SEP										
13...	--	--	--	--	--	--	--	--	--	--
27...	423	.58	53.7	.08	.01	1.8	1.8	1.9	.25	.19

KANSAS RIVER BASIN

06844500 REPUBLICAN RIVER NEAR ORLEANS, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HC03) (MG/L) (00440)
OCT 14...	1000	17	290	0	73	25	48	1.2	20	360
JAN 20...	1345	10	230	0	63	18	34	1.0	14	295
MAY 24...	1045	26	130	0	32	11	21	.8	13	230
JUL 19...	1045	25	210	0	51	21	35	1.0	18	280

DATE	CAR- BONATE (C03) (MG/L) (00445)	ALKA- LINITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (MG/L) (01000)	DIS- SOLVED BORON (B) (MG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (MG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (MG/L) (01030)
OCT 14...	0	295	78	.8	37	483	--	180	--	--
JAN 20...	0	242	63	.6	37	392	4	100	1	0
MAY 24...	0	189	34	.5	20	255	--	70	--	--
JUL 19...	0	230	67	.7	29	375	13	110	1	0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
OCT 14...	--	50	--	10	--	--	--	--	--	--
JAN 20...	4	30	3	10	--	--	.2	3	0	10
MAY 24...	--	140	--	80	--	--	--	--	--	--
JUL 19...	3	70	7	20	.2	.0	.2	1	0	10

06846500 BEAVER CREEK AT CEDAR BLUFFS, KS

LOCATION.--Lat 39°59'06", long 100°33'35", in NW1/4NE1/4 sec.10, T.1 S., R.29 W., Decatur County, Hydrologic Unit 10250014, on right bank at downstream side of bridge on U.S. Highway 83, 0.2 mi (0.3 km) north of Cedar Bluffs, 1.0 mi (1.6 km) south of Kansas-Nebraska State line, and at mi 107.4 (172.8 km).

DRAINAGE AREA.--1,618 mi² (4,191 km²), of which 294 mi² (761 km²) is probably noncontributing.

PERIOD OF RECORD.--October 1945 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1510: 1947, 1950-51.

GAGE.--Water-stage recorder. Datum of gage is 2,520.33 ft (768.197 m) above mean sea level. Prior to Aug. 19, 1971, at site 0.1 mi (0.2 km) upstream at same datum. Aug. 19, 1971, to July 12, 1972, at site 0.8 mi (1.3 km) downstream at datum 5.00 ft (1.524 m) lower.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--31 years, 21.2 ft³/s (0.600 m³/s), 15,360 acre-ft/yr (18.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,940 ft³/s (225 m³/s) June 11, 1960, gage height, 18.71 ft (5.703 m); no flow at times in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1944 reached a stage of 18.16 ft (5.535 m), from floodmark.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 235 ft³/s (6.66 m³/s) May 22, gage height, 7.38 ft (2.249 m), no peak above base of 300 ft³/s (8.50 m³/s); no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	.05	0		
2							0	0	.06	0		
3							0	0	0	0		
4							0	0	0	0		
5							0	0	0	0		
6							0	0	0	0		
7							0	0	0	0		
8							0	0	0	0		
9							27	0	0	0		
10							13	0	0	0		
11							3.6	0	0	0		
12							.55	0	0	0		
13							.01	0	0	0		
14							0	0	0	0		
15							0	0	0	10		
16							0	0	0	19		
17							0	0	0	8.0		
18							0	0	0	1.7		
19							0	0	0	0		
20							0	0	0	0		
21							0	0	0	0		
22							0	117	0	.08		
23							0	67	0	.06		
24							0	24	0	.01		
25							0	11	0	0		
26							0	4.0	0	0		
27							0	.38	0	.08		
28							0	.01	0	0		
29							0	.07	0	0		
30							0	.20	0	0		
31		---			---		---	.03	---	0		---
TOTAL	0	0	0	0	0	0	44.16	223.69	.11	38.93	0	0
MEAN	0	0	0	0	0	0	1.47	7.22	.004	1.26	0	0
MAX	0	0	0	0	0	0	27	117	.06	19	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	88	444	.2	77	0	0
CAI YR 1975	TOTAL	3684.16	MEAN	10.1	MAX	303	MIN	0	AC-FT	7310		
WTF YR 1976	TOTAL	306.89	MEAN	.84	MAX	117	MIN	0	AC-FT	609		

KANSAS RIVER BASIN

06847000 BEAVER CREEK NEAR BEAVER CITY, NE

LOCATION.--Lat 40°07'12", long 99°53'35", in SW1/4SW1/4 sec.23, T.2 N., R.23 W., Furnas County, Hydrologic Unit 10250014, on left bank 400 ft (122 m) downstream from bridge on U.S. Highway 283, 3.5 mi (5.6 km) west of Beaver City, and at mi 24.7 (39.7 km).

DRAINAGE AREA.--1,950 mi² (5,050 km²), approximately, of which about 1,650 mi² (4,270 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1936 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1340: 1937-38(M), 1939, 1940-41(M), 1943(M). WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,162.96 ft (659.270 m) above mean sea level. Prior to Aug. 13, 1947, nonrecording gages and Aug. 13, 1947, to Nov. 14, 1957, water-stage recorder, at site 400 ft (120 m) upstream at datum 2.0 ft (0.61 m) higher. Nov. 15, 1957, to Sept. 22, 1958, at site 3.6 mi (5.8 km) upstream at different datum.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--40 years, 27.2 ft³/s (0.770 m³/s), 19,710 acre-ft/yr (24.3 hm³/yr); median of yearly mean discharges, 20 ft³/s (0.566 m³/s), 14,500 acre-ft/yr (17.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,800 ft³/s (108 m³/s) July 19, 1944, gage height, 13.8 ft (4.21 m), from floodmark, site and datum then in use; no flow at times in 1937-40, 1946, 1953-57, 1959, 1969-74, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41 ft³/s (1.16 m³/s) Apr. 8, gage height, 3.61 ft (1.100 m), no peak above base of 400 ft³/s (11.3 m³/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	.36	.80	.90	1.1	1.0	1.1	1.6	.95	.40	.23	.15
2	.36	.34	1.0	.75	1.1	.98	1.1	1.4	.99	.43	.24	.08
3	.28	.32	1.1	.50	1.1	.93	1.1	1.3	.99	.55	.31	.02
4	.25	.36	.95	.38	.95	.85	1.1	1.4	.89	.54	.18	0
5	.20	.40	.85	.43	.70	.80	1.1	1.4	.83	.46	.14	0
6	.18	.40	.75	.35	.85	.90	1.2	1.4	.80	.42	.14	0
7	.18	.44	.72	.32	1.2	1.1	9.0	1.3	.79	.40	.13	.01
8	.03	.50	.70	.30	1.5	1.2	19	1.4	.81	.35	.09	.12
9	0	.63	.80	.34	1.4	1.1	4.1	1.3	.73	.29	.10	.04
10	0	.74	.95	.40	1.4	1.1	1.8	1.1	.73	.21	.15	.01
11	.36	.63	1.1	.50	1.4	1.1	1.4	1.0	.63	.19	.13	0
12	.11	.62	1.0	.65	1.5	1.1	1.4	1.0	.58	.18	.07	.01
13	.14	.67	1.0	.80	1.4	1.1	1.4	1.0	.58	.16	.05	.05
14	.19	.71	1.0	.90	1.4	1.1	1.3	1.1	.58	.15	.05	.06
15	.19	.78	.95	1.0	1.4	1.1	2.6	1.0	.62	.17	.05	.14
16	.20	.74	.80	1.1	1.3	1.1	8.0	.96	.63	.16	.03	.10
17	.20	.73	.70	1.2	1.1	1.1	3.6	1.0	.66	.14	0	.09
18	.20	.77	.60	1.1	1.0	.94	1.8	1.0	.61	.13	0	.08
19	.20	.75	.65	1.0	1.1	1.0	1.4	1.0	.57	.10	0	.06
20	.23	.75	.70	.90	1.0	1.1	3.0	.97	.57	.14	0	.06
21	.20	.70	.70	.90	1.4	1.2	2.1	1.4	.54	.44	0	.05
22	.20	.68	.73	1.0	1.1	1.1	1.7	4.9	.50	.37	0	.04
23	.52	.75	.76	1.1	1.2	1.2	1.5	13	.82	.28	0	.04
24	.52	.80	.80	1.1	1.2	1.2	1.5	16	.88	.20	0	.07
25	.46	.75	.90	1.0	1.1	1.2	1.4	9.3	1.5	.19	0	.13
26	.52	.70	1.0	.80	1.2	1.1	1.5	2.4	.69	.15	0	.08
27	.52	.65	1.0	.90	1.1	.95	1.8	1.4	.52	.22	0	.05
28	.51	.60	1.1	1.2	1.1	1.1	1.8	1.2	.48	.41	0	.05
29	.48	.60	1.2	1.5	1.0	1.1	1.7	1.1	.44	.26	0	.06
30	.52	.65	1.0	1.7	---	1.0	1.7	1.0	.39	.16	0	.06
31	.39	---	.93	1.3	---	1.1	---	.99	---	.17	.01	---
TOTAL	8.80	18.52	27.24	26.32	34.30	32.95	83.2	76.32	21.30	8.42	2.10	1.71
MEAN	.28	.62	.88	.85	1.18	1.06	2.77	2.46	.71	.27	.068	.057
MAX	.52	.80	1.2	1.7	1.5	1.2	19	16	1.5	.55	.31	.15
MIN	0	.32	.60	.30	.70	.80	1.1	.96	.39	.10	0	0
AC-FT	17	37	54	52	68	65	165	151	42	17	4.2	3.4
CAI YR 1975	TOTAL	2582.11	MEAN	7.07	MAX	162	MIN	0	AC-FT	5120		
WTR YR 1976	TOTAL	341.18	MEAN	.93	MAX	19	MIN	0	AC-FT	677		

KANSAS RIVER BASIN

283

06847500 SAPPA CREEK NEAR STAMFORD, NE

LOCATION.--Lat 40°07'53", long 99°33'15", in NW1/4NW1/4 sec.23, T.2 N., R.20 W., Harlan County, Hydrologic Unit 10250011, on left bank 40 ft (12 m) south of Burlington Northern Inc. track, 500 ft (152 m) downstream from bridge on county highway, 2 mi (3 km) east of Stamford, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--3,740 mi² (9,690 km²), approximately, of which about 3,280 mi² (8,500 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1945 to current year. Monthly discharge only for some periods, published in WSE 1310.

REVISED RECORDS.--WSP 1919: 1960. WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,981.31 ft (603.903 m) above mean sea level.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow affected by irrigation development above station.

AVERAGE DISCHARGE.--31 years, 68.3 ft³/s (1.934 m³/s), 49,480 acre-ft/yr (61.0 hm³/yr); median of yearly mean discharges, 47 ft³/s (1.331 m³/s), 34,100 acre-ft/yr (42.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,400 ft³/s (1,230 m³/s) June 24, 1966, gage height, 22.13 ft (6.745 m), from floodmark, from contracted opening and flow-over-road measurement of peak flow; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 69 ft³/s (1.95 m³/s) Apr. 10, gage height, 4.67 ft (1.423 m), no peak above base of 1,000 ft³/s (28.3 m³/s); maximum gage height, 4.90 ft (1.494 m) Feb. 17, backwater from ice; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	0	.70	1.7	2.8	6.0	4.8	11	11	0		0
2	.28	0	1.0	1.5	3.1	5.8	4.9	15	12	0		0
3	.01	0	1.2	1.4	3.6	2.4	4.6	24	11	0		0
4	0	0	1.4	1.4	3.3	2.0	4.1	21	9.6	0		0
5	0	0	1.5	1.6	2.7	3.0	4.1	14	7.5	0		0
6	0	0	1.6	1.5	2.6	4.5	5.3	10	5.4	.11		0
7	0	0	1.7	1.3	2.9	10	6.2	7.7	4.3	0		0
8	0	0	1.8	1.0	3.5	11	6.5	6.8	3.7	0		0
9	0	0	1.8	.90	4.0	9.0	9.2	5.6	3.6	0		0
10	0	0	1.8	1.0	4.6	8.2	59	5.1	2.9	0		0
11	0	0	1.8	1.0	5.1	7.9	28	6.0	1.5	0		0
12	0	0	1.6	1.1	5.7	7.8	20	6.0	.70	0		0
13	0	0	1.5	1.1	6.6	9.5	14	5.3	.26	0		0
14	0	0	1.4	1.2	7.3	6.4	15	5.7	.08	0		0
15	0	0	1.2	1.3	8.1	7.0	15	5.2	.92	0		0
16	0	0	.95	1.4	8.9	6.6	13	6.5	1.0	0		0
17	0	0	.80	1.5	9.8	6.8	10	5.6	.80	0		0
18	0	0	1.0	1.4	11	6.5	11	5.5	.08	0		0
19	0	0	1.1	1.2	14	6.5	32	6.6	.02	0		0
20	0	0	1.2	1.0	17	6.1	42	5.0	0	0		0
21	0	0	1.3	1.2	19	5.7	30	5.1	0	0		0
22	0	0	1.5	1.4	17	5.5	30	8.7	0	0		0
23	0	.05	1.6	1.6	15	4.8	34	9.1	4.4	0		0
24	0	0	1.8	1.8	13	5.0	19	11	2.6	0		0
25	0	0	1.9	1.5	10	5.0	12	13	.20	0		0
26	0	0	2.0	1.0	9.8	4.7	11	22	0	0		0
27	0	.01	2.0	1.0	8.0	4.8	10	30	0	0		0
28	0	.02	2.1	1.2	7.1	5.6	10	25	0	0		0
29	0	.03	2.2	1.5	6.3	5.3	9.9	21	.24	0		0
30	0	.05	2.1	1.9	---	5.2	10	16	.03	0		54
31	0	---	1.9	2.4	---	4.8	---	13	---	0		---
TOTAL	.88	.16	47.45	42.00	231.8	189.4	484.6	351.5	83.83	.11	0	54
MEAN	.028	.005	1.53	1.35	7.99	6.11	16.2	11.3	2.79	.004	0	1.80
MAX	.59	.05	2.2	2.4	19	11	59	30	12	.11	0	54
MIN	0	0	.70	.90	2.6	2.0	4.1	5.0	0	0	0	0
AC-FT	1.7	.3	94	83	460	376	961	697	166	.2	0	107
CAL YR 1975	TOTAL	8920.65	MEAN	24.4	MAX	543	MIN	0	AC-FT	17690		
WTR YR 1976	TOTAL	1485.73	MEAN	4.06	MAX	59	MIN	0	AC-FT	2950		

KANSAS RIVER BASIN

06848500 PRAIRIE DOG CREEK NEAR WOODRUFF, KS

LOCATION.--Lat 39°59'09", long 99°28'39", in NW1/4NW1/4 sec.9, T.1 S., R.19 W., Phillips County, Hydrologic Unit 10250015, on left bank at downstream side of bridge on U.S. Highway 383, 1 mi (2 km) south of Kansas-Nebraska State line, 2.5 mi (4.0 km) west of Woodruff, and at mi 26.5 (42.6 km).

DRAINAGE AREA.--1,007 mi² (2,608 km²).

PERIOD OF RECORD.--October 1928 to September 1932, October 1944 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 2,016.20 ft (614.538 m) above mean sea level. See WSP 1919 for history of changes prior to Oct. 7, 1955.

REMARKS.--Records good except those for winter periods, which are poor. Flow regulated to some extent since 1964 by Norton Reservoir (station 06847950) 48.4 mi (77.9 km) upstream and by irrigation development above station.

AVERAGE DISCHARGE.--36 years, 40.2 ft³/s (1.138 m³/s), 29,120 acre-ft/yr (35.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft³/s (425 m³/s) June 23, 1947, gage height, 21.04 ft (6.413 m), site and datum then in use, from rating curve extended above 6,500 ft³/s (184 m³/s) on basis of contracted-opening measurement of 11,300 ft³/s (320 m³/s); no flow at times in 1945, 1948, 1950, 1954-61, 1963-66, 1971, 1972, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 506 ft³/s (14.3 m³/s) at 0600 Sept. 13, gage height, 9.05 ft (2.758 m), no other peak above base of 400 ft³/s (11.3 m³/s); no flow some days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	2.3	3.2	6.4	12	3.5	3.8	3.3	3.0	4.8	0	.09
2	1.8	2.2	3.4	6.6	14	3.3	3.9	3.3	3.9	4.5	0	.03
3	1.7	2.2	3.5	5.4	8.4	3.2	4.0	3.3	4.1	8.0	0	18
4	1.4	2.2	3.7	4.8	8.0	3.0	3.7	3.0	4.3	4.0	0	8.5
5	1.2	1.7	3.8	3.1	8.0	3.0	3.7	2.8	4.6	4.6	0	3.2
6	1.1	2.0	4.0	2.9	8.2	3.1	3.8	2.7	5.2	3.3	0	1.1
7	1.2	1.7	4.2	2.9	9.0	3.5	4.1	2.6	5.3	1.9	0	.18
8	1.1	1.5	4.4	3.0	9.8	4.6	4.3	2.6	6.3	3.4	0	.18
9	.50	2.9	4.6	3.4	11	4.7	4.2	3.0	6.4	2.4	0	.05
10	.28	2.4	4.7	3.6	12	4.8	4.2	3.5	5.6	1.5	0	.03
11	.51	1.4	4.8	4.0	13	5.4	4.3	3.5	4.4	1.7	0	.01
12	.50	.74	4.9	4.4	14	5.7	4.3	4.4	4.2	2.3	0	1.9
13	.48	.64	5.0	5.0	16	6.4	3.9	5.4	3.9	2.7	0	217
14	.44	.72	5.0	5.4	17	5.7	3.4	5.2	2.9	2.7	0	54
15	.53	.88	5.1	6.0	17	5.1	3.2	5.6	1.4	2.3	0	41
16	.57	1.2	5.1	6.4	17	4.4	3.6	5.9	1.4	2.1	0	8.9
17	1.0	1.7	4.5	7.0	15	4.0	4.2	6.2	.09	2.7	0	8.6
18	1.6	1.8	4.0	7.6	15	3.9	4.7	5.6	.08	2.5	0	9.0
19	1.8	3.0	3.7	8.2	12	4.0	5.2	5.7	.06	2.5	0	3.6
20	2.0	4.9	3.6	9.0	13	3.8	5.1	4.3	0	1.6	0	1.4
21	2.0	3.7	3.7	9.8	10	3.6	4.4	3.5	0	2.4	0	.23
22	2.1	3.3	3.9	10	8.1	3.6	3.8	3.6	.01	2.2	0	.05
23	2.0	2.8	4.1	11	7.1	4.0	3.4	3.3	.15	1.9	0	.01
24	2.1	2.6	4.3	12	4.8	3.8	3.3	8.2	1.8	3.9	.03	.10
25	2.2	2.6	4.5	13	4.5	3.5	3.1	11	3.5	3.2	.04	56
26	2.2	2.6	4.8	9.0	4.5	3.3	3.0	6.9	3.4	.30	.05	117
27	1.7	2.7	5.0	7.0	4.8	3.2	3.1	3.2	5.6	.01	.02	39
28	1.6	2.8	5.4	7.0	5.0	3.2	3.1	2.3	4.5	0	0	27
29	2.0	3.0	5.6	8.4	4.7	3.5	3.2	2.5	2.0	0	.02	6.8
30	2.0	3.1	5.8	9.6	---	3.6	3.3	2.6	2.5	0	.03	2.5
31	2.3	---	6.2	11	---	3.9	---	2.2	---	0	.08	---
TOTAL	43.01	67.28	138.5	212.9	302.9	124.3	115.3	131.2	90.59	75.41	.27	625.46
MEAN	1.39	2.24	4.47	6.87	10.4	4.01	3.84	4.23	3.02	2.43	.009	20.8
MAX	2.3	4.9	6.2	13	17	6.4	5.2	11	6.4	8.0	.08	217
MIN	.28	.64	3.2	2.9	4.5	3.0	3.0	2.2	0	0	0	.01
AC-FT	85	133	275	422	601	247	229	260	180	150	.5	1240

CAL YR 1975 TOTAL 4140.15 MEAN 11.3 MAX 959 MIN .15 AC-FT 8210
WTR YR 1976 TOTAL 1927.12 MEAN 5.27 MAX 217 MIN 0 AC-FT 3820

06849000 HARLAN COUNTY LAKE NEAR REPUBLICAN CITY, NE

LOCATION.--Lat 40°04'10", long 99°12'30", in sec.11, T.1 N., R.17 W., Harlan County, Hydrologic Unit 10250009, at left end of spillway on upstream side of Harlan County Dam on Republican River, 2 mi (3 km) southeast of Republican City and 8 mi (13 km) southeast of Alma.

DRAINAGE AREA.--20,750 mi² (53,700 km²), approximately, of which about 13,530 mi² (35,000 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--November 1952 to current year. Prior to October 1965 published as Harlan County Reservoir near Republican City.

GAGE.--Water-stage recorder. Gage is referred to mean sea level.

REMARKS.--Reservoir is formed by earthfill dam with gravity-type concrete spillway section; storage began Nov. 14, 1952. Capacity, 342,600 acre-ft (0.422 km³) between elevations 1,885.0 ft (575 m), sill of outlet gates, and 1,946.0 ft (593 m), top of storage pool. Top of flood-control pool at elevation 1,973.5 ft (602 m), capacity, 840,600 acre-ft (1.04 km³). Top of superstorage flood-control pool at elevation 1,975.5 ft (602 m), capacity, 887,400 acre-ft (1.09 km³). Dead storage, 929 acre-ft (1.15 km³). Figures given herein represent total contents. Water used for irrigation in the Postwick irrigation project.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 497,700 acre-ft (0.614 km³) Apr. 6, 1960, elevation, 1,955.67 ft (596.088 m); minimum since operation of reservoir began, 110,300 acre-ft (0.136 km³) Oct. 22 to Nov. 6, 1953, elevation, 1,922.00 ft (585.826 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 335,000 acre-ft (0.413 km³) June 10, elevation, 1,947.12 ft (593.482 m); minimum, 162,200 acre-ft (0.200 km³) Sept. 7, elevation, 1,931.52 ft (588.727 m).

Capacity table (elevation, in feet,
and contents, in acre-feet)

1,930	150,000	1,945	329,600
1,935	217,600	1,950	398,900
1,940	270,200		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	252100	251500	258000	267900	277800	290200	301000	321100	334100	304900	229300	167800
2	252000	251600	258100	268000	278300	290700	301200	321100	334200	303500	227100	166700
3	252000	252100	258100	268300	279000	290700	301500	321400	334500	301000	224600	165700
4	251900	252100	258400	268300	279200	291500	301600	322000	334800	299000	222400	164700
5	251800	252200	258700	268500	279500	291600	301900	322200	334800	296900	220700	163900
6	251800	252500	258700	268900	279600	291600	303200	322200	334900	294200	218700	162900
7	251500	252600	259100	269000	280000	291900	303700	322600	334900	291700	216500	162600
8	251600	252600	259300	269100	280200	292500	304500	322800	334900	289100	214900	163100
9	251600	253400	259800	269400	280700	293000	307100	323200	334900	286500	213200	163100
10	251600	253200	259900	269600	281200	293400	309500	323300	334800	284000	211600	163000
11	251500	253200	260400	269600	282000	294700	309600	323700	334600	281500	209800	162900
12	251500	253200	260800	269900	282600	294700	309800	324100	334200	278800	208100	163900
13	251500	253200	261300	270100	283000	294800	310600	324100	333800	276100	205900	164000
14	251500	253300	261700	270100	283600	294800	311100	324300	333500	273500	203700	164400
15	251400	253400	261900	270500	284200	295500	312300	324500	331200	270900	201500	164800
16	251300	253600	262200	270700	284900	296100	313300	324400	329200	268000	199800	164900
17	251300	253800	262300	271000	285300	296500	313700	324400	327800	265300	197700	165100
18	251200	254300	262400	271600	286000	296900	314400	324100	326000	262500	195400	165300
19	251300	256000	262900	271700	286000	297500	314800	324400	324400	259900	193100	165400
20	251300	256900	263000	272100	286600	297600	315000	324500	321800	257600	190800	165400
21	251400	256900	263400	272500	287000	297800	315600	326700	320200	256000	188400	165400
22	251500	256900	263500	273000	287300	297900	315800	328300	317800	253500	186200	165300
23	251500	256900	263900	273500	287800	298300	317100	328500	317800	251300	184000	165100
24	251500	256900	264100	273800	288400	298400	317200	330400	315900	248800	182400	165700
25	251100	257500	264500	274400	288700	299000	317500	331200	315100	246500	180400	166700
26	251100	257500	265000	274900	289100	299200	317500	331800	314400	243900	178400	166800
27	251100	257500	265600	275600	289100	299300	318200	332400	312800	241600	176100	166800
28	251200	257600	266000	275800	289300	299700	319100	332900	311500	239100	174000	166900
29	251200	257600	266400	276200	289700	300900	319800	333300	309800	236600	172200	167000
30	251200	257800	266800	276500	---	300900	320300	333500	307600	234200	170100	167000
31	251500	---	267200	277200	---	300900	---	333800	---	231600	168700	---
MAX	252100	257800	267200	277200	289700	300900	320300	333800	334900	304900	229300	167800
MIN	251100	251500	258000	267900	277800	290200	301000	321100	307600	231600	168700	162600
†	1940.59	1941.12	1941.90	1942.71	1943.70	1944.57	1946.04	1947.03	1945.09	1938.83	1932.31	1932.10
‡	-600	+6300	+9400	+10000	+12500	+11200	+19400	+13500	-26200	-76000	-62900	-1700
CAL YR 1975	MAX	347700	MIN	239500	‡	+27800						
WTR YR 1976	MAX	334900	MIN	162600	‡	-85100						

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

KANSAS RIVER BASIN

06849500 REPUBLICAN RIVER BELOW HARLAN COUNTY DAM, NE

LOCATION.--Lat 40°04'45", long 99°10'05", in SW1/4 sec.6, T.1 N., R.16 W., Franklin County, Hydrologic Unit 10250016, on left bank 1.4 mi (2.3 km) west of Naponee, 1.4 mi (2.3 km) upstream from Turkey Creek, and 2.8 mi (4.5 km) downstream from Harlan County Dam.

DRAINAGE AREA.--20,760 mi² (53,800 km²), approximately, of which about 13,550 mi² (35,100 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--December 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,863.38 ft (567.958 m) above mean sea level (Corps of Engineers bench mark).

REMARKS.--Records good except those for winter period, which are poor. Flow completely regulated by Harlan County Lake (station 06849000) and partially regulated by six upstream reservoirs.

AVERAGE DISCHARGE.--23 years (1953-76), 301 ft³/s (8.524 m³/s), 218,100 acre-ft/yr (0.269 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,320 ft³/s (122 m³/s) June 25, 1957, gage height, 8.65 ft (2.637 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Apr. 28, 29, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since at least 1826 occurred June 1, 1935, discharge, about 260,000 ft³/s (7,360 m³/s), from slope-area measurement near Bloomington.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 980 ft³/s (27.8 m³/s) June 30, gage height, 3.78 ft (1.152 m); minimum daily, 7.0 ft³/s (0.20 m³/s) Jan. 3, 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	13	11	8.8	12	12	12	9.3	11	941	898	414
2	14	13	11	7.6	12	12	11	11	10	950	864	323
3	14	14	11	7.0	11	13	11	12	12	946	840	301
4	14	13	11	7.4	10	10	11	12	11	950	825	301
5	14	13	11	7.6	9.0	9.4	10	11	16	937	792	301
6	13	13	12	7.4	9.0	12	12	11	16	931	769	243
7	13	12	12	7.0	9.4	10	86	11	15	934	696	156
8	14	11	12	7.0	10	10	21	10	14	934	639	15
9	14	12	12	7.5	10	10	13	10	14	944	640	14
10	14	12	12	8.0	10	10	10	10	13	963	630	17
11	14	11	13	8.5	10	11	8.6	8.3	44	957	630	15
12	14	10	13	9.2	10	12	8.6	7.9	162	954	627	15
13	14	11	12	10	10	12	8.6	8.6	163	953	677	19
14	13	11	12	11	10	11	7.9	8.6	231	957	729	17
15	13	11	12	12	10	11	11	8.6	440	949	731	16
16	13	11	10	12	11	11	19	8.4	570	932	734	14
17	13	12	8.0	12	9.4	10	14	9.3	571	926	731	14
18	13	12	8.0	12	9.1	9.4	12	9.3	584	927	731	14
19	13	12	8.5	12	9.4	9.6	11	8.0	635	934	751	14
20	13	11	8.5	12	9.8	9.5	11	7.9	713	934	759	14
21	13	11	8.5	11	12	12	11	16	714	938	759	14
22	13	10	8.5	11	10	12	10	233	784	927	759	13
23	13	10	8.9	11	10	12	8.5	36	866	923	743	12
24	13	10	8.9	11	9.6	11	12	22	751	929	720	12
25	13	10	8.9	10	9.4	11	12	17	582	929	725	18
26	13	10	8.9	9.2	9.4	12	11	15	722	916	716	19
27	13	11	8.8	10	9.5	14	12	13	802	906	710	17
28	12	11	9.6	12	10	13	12	11	806	904	682	13
29	13	11	11	13	11	13	12	11	808	896	667	12
30	13	11	12	13	---	13	9.2	11	894	895	675	12
31	13	---	10	12	---	12	---	11	---	901	582	---
TOTAL	413	343	324.0	309.2	292.0	349.9	418.4	588.2	11974	28917	22431	2379
MEAN	13.3	11.4	10.5	9.97	10.1	11.3	13.9	19.0	399	933	724	79.3
MAX	14	14	13	13	12	14	86	233	894	963	898	414
MIN	12	10	8.0	7.0	9.0	9.4	7.9	7.9	10	895	582	12
AC-FT	819	680	643	613	579	694	830	1170	23750	57360	44490	4720
CAL YR 1975	TOTAL	54743.7	MEAN 150	MAX 1030	MIN 6.7	AC-FT 108600						
WTB YR 1976	TOTAL	68738.7	MEAN 188	MAX 963	MIN 7.0	AC-FT 136300						

KANSAS RIVER BASIN

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06852500 COURTLAND CANAL AT NEBRASKA-KANSAS STATE LINE

LOCATION.--Lat 40°00'15", long 98°07'55", in SW1/4SE1/4 sec.32, T.1 N., R.7 W., Nuckolls County, Ne., Hydrologic Unit 10250016, on left bank 0.2 mi (0.3 km) upstream from Nebraska-Kansas State line and 3.5 mi (5.6 km) southwest of Superior, Ne.

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder and concrete Parshall flume. Datum of gage is 1,612.46 ft (491.478 m) above mean sea level.

REMARKS.--Records good. Canal diverts from Republican River at Courtland diversion dam in sec.7, T.1 N., R.9 W. Water is used for irrigation in Nebraska and Kansas; figures published herein represent that portion which flows into Kansas.

AVERAGE DISCHARGE.--22 years, 77.1 ft³/s (2.183 m³/s), 55,860 acre-ft/yr (68.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 781 ft³/s (22.1 m³/s) Sept. 2, 1973, gage height, 5.05 ft (1.539 m); no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 686 ft³/s (19.4 m³/s) July 22, gage height, 4.70 ft (1.433 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	39	35	510	640	522
2							0	39	34	561	640	416
3							0	39	34	605	625	358
4							0	40	33	609	601	370
5							0	42	33	609	631	366
6							0	40	34	609	647	364
7							0	40	33	605	647	287
8							0	41	44	603	647	238
9							0	42	44	603	647	229
10							0	37	42	594	642	149
11							0	26	40	598	618	126
12							0	30	40	607	570	108
13							0	31	40	634	570	86
14							0	31	52	636	546	83
15							0	31	91	640	565	103
16							0	30	102	640	596	97
17							0	30	236	638	585	92
18							0	30	336	636	536	82
19							0	30	352	636	494	78
20							0	30	352	631	484	78
21							0	30	390	640	510	88
22							0	32	460	669	526	83
23							0	32	462	671	538	72
24							0	34	484	664	552	73
25							0	34	506	664	514	67
26							0	33	472	667	504	65
27							0	34	462	662	504	95
28							88	35	520	653	510	128
29							82	34	609	645	518	104
30							40	35	579	642	528	95
31		---			---		---	35	---	642	550	---
TOTAL	0	0	0	0	0	0	210	1066	6951	19423	17685	5102
MEAN	0	0	0	0	0	0	7.00	34.4	232	627	570	170
MAX	0	0	0	0	0	0	88	42	609	671	647	522
MIN	0	0	0	0	0	0	0	26	33	510	484	65
AC-FT	0	0	0	0	0	0	417	2110	13790	38530	35080	10120
CAL YR 1975	TOTAL	35758.60	MEAN	98.0	MAX	702	MIN	0	AC-FT	70930		
WTF YR 1976	TOTAL	50437.00	MEAN	138	MAX	671	MIN	0	AC-FT	100000		

KANSAS RIVER BASIN

06853000 REPUBLICAN RIVER NEAR GUIDE ROCK, NE

LOCATION.--Lat 40°04'05", long 98°22'25", in SW1/4NE1/4 sec.7, T.1 N., R.9 W., Webster County, Hydrologic Unit 10250016, on left bank 300 ft (91 m) upstream from Willow Creek, 0.2 mi (0.3 km) downstream from Courtland diversion dam, and 2 mi (3 km) southwest of Guide Rock.

DRAINAGE AREA.--22,040 mi² (57,100 km²), approximately, of which about 14,550 mi² (37,700 km²) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1950 to current year.

REVISED RECORDS.-- WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,624.13 ft (495.035 m) above mean sea level. Prior to Oct. 1, 1959, at datum 5.00 ft (1.524 m) higher.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow affected by irrigation development above station, by regulation of upstream reservoirs, and since Nov. 14, 1952, by storage in Harlan County Lake (station 06849000).

AVERAGE DISCHARGE.--26 years, 379 ft³/s (10.73 m³/s), 274,600 acre-ft/yr (0.339 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,200 ft³/s (827 m³/s) June 16, 1957, gage height, 20.73 ft (6.319 m), present datum; minimum daily, 0.1 ft³/s (0.003 m³/s) May 26, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.-- Maximum flood since at least 1826 occurred June 1 or 2, 1935, discharge, about 250,000 ft³/s (7,080 m³/s), from slope-area measurements near Bloomington and Hardy.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,350 ft³/s (38.2 m³/s) June 24, gage height, 11.86 ft (3.615 m); minimum daily, 0.65 ft³/s (0.018 m³/s) Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	88	95	137	135	119	131	123	84	112	62	103
2	84	89	110	125	131	114	132	109	77	133	103	98
3	83	95	125	100	125	107	131	99	71	85	44	41
4	80	97	133	80	95	90	132	97	65	94	27	19
5	76	98	135	85	75	95	134	94	63	87	95	16
6	76	101	147	80	80	100	142	90	61	63	178	13
7	75	102	138	76	100	105	438	84	59	36	133	94
8	74	103	149	76	115	115	434	87	40	24	106	108
9	74	107	148	85	125	120	296	93	23	13	40	77
10	75	110	145	90	148	119	218	42	22	23	27	22
11	76	108	139	94	127	121	187	76	13	65	4.9	15
12	79	103	134	98	120	124	172	107	5.4	43	2.1	7.9
13	79	103	132	105	118	116	169	93	5.4	3.0	1.9	6.6
14	76	101	131	110	117	116	171	89	20	2.6	4.3	10
15	77	103	90	115	119	119	174	90	1.8	7.9	49	6.8
16	79	103	85	115	120	121	275	78	103	30	24	10
17	80	103	80	125	122	124	237	81	167	20	5.1	16
18	82	101	85	130	122	124	197	80	98	22	3.9	8.9
19	82	100	100	135	122	126	159	81	78	12	2.8	9.0
20	85	98	110	140	121	121	145	77	82	1.4	5.2	9.5
21	85	96	120	143	115	115	135	73	122	152	42	9.8
22	85	92	130	151	120	115	107	108	64	346	41	6.1
23	88	88	137	153	131	118	124	441	88	276	27	5.5
24	88	85	130	152	132	116	353	335	825	209	5.1	15
25	88	80	136	150	128	115	179	206	661	190	.65	61
26	90	70	126	147	126	115	81	163	151	184	4.6	135
27	90	70	131	136	123	113	53	137	155	160	4.9	152
28	90	75	135	129	122	115	42	125	169	124	27	36
29	90	80	138	148	121	122	100	113	27	89	49	18
30	90	80	141	145	---	141	137	99	79	44	36	10
31	90	---	141	138	---	133	---	90	---	22	49	---
TOTAL	2551	2829	3876	3693	3455	3614	5385	3660	3479.6	2672.9	1204.45	1139.1
MEAN	82.3	94.3	125	119	119	117	180	118	116	86.2	38.9	38.0
MAX	90	110	149	153	148	141	438	441	825	346	178	152
MIN	74	70	80	76	75	90	42	42	1.8	1.4	.65	5.5
AC-FT	5060	5610	7690	7330	6850	7170	10680	7260	6900	5300	2390	2260
CAL YR 1975	TOTAL	56885.50	MEAN	156	MAX	1850	MIN	.90	AC-FT	112800		
WTR YR 1976	TOTAL	37559.05	MEAN	103	MAX	825	MIN	.65	AC-FT	74500		

06853000 REPUBLICAN RIVER NEAR GUIDE ROCK, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1962 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT											
14...	1315	77	695	8.0	17.0	45	9.4	46	2000	170	15
NOV											
24...	1515	85	700	8.1	1.0	30	14.3	4.5	2900	610	18
DEC											
22...	1445	126	710	8.0	1.0	15	12.1	17	12	92	16
JAN											
20...	1115	138	600	7.8	.0	20	12.5	6.2	200	91	12
FEB											
17...	1415	121	690	7.8	7.0	15	11.1	6.0	180	80	17
MAR											
16...	1345	119	680	7.9	8.0	20	11.7	7.0	140	59	16
APR											
26...	1345	49	690	7.7	12.0	30	9.6	4.4	12000	3800	18
MAY											
24...	1430	290	340	7.7	16.0	800	8.8	5.0	180000	2100	6.9
JUN											
21...	1400	109	680	8.0	23.0	90	7.4	3.4	2000	2000	39
JUL											
19...	1430	33	650	8.2	27.0	40	7.6	3.4	1900	280	19
AUG											
16...	1345	13	650	8.2	25.0	30	7.6	1.3	3100	380	19
SEP											
27...	1330	116	410	7.9	14.0	340	8.8	5.2	45000	14000	11

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT										
14...	--	.52	80.0	.11	.09	1.2	1.3	1.4	.28	.11
NOV										
24...	422	.57	96.8	1.4	.14	2.4	2.5	3.9	.27	.22
DEC										
22...	398	.54	135	1.4	.11	.40	.51	1.9	.21	.16
JAN										
20...	--	.48	132	1.4	.05	.53	.58	2.0	.17	.12
FEB										
17...	412	.56	135	1.0	.01	.60	.61	1.6	.15	.10
MAR										
16...	395	.54	127	1.0	.18	.58	.76	1.8	.17	.11
APR										
26...	410	.56	54.2	.96	.04	.73	.77	1.7	.25	.20
MAY										
24...	--	.26	149	1.1	.29	4.4	4.7	5.8	1.3	.25
JUN										
21...	353	.48	104	.48	.04	1.1	1.1	1.6	.31	.09
JUL										
19...	--	.48	31.2	.52	.00	.55	.55	1.1	.20	.10
AUG										
16...	353	.48	12.4	.50	.01	.35	.36	.86	.17	.10
SEP										
27...	222	.30	69.5	.92	.03	.26	.29	1.2	.65	.25

KANSAS RIVER BASIN

06853000 REPUBLICAN RIVER NEAR GUIDE ROCK, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA+MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
OCT 14...	1315	20	240	27	70	17	31	.9	13	265
JAN 20...	1115	5	230	13	69	14	24	.7	9.5	264
MAY 24...	1430	27	120	0	36	7.0	9.9	.4	11	154
JUL 19...	1430	18	200	3	50	19	37	1.1	18	244

DATE	CAR- BONATE (CO3), (MG/L) (00445)	ALKA- LITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
OCT 14...	0	217	84	.4	24	385	--	100	--	--
JAN 20...	0	217	70	.3	26	355	0	70	2	0
MAY 24...	0	126	27	.3	16	190	--	50	--	--
JUL 19...	0	200	79	.7	7.2	350	7	110	1	10

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
OCT 14...	--	20	--	60	--	--	--	--	--	--
JAN 20...	3	20	4	40	.2	.2	.0	2	0	10
MAY 24...	--	180	--	30	--	--	--	--	--	--
JUL 19...	2	30	11	10	.1	.0	.1	2	0	10

06853500 REPUBLICAN RIVER NEAR HARDY, NE

LOCATION.--Lat 40°00'01", long 97°54'55", in NE1/4NE1/4 sec.6, T.1 S., R.5 W., in Kansas, Republic County, Hydrologic Unit 10250016, at downstream side of highway bridge, 1.2 mi (1.9 km) southwest of Hardy and at mi 141.2 (227.2 km).

DRAINAGE AREA.--22,401 mi² (58,019 km²), of which about 7,500 mi² (19,425 km²) does not contribute directly to surface runoff.

PERIOD OF RECORD.--June 1904 to September 1915 (no winter records), April 1931 to current year. Prior to May 1932, published as "at Bostwick." Records for June 1896 to November 1903 published as "near Superior" in 18th to 22nd Ann. Repts., inclusive, Pt. 4, and WSP 75, 84, and 99, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 806: Drainage area. WSP 1006: 1941. WSP 1340: 1905(M), 1907-9, 1912, 1914-15, 1931. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 1,501.46 ft (457.645 m) above mean sea level. Prior to May 19, 1932, nonrecording gage at site at Bostwick, 20 mi (32 km) upstream at different datum.

REMARKS.--Records good except those for winter periods, which are poor. Natural flow affected by irrigation development above station and by storage in six reservoirs in Colorado and Nebraska. Considerable regulation since 1952 by Harlan County Reservoir (station 06849000).

AVERAGE DISCHARGE.--45 years (1913-14, 1932-76), 616 ft³/s (17.45 m³/s), 446,300 acre-ft/yr (0.550 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 225,000 ft³/s (6,370 m³/s) June 2, 1935, gage height, 19.4 ft (5.91 m), based on records for stations upstream; no flow Aug. 9-19, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stages since at least 1895, that of June 2, 1935, and 17.00 ft (5.182 m) June 24, 1947, discharge, 100,000 ft³/s (2,830 m³/s), based on records for upstream stations.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,370 ft³/s (67.1 m³/s) Apr. 24, gage height, 7.30 ft (2.225 m), no peak above regulated base of 2,500 ft³/s (70.8 m³/s); minimum, 29 ft³/s (0.82 m³/s), Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	124	200	191	195	153	167	205	138	106	125	91
2	108	125	150	150	181	149	155	184	133	132	127	97
3	105	134	180	100	177	145	147	170	128	168	132	113
4	103	135	203	110	171	147	146	165	122	147	129	100
5	100	132	212	120	131	108	145	158	116	145	134	70
6	100	132	189	110	120	140	145	154	114	136	231	60
7	99	131	193	100	150	173	178	148	112	125	273	53
8	97	128	196	110	182	183	699	144	110	110	218	96
9	94	127	201	110	204	195	556	142	104	108	192	114
10	96	128	196	120	217	182	369	141	93	97	141	100
11	99	129	187	120	204	173	263	146	81	85	108	65
12	101	125	179	130	183	181	226	147	74	94	78	57
13	100	123	173	130	168	184	207	144	68	95	58	47
14	99	123	169	140	163	157	206	140	67	75	51	41
15	97	126	154	140	164	155	256	136	92	58	50	50
16	100	128	132	150	163	157	1070	148	78	61	68	44
17	104	129	130	150	162	156	715	148	82	80	77	40
18	107	133	130	160	159	156	454	128	169	107	53	40
19	110	143	140	170	157	154	327	126	150	107	40	39
20	115	167	150	180	154	149	268	126	133	88	39	37
21	116	166	160	190	152	142	245	120	131	91	45	35
22	116	164	170	200	182	139	230	142	149	220	60	34
23	115	149	170	200	177	137	205	137	139	426	72	33
24	113	136	170	200	174	137	1360	406	145	360	81	30
25	112	100	170	150	176	136	902	364	872	286	66	40
26	114	119	170	150	174	133	416	249	580	253	59	61
27	117	156	180	160	170	132	273	201	241	222	58	83
28	117	196	180	200	166	131	209	175	199	220	59	137
29	119	225	190	242	161	141	183	163	205	191	67	84
30	122	264	197	223	---	177	192	152	129	166	76	65
31	122	---	196	211	---	186	---	144	---	151	91	---
TOTAL	3326	4297	5417	4817	4937	4788	10914	5253	4954	4710	3058	1956
MEAN	107	143	175	155	170	154	364	169	165	152	98.6	65.2
MAX	122	264	212	242	217	195	1360	406	872	426	273	137
MIN	94	100	130	100	120	108	145	120	67	58	39	30
AC-FT	6600	8520	10740	9550	9790	9500	21650	10420	9830	9340	6070	3880
CAL YR 1975	TOTAL	94932	MEAN 260	MAX 3750	MIN 39	AC-PT 188300						
WTR YR 1976	TOTAL	58427	MEAN 160	MAX 1360	MIN 30	AC-PT 115900						

KANSAS RIVER BASIN

06879900 BIG BLUE RIVER AT SURPRISE, NE

LOCATION.--Lat 41°06'05", long 97°18'35", in NW1/4NW1/4 sec.15, T.13 N., R.1 E., Butler County, Hydrologic Unit 10270201, on left bank 50 ft (15 m) downstream from bridge on county road at south edge of Surprise.

DRAINAGE AREA.--345 mi² (894 km²).

PERIOD OF RECORD.--April 1964 to current year. Prior to October 1965, published as North Branch Big Blue River at Surprise.

GAGE.--Water-stage recorder and concrete broad-crested weir control. Altitude of gage is 1,520 ft (463 m), from topographic map.

REMARKS.--Records good above 5 ft³/s (0.14 m³/s) and poor below. Periodic temperature and conductance measurements are published in tables for water quality at miscellaneous sites.

AVERAGE DISCHARGE.--12 years, 27.2 ft³/s (0.770 m³/s), 19,710 acre-ft/yr (24.3 hm³/yr); median of yearly mean discharges, 20 ft³/s (0.566 m³/s), 14,500 acre-ft/yr (17.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft³/s (303 m³/s) July 19, 1965, gage height, 11.52 ft (3.511 m); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,190 ft³/s (33.7 m³/s) May 23 at 0700, gage height, 5.90 ft (1.798 m), no other peak above base of 250 ft³/s (7.08 m³/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	.38	.10	.32	.85	1.5	21	.88	.23	1.8
2		0	0	.44	.20	.33	1.2	.34	11	1.2	4.5	1.5
3		0	.06	.16	.16	.32	1.3	.15	4.3	1.3	7.9	.67
4		0	.06	0	.07	.52	2.0	.15	1.7	1.6	5.7	.24
5		0	.15	0	.02	.32	1.9	.08	.63	1.4	2.6	.22
6		0	.10	.03	0	.37	.99	.05	.29	1.4	1.3	.17
7		0	.06	0	0	.32	.95	.06	.12	2.2	.66	.06
8		0	.15	0	0	.32	.74	.05	.04	5.6	.53	.15
9		0	.10	0	0	.32	.63	.04	0	3.1	.57	.13
10		0	.58	0	0	.24	.39	.05	0	2.6	.74	.08
11		0	.58	0	.05	.25	.21	.03	0	2.4	1.1	.04
12		0	.44	0	.10	.78	.17	.25	0	3.4	1.7	.01
13		0	.44	0	.08	.47	.16	.12	0	3.6	2.5	0
14		0	.58	0	.10	.58	.16	.08	0	4.1	15	0
15		0	.73	0	.22	.45	.20	.03	0	2.7	8.5	0
16		0	.58	.03	.44	.44	.70	0	0	1.4	36	0
17		0	.32	.03	.68	.58	.33	0	.01	1.4	26	0
18		0	.03	.06	1.3	.57	.91	0	0	.84	12	0
19		.15	.10	.10	1.9	.40	1.2	0	0	.51	4.9	.02
20		1.8	.15	.10	1.8	.26	.95	0	0	1.1	2.2	.01
21		.40	.15	.10	1.9	.10	.68	0	0	1.5	.64	0
22		.06	.15	.15	.89	.11	.33	46	0	1.1	.84	0
23		0	.15	.14	.75	.17	.21	637	.04	.93	.92	0
24		0	.10	.11	.85	.08	.20	91	.18	.40	.73	0
25		0	.10	.17	.75	.08	.16	56	.03	.27	.90	1.2
26		.03	.10	.12	.45	.08	.39	26	.01	.08	1.5	2.4
27		.06	.22	.07	.60	.05	1.6	14	.07	.13	1.5	22
28		.03	.22	.08	.68	.05	1.8	10	.94	.47	.99	14
29		.06	.24	.18	.37	.72	1.7	14	1.2	2.9	1.1	5.4
30		.06	.25	.20	---	1.8	1.7	63	.74	4.4	1.6	3.0
31		---	.22	.15	---	1.2	---	40	---	1.1	1.1	---
TOTAL	0	2.65	7.11	2.80	14.46	12.60	24.71	999.98	42.30	56.01	146.45	53.10
MEAN	0	.088	.23	.090	.50	.41	.82	32.3	1.41	1.81	4.72	1.77
MAX	0	1.8	.73	.44	1.9	1.8	2.0	637	21	5.6	36	22
MIN	0	0	0	0	0	.05	.16	0	0	.08	.23	0
AC-PT	0	5.3	14	5.6	29	25	49	1980	84	111	290	105
CAL YR 1975	TOTAL	6341.56	MEAN	17.4	MAX	1330	MIN	0	AC-PT	12580		
WTR YR 1976	TOTAL	1362.17	MEAN	3.72	MAX	637	MIN	0	AC-PT	2700		

KANSAS RIVER BASIN

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06880000 LINCOLN CREEK NEAR SEWARD, NE

LOCATION.--Lat 40°54'57", long 97°08'43", in NW1/4NE1/4 sec.24, T.11 N., R.2 E., Seward County, Hydrologic Unit 10270201, on left bank 20 ft (6 m) downstream from county road bridge, 2 mi (3 km) west of Seward, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--446 mi² (1,155 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to September 1973, March 1974 to current year. Monthly discharge only for some periods, published in WSP 1730.

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,429.27 ft (435.641 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are poor. Small diversions for irrigation above station.

AVERAGE DISCHARGE.--22 years, (1953-73, 1974-76) 43.7 ft³/s (1.238 m³/s), 31,660 acre-ft/yr (39.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/s (286 m³/s) June 17, 1957, gage height, 20.53 ft (6.258 m); minimum daily, 1.3 ft³/s (0.037 m³/s) July 31, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 888 ft³/s (25.1 m³/s) May 24 at 1200, gage height, 13.24 ft (4.036 m), no other peak above base of 350 ft³/s (9.91 m³/s); minimum daily, 1.5 ft³/s (0.042 m³/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	6.2	6.2	6.6	8.4	8.6	20	12	37	5.1	37	5.7
2	4.8	6.2	7.0	6.2	8.0	9.4	14	11	27	6.5	26	5.6
3	4.5	5.9	7.2	6.0	9.0	9.0	13	11	18	5.8	25	5.6
4	4.5	5.8	7.4	5.6	5.8	8.8	13	10	14	5.6	16	7.5
5	4.5	6.0	7.6	6.0	6.6	8.4	12	9.8	12	5.3	8.3	5.7
6	4.5	6.5	7.2	5.6	6.4	8.4	11	9.6	11	4.0	6.3	4.8
7	4.9	6.4	7.4	4.5	7.2	8.6	11	9.5	9.9	6.3	4.6	4.2
8	4.4	6.4	7.2	6.2	8.0	9.0	11	9.3	9.7	5.7	4.5	4.1
9	5.8	6.7	7.4	7.0	8.6	10	11	9.3	9.3	4.8	3.1	3.5
10	5.1	6.2	7.4	7.2	8.2	8.9	9.9	9.3	9.2	4.4	5.0	3.7
11	5.3	6.0	6.9	6.8	8.0	9.3	9.7	9.2	8.5	5.1	10	3.4
12	5.3	6.0	6.6	7.4	8.4	9.7	9.3	9.9	7.7	4.5	8.6	3.4
13	6.0	5.9	6.4	7.0	8.2	9.0	9.2	10	7.3	1.8	8.6	3.5
14	7.0	6.0	7.1	6.6	8.0	9.4	9.3	9.9	7.5	2.9	8.3	3.8
15	5.1	5.5	6.4	8.0	10	9.7	10	9.6	7.0	3.5	179	4.6
16	5.1	5.1	6.6	7.4	13	9.6	13	9.1	4.8	2.5	270	5.5
17	5.1	5.5	6.2	7.2	11	9.4	13	8.9	4.9	2.9	79	5.7
18	5.0	5.1	5.6	7.8	12	9.4	12	9.0	3.8	6.0	42	4.4
19	5.0	6.2	7.4	7.4	11	9.6	11	9.0	4.2	6.3	24	4.6
20	5.2	11	6.6	6.8	10	9.3	11	8.7	3.3	6.7	14	4.8
21	5.3	7.7	5.8	7.4	9.0	8.4	10	8.7	4.0	14	9.4	4.5
22	4.9	6.4	6.0	7.2	8.0	8.5	9.5	9.2	5.1	29	6.3	4.4
23	4.8	6.2	6.0	9.4	8.4	8.6	10	223	6.2	20	4.1	4.8
24	5.4	6.0	6.2	8.6	8.6	8.3	13	711	7.9	8.4	2.2	4.6
25	5.4	5.8	6.4	7.8	8.4	8.3	12	99	4.5	11	2.8	11
26	4.9	6.0	6.6	7.2	8.2	8.2	11	39	2.7	8.8	3.7	39
27	5.1	5.6	6.8	6.4	7.8	7.8	18	26	2.1	6.2	2.1	20
28	5.3	5.4	6.6	8.2	7.6	8.1	35	22	3.1	4.6	1.8	17
29	5.2	6.8	6.8	9.4	8.0	9.1	18	20	3.4	8.1	1.5	20
30	5.3	5.8	7.0	8.6	---	15	14	16	5.3	35	2.1	13
31	5.7	---	6.8	8.8	---	23	---	20	---	31	4.2	---
TOTAL	159.2	186.3	208.8	222.3	249.8	296.8	383.9	1388.0	260.4	271.8	819.5	232.4
MEAN	5.14	6.21	6.74	7.17	8.61	9.57	12.8	44.8	8.68	8.77	26.4	7.75
MAX	7.0	11	7.6	9.4	13	23	35	711	37	35	270	39
MIN	4.4	5.1	5.6	4.5	5.8	7.8	9.2	8.7	2.1	1.8	1.5	3.4
AC-FT	316	370	414	441	495	589	761	2750	517	539	1630	461

CAL YR 1975 TOTAL 11378.6 MEAN 31.2 MAX 729 MIN 4.4 AC-FT 22570
WTR YR 1976 TOTAL 4679.2 MEAN 12.8 MAX 711 MIN 1.5 AC-FT 9280

KANSAS RIVER BASIN

06880000 LINCOLN CREEK NEAR SEWARD, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-70, 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN 5 DAY DEMAND (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT											
14...	1400	8.7	573	7.3	20.0	45	8.9	12	810	1700	8.3
NOV											
18...	1230	5.3	543	8.4	10.0	15	12.6	1.6	360	970	5.7
DEC											
09...	1420	3.4	529	7.2	.5	9	13.0	2.6	311	1420	15
JAN											
21...	1200	7.4	527	7.8	.5	4	17.4	2.4	10	6	5.5
FEB											
12...	1200	8.5	475	7.9	.5	4	15.1	3.0	<3	12	10
MAR											
05...	1115	9.6	524	7.4	.5	8	16.7	2.2	<3	17	6.0
APR											
13...	1245	9.5	560	8.0	15.0	40	9.8	12	50	140	7.8
MAY											
26...	0915	42	977	7.1	15.5	700	5.6	5.6	22250	1500	5.7
JUN											
16...	1100	4.8	560	7.6	17.0	40	10.1	10	286	381	6.9
JUL											
07...	1100	6.9	527	8.1	22.5	60	5.7	9.0	1170	1680	6.3
AUG											
18...	1000	45	218	7.2	24.0	--	4.6	3.5	2100	3700	6.3
SEP											
07...	1115	4.3	538	8.3	23.0	75	5.4	--	325	700	14

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT										
14...	360	.49	8.46	.02	.17	1.8	2.0	2.0	.48	.40
NOV										
18...	338	.46	4.84	.69	.06	1.8	1.9	2.6	.29	.26
DEC										
09...	--	.45	3.07	1.4	.09	.38	.47	1.9	.33	.31
JAN										
21...	336	.46	6.71	1.2	.02	.40	.42	1.6	.22	.18
FEB										
12...	297	.40	6.82	.74	.05	.43	.48	1.2	.20	.17
MAR										
05...	--	.44	8.37	.99	.09	.62	.71	1.7	.28	.21
APR										
13...	351	.48	9.08	.63	.10	1.9	2.0	2.6	.29	.20
MAY										
26...	--	.19	16.2	2.1	.98	5.6	6.6	8.7	1.9	.41
JUN										
16...	358	.49	4.65	.46	.24	1.3	1.5	2.0	.61	.37
JUL										
07...	334	.45	6.22	.27	.15	1.3	1.4	1.7	.63	.33
AUG										
18...	162	.22	19.7	2.1	.36	2.5	2.9	5.0	.86	.35
SEP										
07...	--	.48	4.13	.03	.02	1.7	1.7	1.7	.64	.27

KANSAS RIVER BASIN

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06880000 LINCOLN CREEK NEAR SEWARD, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
DEC 09...	1420	10	230	0	70	13	32	.9	8.0	289
MAR 05...	1115	8	220	0	67	12	25	.7	7.8	291
MAY 26...	0915	200	82	0	23	6.0	11	.5	12	104
SEP 07...	1115	25	230	0	67	15	28	.8	17	294

DATE	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
DEC 09...	0	237	41	.3	29	334	--	50	--	--
MAR 05...	0	239	35	.3	26	323	7	40	1	0
MAY 26...	0	85	18	.2	16	143	--	30	--	--
SEP 07...	0	241	49	.4	20	356	7	60	1	0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
DEC 09...	--	10	--	140	--	--	--	--	--	--
MAR 05...	3	10	2	210	.0	.0	.0	6	0	0
MAY 26...	--	40	--	0	--	--	--	--	--	--
SEP 07...	1	630	4	150	.0	.0	.0	4	0	10

KANSAS RIVER BASIN

06880500 BIG BLUE RIVER AT SEWARD, NE

LOCATION.--Lat 40°54'05", long 97°05'55", in NW1/4NW1/4 sec.28, T.11 N., R.3 E., Seward County, Hydrologic Unit 10270201, at downstream end of left abutment of bridge on State Highway 15 at south edge of Seward, 0.5 mi (0.8 km) upstream from Plum Creek and 1.4 mi (2.3 km) downstream from Lincoln Creek.

DRAINAGE AREA.--1,101 mi² (2,852 km²).

PERIOD OF RECORD.--October 1953 to current year. Monthly discharge only for some periods, published in WSP 1730.

REVISED RECORDS.--WSP 1919: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,415.16 ft (431.341 m) above mean sea level. Prior to Dec. 19, 1969, at site 1.2 mi (1.9 km) upstream at datum 6.33 ft (1.929 m) higher.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow of stream affected by ground-water withdrawals and diversions for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--23 years, 109 ft³/s (3.087 m³/s), 78,970 acre-ft/yr (97.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,300 ft³/s (433 m³/s) June 18, 1957; maximum gage height, 22.83 ft (6.959 m) June 16, 1967, site and datum then in use; no flow July 30, 31, 1955, result of irrigation pumping.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,310 ft³/s (37.1 m³/s) May 24 at 1900, gage height, 12.56 ft (3.828 m), no other peak above base of 900 ft³/s (25.5 m³/s); minimum daily, 1.1 ft³/s (0.031 m³/s) June 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	10	11	14	16	28	106	38	92	4.7	63	7.2
2	12	11	12	13	16	24	98	35	117	4.0	49	8.4
3	9.2	11	13	11	15	22	58	30	76	5.4	34	7.7
4	8.4	11	12	9.2	14	24	43	27	54	5.0	23	9.2
5	8.3	11	14	10	16	25	37	24	43	4.3	12	9.8
6	7.6	12	15	11	17	24	32	20	34	3.6	6.2	8.2
7	7.0	12	17	9.8	20	23	34	19	30	3.0	4.0	7.0
8	7.0	12	18	9.0	20	21	30	18	26	4.0	3.7	7.7
9	6.5	12	25	9.6	22	22	28	17	22	3.2	4.1	7.8
10	7.2	12	23	10	19	21	28	18	19	1.9	2.6	8.0
11	7.2	12	19	11	20	22	30	22	15	2.2	6.1	7.6
12	7.0	12	18	11	18	23	30	25	14	3.5	6.0	7.0
13	7.0	12	17	10	18	27	26	24	9.5	2.6	6.2	7.2
14	7.9	12	16	11	20	33	23	24	8.4	2.1	4.0	8.0
15	7.6	10	15	13	19	38	24	22	7.9	2.3	86	9.8
16	6.9	9.5	14	13	27	38	32	21	6.2	2.4	295	11
17	7.4	8.9	12	14	28	36	34	23	4.7	2.1	126	12
18	8.3	10	12	15	32	36	30	22	4.8	1.9	62	12
19	9.0	16	10	14	29	32	32	21	2.8	3.5	41	10
20	9.0	19	11	13	28	28	36	20	2.0	4.7	37	11
21	8.4	15	13	14	29	27	31	19	1.1	7.7	26	12
22	7.9	14	14	15	30	26	26	22	1.5	15	16	11
23	7.4	13	16	16	28	25	27	134	5.5	28	11	12
24	7.6	12	20	16	26	23	33	956	7.4	20	8.6	11
25	8.1	11	21	15	24	20	33	631	5.2	11	6.4	26
26	7.9	12	21	15	24	19	31	312	2.4	9.0	7.0	42
27	7.7	9.8	20	14	25	18	45	214	2.3	6.0	5.9	38
28	8.3	9.0	20	16	28	17	106	118	2.0	3.6	4.8	27
29	8.1	9.6	20	17	29	23	73	81	2.4	9.9	4.3	25
30	8.3	10	19	17	---	48	45	61	3.6	29	2.4	23
31	9.3	---	16	17	---	80	---	51	---	42	4.0	---
TOTAL	255.5	350.8	504	403.6	657	873	1241	3069	621.7	247.6	967.3	403.6
MEAN	8.24	11.7	16.3	13.0	22.7	28.2	41.4	99.0	20.7	7.99	31.2	13.5
MAX	16	19	25	17	32	80	106	956	117	42	295	42
MIN	6.5	8.9	10	9.0	14	17	23	17	1.1	1.9	2.4	7.0
AC-FT	507	696	1000	801	1300	1730	2460	6090	1230	491	1920	801
CAL YR 1975	TOTAL	28663.3	MEAN	78.5	MAX	1940	MIN	6.5	AC-FT	56850		
WTR YR 1976	TOTAL	9594.1	MEAN	26.2	MAX	956	MIN	1.1	AC-FT	19030		

KANSAS RIVER BASIN

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06880520 BIG BLUE RIVER BELOW SEWARD, NE

LOCATION.--Lat 40°52'15", long 97°04'28", in NE1/4NE1/4NW1/4 sec.3, T.10 N., R.3 E., Seward County, Hydrologic Unit 10270202, at bridge on county road about 2.5 mi (4.0 km) southeast of Seward.

PERIOD OF RECORD.--Water year 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DIS-SOLVED OXYGEN (MG/L) (00300)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)
OCT											
14...	1330	11	652	7.9	20.0	45	6.0	44	600	580	12
NOV											
18...	1130	12	653	8.1	9.0	25	9.1	14	2500	410	14
DEC											
09...	1500	22	724	7.9	1.0	5	11.8	22	3400	3200	20
JAN											
21...	1345	17	741	7.7	.5	4	15.5	15	800	640	18
FEB											
12...	1315	21	626	7.8	1.5	5	16.5	3.5	400	680	16
MAR											
05...	1245	25	674	7.7	.5	8	14.6	5.0	2530	2300	15
APR											
13...	0940	33	814	8.1	14.0	8	8.9	34	3400	860	15
MAY											
26...	1000	327	279	7.2	15.0	1100	5.6	13	23330	3500	7.8
JUN											
16...	1300	5.9	618	7.2	20.0	50	6.0	40	3100	600	19
JUL											
07...	1230	6.9	632	7.5	24.0	50	4.3	24	1930	1200	86
AUG											
18...	0915	67	295	7.1	23.5	--	4.3	13	15500	5600	7.0
SEP											
07...	1030	8.4	601	7.7	22.5	70	2.9	--	9600	960	27

DATE	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DIS-SOLVED PHOSPHORUS (P) (MG/L) (00666)
OCT										
14...	403	.55	12.0	.47	.29	2.5	2.8	3.3	1.2	.89
NOV										
18...	410	.56	13.3	1.0	.61	3.2	3.8	4.8	1.1	1.0
DEC										
09...	--	.59	26.0	1.7	.88	1.4	2.3	4.0	.69	.63
JAN										
21...	462	.63	21.2	1.5	.66	1.4	2.1	3.6	.76	.67
FEB										
12...	401	.55	22.7	1.1	.81	1.1	1.9	3.0	.56	.51
MAR										
05...	--	.54	26.7	.78	.87	1.4	2.3	3.1	.58	.50
APR										
13...	505	.69	46.2	.40	.02	3.6	3.6	4.0	.55	.33
MAY										
26...	--	.22	141	1.8	.58	9.0	9.6	11	2.5	.33
JUN										
16...	406	.55	6.51	3.2	.01	1.3	1.3	4.5	1.2	1.0
JUL										
07...	533	.72	9.93	1.5	.95	2.0	2.9	4.4	1.4	.82
AUG										
18...	130	.18	23.5	2.6	.31	2.4	2.7	5.3	.93	.40
SEP										
07...	--	.54	9.00	.83	.23	2.9	3.1	3.9	1.4	.86

KANSAS RIVER BASIN

06880520 BIG BLUE RIVER BELOW SEWARD, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
DEC 09...	1500	15	280	4	81	19	46	1.2	9.8	337
MAR 05...	1245	4	250	0	72	18	40	1.1	9.1	324
MAY 26...	1000	100	86	0	23	6.9	16	.8	12	108
SEP 07...	1030	25	240	0	71	15	38	1.1	19	294

DATE	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (MG/L) (01000)	DIS- SOLVED BORON (B) (MG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (MG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (MG/L) (01030)
DEC 09...	0	276	71	.3	24	437	--	90	--	--
MAR 05...	0	266	68	.3	14	396	5	70	1	0
MAY 26...	0	89	31	.3	9.8	160	--	40	--	--
SEP 07...	0	241	59	.4	22	397	8	100	6	10

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE D MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
DEC 09...	--	10	--	110	--	--	--	--	--	--
MAR 05...	5	10	2	260	.0	.0	.0	4	0	0
MAY 26...	--	20	--	0	--	--	--	--	--	--
SEP 07...	4	30	3	290	--	--	.1	3	0	40

KANSAS RIVER BASIN

299

06880556 WEST FORK BIG BLUE RIVER BELOW HASTINGS, NE

LOCATION.--Lat 40°36'09", long 98°20'02", in NW1/4NW1/4SW1/4 sec.3, T.7 N., R.9 W., Adams County, Hydrologic Unit 10270203, at bridge on county road 1.4 mi (2.3 km) north of U.S. Highway 6 and about 1.5 mi (2.4 km) northeast of Hastings.

PERIOD OF RECORD.--Water year 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN 5 DAY DEMAND (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT											
14...	1720	25	536	7.7	18.0	25	8.1	48	240000	3900	28
NOV											
25...	0815	4.8	840	7.3	3.0	20	6.8	42	860000	12000	57
DEC											
22...	1700	14	980	7.4	6.0	6	6.8	26	540000	3000	56
JAN											
19...	1700	6.3	850	7.4	7.0	15	7.4	--	102000	800	59
FEB											
17...	1730	11	760	7.5	9.0	12	6.8	9.0	390000	1500	54
MAR											
16...	1730	8.2	680	7.3	13.0	10	8.4	11	120000	900	46
APR											
26...	1800	6.5	800	7.2	14.0	15	6.6	12	172000	2300	71
MAY											
24...	1815	8.0	640	7.3	16.0	15	6.0	11	310000	7100	46
JUN											
21...	1730	6.6	780	7.4	24.0	20	4.3	14	320000	3500	41
JUL											
20...	0745	18	560	7.6	22.0	65	5.3	25	590000	6100	24
AUG											
16...	1800	22	710	7.5	26.0	25	5.1	8.2	740000	5500	33
SEP											
27...	1800	40	640	7.5	16.0	25	7.0	34	520000	11000	35

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT										
14...	--	.44	22.1	4.5	2.3	2.0	4.3	8.8	2.2	2.2
NOV										
25...	470	.64	6.09	9.2	4.9	.10	5.0	14	9.8	9.5
DEC										
22...	452	.61	17.1	8.3	4.8	6.2	11	19	9.4	8.5
JAN										
19...	--	.57	7.08	6.8	2.7	2.0	4.7	12	7.9	7.8
FEB										
17...	419	.57	12.4	11	.92	3.3	4.2	15	7.5	7.0
MAR										
16...	428	.58	9.48	11	3.4	7.6	11	22	7.6	7.4
APR										
26...	463	.63	8.13	12	1.4	2.9	4.3	16	8.1	7.7
MAY										
24...	353	.48	7.62	9.0	2.3	2.1	4.4	13	4.8	4.2
JUN										
21...	397	.54	7.07	5.6	2.7	2.3	5.0	11	5.6	5.2
JUL										
20...	--	.44	15.8	2.7	.77	.43	1.2	3.9	1.8	1.6
AUG										
16...	392	.53	23.3	5.5	1.8	--	--	--	2.3	2.2
SEP										
27...	330	.45	35.6	5.2	3.6	--	--	--	2.7	2.5

KANSAS RIVER BASIN

06880556 WEST FORK BIG BLUE RIVER BELOW HASTINGS, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
OCT 14...	1720	15	170	4	54	8.4	41	1.4	10	202
JAN 19...	1700	20	170	14	52	9.8	74	2.5	14	191
JUL 20...	0745	25	180	14	57	9.5	37	1.2	9.6	204

DATE	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
OCT 14...	0	166	60	.6	25	327	--	120	--	--
JAN 19...	0	157	82	.4	30	416	0	350	1	0
JUL 20...	0	167	62	.4	26	326	5	110	1	0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
OCT 14...	--	20	--	20	--	--	--	--	--	--
JAN 19...	19	60	7	20	.2	.0	.2	3	1	60
JUL 20...	3	30	6	20	.2	.1	.1	5	0	20

KANSAS RIVER BASIN

301

06880800 WEST FORK BIG BLUE RIVER NEAR DORCHESTER, NE

LOCATION.--Lat 40°43'52", long 97°10'38", in SW1/4SW1/4 sec.23, T.9 N., R.2 E., Seward County, Hydrologic Unit 10270203, on right bank 60 ft (18 m) downstream from bridge on county road, 6.2 mi (10.0 km) northwest of Dorchester, and 19 mi (31 km) upstream from mouth.

DRAINAGE AREA.--1,206 mi² (3,124 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1958 to current year.

REVISED RECORDS.-- WSP 1919: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,403.48 ft (427.781 m) above mean sea level. Prior to Apr. 14, 1970, at site 60 ft (18 m) upstream at same datum.

REMARKS.--Records fair except those for winter period, which are poor. Some diversion by pumping for irrigation above station. Natural flow of stream affected by ground-water withdrawals for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--18 years, 170 ft³/s (4.814 m³/s), 123,200 acre-ft/yr (0.152 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s (323 m³/s) Mar. 20, 1969, gage height, 20.34 ft (6.200 m); minimum daily, 14 ft³/s (0.40 m³/s) July 13, 14, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 10, 1950, reached a stage of 24.8 ft (7.56 m), present datum, from floodmarks, discharge, 49,400 ft³/s (1,400 m³/s), from contracted-opening and flow-over-road measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 878 ft³/s (24.9 m³/s) May 24, gage height, 8.25 ft (2.515 m), no peak above base of 1500 ft³/s (42.5 m³/s); minimum daily, 14 ft³/s (0.40 m³/s) July 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	46	52	53	54	54	86	88	62	30	54	29
2	37	44	48	43	55	54	79	78	53	40	60	28
3	36	41	49	42	54	54	74	74	55	45	52	28
4	37	41	52	42	50	50	72	68	53	36	50	27
5	35	41	56	45	47	45	69	63	52	31	41	25
6	35	41	56	43	45	47	68	61	51	26	42	27
7	35	41	55	40	50	54	70	59	49	26	38	24
8	36	41	56	41	56	56	69	57	49	24	43	32
9	35	41	56	43	60	57	67	56	48	26	35	38
10	36	42	55	48	56	56	68	54	46	23	26	37
11	37	43	55	52	55	56	64	53	46	21	23	29
12	37	41	56	52	55	55	61	56	45	16	27	29
13	37	41	58	49	53	53	59	56	45	14	28	29
14	37	41	58	48	54	66	58	55	45	14	31	29
15	37	41	34	54	55	67	60	56	43	16	38	30
16	38	42	38	52	58	63	79	54	44	18	42	29
17	44	43	40	50	60	63	91	56	44	18	42	30
18	45	43	36	54	59	62	94	56	40	83	36	30
19	46	47	56	50	59	62	79	53	40	478	33	30
20	46	58	54	48	59	57	76	49	44	244	30	30
21	46	47	50	54	60	56	77	47	42	222	32	29
22	48	46	52	56	59	56	72	49	41	157	32	28
23	47	54	56	54	59	55	70	221	41	93	30	29
24	47	52	56	50	56	54	80	460	48	67	24	29
25	47	52	54	48	56	52	125	179	43	58	24	40
26	49	50	54	47	56	52	82	151	41	52	24	57
27	49	50	55	46	56	53	95	106	41	41	24	62
28	48	49	53	58	56	55	179	83	32	41	25	55
29	48	52	53	60	55	57	140	78	27	50	29	41
30	49	58	53	56	---	82	106	73	28	55	33	34
31	49	---	54	54	---	89	---	67	---	49	31	---
TOTAL	1290	1369	1610	1532	1607	1792	2469	2716	1338	2114	1079	994
MEAN	41.6	45.6	51.9	49.4	55.4	57.8	82.3	87.6	44.6	68.2	34.8	33.1
MAX	49	58	58	60	60	89	179	460	62	478	60	62
MIN	35	41	34	40	45	45	58	47	27	14	23	24
AC-FT	2560	2720	3190	3040	3190	3550	4900	5390	2650	4190	2140	1970
CAL YR 1975	TOTAL	48392	MEAN 133	MAX 1700	MIN 34	AC-FT 95990						
WTF YR 1976	TOTAL	19910	MEAN 54.4	MAX 478	MIN 14	AC-FT 39490						

KANSAS RIVER BASIN

06880800 WEST FORK BIG BLUE RIVER NEAR DORCHESTER, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-70, 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
OCT 17...	1015	44	570	7.7	10.0	15	10.7	4.6	270	440	17
NOV 06...	1100	42	566	7.8	14.5	20	9.6	--	270	268	20
DEC 15...	1000	28	503	7.6	.0	6	14.6	2.8	70	168	24
JAN 06...	1000	43	632	6.8	.5	5	--	--	5	26	24
FEB 17...	1315	60	571	7.6	7.0	10	7.8	1.6	57	164	24
MAR 08...	1215	56	559	7.5	1.5	10	15.0	3.2	23	80	21
APR 19...	1300	71	518	7.4	19.0	220	7.4	7.8	3100	920	18
MAY 11...	0930	54	550	7.8	14.0	90	7.4	4.6	800	640	18
JUN 02...	1050	59	546	7.7	20.0	110	7.2	3.4	1330	740	21
JUL 12...	0945	15	594	7.5	24.0	85	6.9	6.0	550	1160	14
AUG 02...	0945	64	518	7.4	20.5	180	6.6	.8	1270	2600	17
SEP 13...	1230	28	556	7.8	22.0	65	8.2	5.0	667	1380	20

DATE	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (MG/L) (00630)	TOTAL AMMONIA NITROGEN (MG/L) (00610)	TOTAL ORGANIC NITROGEN (MG/L) (00605)	TOTAL KJEL-DAHL NITROGEN (MG/L) (00625)	TOTAL NITROGEN (MG/L) (00600)	TOTAL PHOSPHORUS (MG/L) (00665)	DIS-SOLVED PHOSPHORUS (P) (MG/L) (00666)
OCT 17...	362	.49	43.0	.39	.46	.45	.91	1.3	.52	.43
NOV 06...	352	.48	39.9	.83	.04	1.3	1.3	2.1	.72	.59
DEC 15...	--	.47	26.2	1.6	.51	.89	1.4	3.0	.70	.66
JAN 06...	389	.53	45.2	2.2	.63	.77	1.4	3.6	.72	.67
FEB 17...	334	.45	54.5	1.9	.54	1.4	1.9	3.8	1.8	.75
MAR 08...	--	.47	52.3	1.8	.13	.77	.90	2.7	.71	.71
APR 19...	326	.44	62.6	2.1	.18	2.2	2.4	4.5	1.3	.74
MAY 11...	359	.49	52.3	1.9	.03	2.1	2.1	4.0	.81	.47
JUN 02...	--	.41	48.6	2.4	.08	1.6	1.7	4.1	1.0	.58
JUL 12...	374	.51	15.1	1.5	.10	1.0	1.1	2.6	.75	.53
AUG 02...	328	.45	56.7	1.9	.05	1.8	1.8	3.7	.88	.58
SEP 13...	--	.47	26.6	1.5	.07	1.2	1.3	2.8	.81	.60

KANSAS RIVER BASIN

303

06880800 WEST FORK BIG BLUE RIVER NEAR DORCHESTER, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
DEC 15...	1000	5	230	18	72	13	37	1.1	7.7	262
MAR 08...	1215	5	210	2	65	11	34	1.0	7.4	251
JUN 02...	1050	7	180	0	53	12	35	1.1	9.0	235
SEP 13...	1230	18	210	9	65	12	32	1.0	10	247

DATE	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
DEC 15...	0	215	57	.5	6.3	347	--	50	--	--
MAR 08...	0	206	55	.3	24	342	4	70	2	0
JUN 02...	0	193	51	.3	4.7	302	--	50	--	--
SEP 13...	0	203	63	.4	24	348	2	70	1	0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
DEC 15...	--	40	--	240	--	--	--	--	--	--
MAR 08...	17	10	1	240	.0	.0	.0	6	0	20
JUN 02...	--	10	--	40	--	--	--	--	--	--
SEP 13...	5	10	1	70	.0	.0	.0	3	0	10

KANSAS RIVER BASIN

06881000 BIG BLUE RIVER NEAR CRETE, NE

LOCATION.--Lat 40°35'47", long 96°57'36", in SW1/4SE1/4 sec.3, T.7 N., R.4 E., Saline County, Hydrologic Unit 10270202, on downstream side of right pier of highway bridge, 1.8 mi (2.9 km) south of Missouri Pacific Railroad station in Crete, 3.3 mi (5.3 km) downstream from Walnut Creek, and 3.6 mi (5.8 km) upstream from Squaw Creek.

DRAINAGE AREA.--2,716 mi² (7,034 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1945 to current year. Prior to Oct. 1, 1953, discharge published only for stages above 12.0 ft because of variable backwater from dam downstream until 1952 and diurnal fluctuation from powerplant upstream in 1952-53.

REVISED RECORDS.-- WSP 1919: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,311.7 ft (399.81 m) above mean sea level. Prior to Jan. 20, 1954, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by ground-water and surface-water withdrawals for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--23 years (1953-76), 340 ft³/s (9.629 m³/s), 246,300 acre-ft/yr (0.304 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,600 ft³/s (782 m³/s) July 10, 1950, gage height, 28.74 ft (8.760 m); maximum gage height, 29.80 ft (9.083 m) June 16, 1967; minimum daily discharge, 7.4 ft³/s (0.21 m³/s) July 15, 16, Aug. 14, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,250 ft³/s (35.4 m³/s) May 25, gage height, 10.97 ft (3.344 m), no peak above base of 3,000 ft³/s (85.0 m³/s); minimum daily, 7.4 ft³/s (0.21 m³/s) July 15, 16, Aug. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	82	68	76	99	116	209	219	161	9.0	44	26
2	71	81	80	74	100	115	214	179	149	12	50	23
3	74	82	97	70	99	114	225	156	160	27	55	25
4	72	81	97	66	84	98	203	145	164	48	52	27
5	69	76	105	88	86	113	170	135	151	38	42	27
6	66	74	85	78	82	121	154	127	132	36	28	27
7	62	75	103	68	78	122	148	119	120	27	23	27
8	62	76	99	74	95	129	146	112	112	23	23	28
9	61	79	95	80	103	115	141	107	107	18	23	37
10	60	82	94	86	108	117	138	104	102	15	23	50
11	61	80	98	68	107	116	135	100	97	9.8	14	45
12	61	82	95	70	115	117	133	109	94	11	8.2	47
13	59	80	97	70	113	113	128	112	89	18	8.2	52
14	59	79	105	68	110	119	126	109	85	12	7.4	46
15	59	79	38	76	108	123	125	107	80	7.4	15	48
16	58	78	52	74	118	136	130	105	75	7.4	23	52
17	59	80	50	80	120	130	133	103	69	12	175	56
18	64	80	100	76	125	132	148	101	65	7.4	183	54
19	69	89	76	84	123	130	161	99	57	34	97	55
20	70	113	74	74	126	128	152	98	53	367	57	54
21	71	94	70	79	132	126	140	97	49	227	42	51
22	73	82	76	88	128	122	137	110	46	203	39	49
23	75	86	80	90	127	119	143	123	44	155	41	49
24	77	86	82	91	124	117	146	463	44	100	37	48
25	79	70	82	76	119	116	145	1200	41	74	18	67
26	79	66	82	70	118	115	179	841	39	67	11	77
27	78	68	80	64	117	113	174	483	34	55	14	101
28	81	60	82	72	117	111	190	382	32	43	9.0	110
29	80	84	82	94	117	117	308	260	30	33	15	99
30	80	72	82	100	---	155	296	206	22	41	25	78
31	82	---	80	96	---	181	---	178	---	50	27	---
TOTAL	2143	2396	2586	2420	3198	3796	4977	6789	2503	1787.0	1228.8	1535
MEAN	69.1	79.9	83.4	78.1	110	122	166	219	83.4	57.6	39.6	51.2
MAX	82	113	105	100	132	181	308	1200	164	367	183	110
MIN	58	60	38	64	78	98	125	97	22	7.4	7.4	23
AC-FT	4250	4750	5130	4800	6340	7530	9870	13470	4960	3540	2440	3040
CAI YR 1975	TOTAL	94448.0	MEAN	259	MAX	3070	MIN	38	AC-FT	187300		
WTR YR 1976	TOTAL	35358.8	MEAN	96.6	MAX	1200	MIN	7.4	AC-FT	70130		

06881000 BIG BLUE RIVER NEAR CRETE, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961-63, 1968 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1961 to September 1962, April 1968 to current year.

SEDIMENT RECORDS: October 1961 to September 1962.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.5°C July 20, 21, 1974; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 30.5°C July 11; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
OCT											
17...	1300	58	689	7.7	14.0	40	11.2	22	1600	404	28
NOV											
06...	1500	75	632	7.5	15.5	20	8.9	--	260	180	24
DEC											
15...	1100	38	640	7.7	.5	30	12.7	16	<10	288	20
JAN											
06...	1200	77	716	7.2	.5	7	--	17	120	36	27
FEB											
17...	1055	120	597	7.7	4.5	15	12.8	2.6	143	460	22
MAR											
08...	1000	135	571	7.5	2.0	30	15.0	6.8	10760	2640	17
APR											
19...	1100	134	140	7.2	18.0	140	7.5	35	2100	1040	23
MAY											
11...	1200	100	619	8.0	17.0	85	7.6	14	5700	520	20
25...	1000	1220	167	7.2	15.5	--	4.9	13	34000	7200	4.4
JUN											
02...	1345	145	516	7.5	23.0	140	6.8	14	900	420	--
JUL											
12...	1310	11	645	7.8	28.0	15	8.1	27	212	172	23
AUG											
02...	1200	50	541	8.2	23.5	30	8.0	9.5	320	260	17
SEP											
13...	0930	53	577	7.9	19.0	55	7.1	16	26	5000	19

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	DISSOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (MG/L) (00630)	TOTAL AMMONIA NITROGEN (MG/L) (00610)	TOTAL ORGANIC NITROGEN (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (MG/L) (00625)	TOTAL NITROGEN (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DISSOLVED PHOSPHORUS (P) (MG/L) (00666)
OCT										
17...	414	.56	64.8	.35	.70	2.3	3.0	3.4	.77	.49
NOV										
06...	340	.46	68.9	.60	.16	1.6	1.8	2.4	.84	.58
DEC										
15...	--	.51	38.8	1.4	.83	1.6	2.4	3.8	.76	.58
JAN										
06...	448	.61	93.1	2.0	.69	1.3	2.0	4.0	.73	.66
FEB										
17...	365	.50	118	1.7	.35	1.2	1.5	3.2	.66	.51
MAR										
08...	--	.47	125	1.5	.33	1.2	1.5	3.0	.67	.51
APR										
19...	387	.53	140	1.5	.09	2.9	3.0	4.5	.91	.59
MAY										
11...	399	.54	108	1.7	.04	2.7	2.7	4.4	.84	.49
25...	--	.15	352	2.4	.55	17	18	20	5.3	.24
JUN										
02...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	394	.54	11.7	.40	1.2	.80	2.0	2.4	1.2	.91
AUG										
02...	350	.48	47.3	.94	.25	1.8	2.0	2.9	.66	.50
SEP										
13...	--	.49	51.7	.00	.01	2.5	2.5	2.5	.83	.53

KANSAS RIVER BASIN

06881000 BIG BLUE RIVER NEAR CRETE, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)
DEC 15...	1100	10	--	250	10	76	14	37	1.0	7.6	289	0
MAR 08...	1000	5	--	220	3	67	13	35	1.0	7.8	265	0
MAY 25...	1000	310	390	55	0	16	3.6	7.9	.5	7.9	68	0
SEP 13...	0930	50	--	220	3	67	13	35	1.0	10	266	0

DATE	ALKA- LITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L) (00608)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L) (00607)	SUS- PENDE KJEL. NITRO- GEN (N) (MG/L) (00624)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L) (00623)	TOTAL ARSENIC (AS) (UG/L) (01002)
------	---	---	---	---	--	--	--	--	---	--	---

DEC 15...	237	55	.5	25	378	--	--	--	--	--	--
MAR 08...	217	53	.3	20	344	--	--	--	--	--	--
MAY 25...	56	12	.3	8.5	107	2.4	.46	2.3	15	2.8	100
SEP 13...	218	66	.4	19	361	--	--	--	--	--	--

DATE	SUS- PENDE ARSENIC (AS) (UG/L) (01001)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	TOTAL CAD- MIUM (CD) (UG/L) (01027)	SUS- PENDE CAD- MIUM (CD) (UG/L) (01026)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	TOTAL CHRO- MIUM (CR) (UG/L) (01034)	SUS- PENDE CHRO- MIUM (CR) (UG/L) (01031)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS- PENDE COBALT (CO) (UG/L) (01036)
------	---	--	---	--	--	---	---	---	--	--	--

DEC 15...	--	--	30	--	--	--	--	--	--	--	--
MAR 08...	--	2	70	--	--	2	--	--	0	--	--
MAY 25...	98	2	20	1	1	0	10	0	<10	47	47
SEP 13...	--	6	70	--	--	2	--	--	0	--	--

DATE	DIS- SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS- PENDE COPPER (CU) (UG/L) (01041)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	SUS- PENDE LEAD (PB) (UG/L) (01050)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN- GANESE (MN) (UG/L) (01055)	SUS- PENDE MAN- GANESE (MN) (UG/L) (01054)
------	---	--	--	---	---	--	--	--	---	--	--

DEC 15...	--	--	--	--	30	--	--	--	--	--	--
MAR 08...	--	--	--	6	10	--	--	--	2	--	--
MAY 25...	0	10	0	10	80	130000	10	4	6	3100	3100
SEP 13...	--	--	--	4	20	--	--	--	0	--	--

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	SUS- PENDE SELE- NIUM (SE) (UG/L) (01146)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS- PENDE ZINC (ZN) (UG/L) (01091)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
------	---	---	---	--	---	---	--	---	--	--	---

DEC 15...	360	--	--	--	--	--	--	--	--	--	--
MAR 08...	200	.0	.0	.0	--	--	5	0	--	--	10
MAY 25...	0	<.5	.0	<.5	10	10	0	0	550	550	0
SEP 13...	110	.0	.0	.0	--	--	3	0	--	--	0

KANSAS RIVER BASIN

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06881000 BIG BLUE RIVER NEAR CRETE, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS- SOLVED PCB (UG/L) (39517)	DIS- SOLVED ALDRIN (UG/L) (39331)	DIS- SOLVED CHLOR- DANE (UG/L) (39352)	DIS- SOLVED DDD (UG/L) (39361)	DIS- SOLVED DDE (UG/L) (39366)	DIS- SOLVED DDT (UG/L) (39371)	DIS- SOLVED DI- AZINON (UG/L) (39572)	DIS- SOLVED DI- ELDRIN (UG/L) (39381)	DIS- SOLVED ENDRIN (UG/L) (39391)	
MAY 25...	1000	.0	.00	.0	.00	.00	.00	.10	.01	.00	
DATE		DIS- SOLVED HEPTA- CHLOR (UG/L) (39411)	DIS- SOLVED HEPTA- EPOXIDE (UG/L) (39421)	DIS- SOLVED LINDANE (UG/L) (39341)	DIS- SOLVED MALA- THION (UG/L) (39532)	DIS- SOLVED METHYL PARA- THION (UG/L) (39602)	DIS- SOLVED PARA- THION (UG/L) (39542)	DIS- SOLVED TOX- APHENE (UG/L) (39401)	DIS- SOLVED 2,4-D (UG/L) (39732)	DIS- SOLVED 2,4,5-T (UG/L) (39742)	DIS- SOLVED SILVEX (UG/L) (39762)
MAY 25...	.00	.00	.01	.00	.00	.00	0	.41	.02	.00	

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	10.5	14.0	12.5	1.5	0.0	1.0	0.5	2.0	0.5	7.5	5.0
2	14.0	10.5	13.0	12.0	2.5	0.5	1.0	0.0	1.5	0.5	5.5	5.0
3	15.0	11.5	13.5	12.5	2.0	1.0	0.5	0.5	2.5	0.5	5.0	3.0
4	15.5	12.0	13.5	12.0	2.5	1.0	0.0	0.0	1.0	0.5	4.5	1.5
5	16.0	13.0	13.5	13.0	3.5	1.5	0.0	0.0	1.0	0.5	5.0	1.5
6	16.5	13.0	14.5	13.0	3.0	1.0	0.0	0.0	2.0	0.5	4.5	1.0
7	17.5	14.0	14.0	12.5	2.5	1.0	0.0	0.0	2.0	0.0	4.5	1.5
8	17.5	14.0	13.5	11.5	3.0	2.0	0.0	0.0	3.5	1.0	4.5	2.0
9	16.5	13.5	12.0	9.5	3.5	2.5	0.0	0.0	2.5	1.0	7.5	3.0
10	16.0	13.0	9.5	7.0	4.5	2.5	1.0	0.0	3.0	1.5	9.0	6.0
11	18.0	13.5	9.0	7.0	4.5	4.0	2.0	0.5	3.5	1.0	9.0	6.5
12	20.5	16.5	8.0	5.0	4.5	3.5	2.5	0.5	4.0	1.0	8.5	3.5
13	21.0	17.5	5.0	3.0	5.5	3.5	2.0	0.5	3.5	1.0	6.0	1.0
14	19.5	16.0	5.0	3.0	6.0	1.5	1.5	0.0	4.5	1.0	5.5	3.5
15	17.5	13.5	6.0	4.0	4.0	1.5	2.0	0.5	6.0	4.5	5.5	3.0
16	14.5	11.5	7.0	5.0	3.5	1.5	2.0	0.5	6.0	5.0	7.0	3.0
17	15.0	12.5	9.0	6.5	1.5	1.5	1.5	0.5	6.0	4.0	9.5	4.5
18	14.0	11.0	11.0	9.0	1.0	1.0	2.0	0.5	7.0	4.5	12.0	8.5
19	13.5	10.5	11.0	7.0	2.5	1.5	2.0	0.5	6.5	4.5	14.0	10.0
20	14.5	11.0	7.0	2.0	2.5	1.5	1.5	0.0	7.5	5.0	13.5	11.0
21	15.0	12.5	2.0	0.5	2.5	1.0	2.5	0.5	7.5	2.0	12.0	8.0
22	17.0	13.5	2.0	0.0	2.5	1.5	2.0	0.5	4.0	0.5	12.0	8.5
23	17.0	14.0	2.0	0.0	1.5	1.5	2.5	0.5	6.0	2.5	12.0	8.5
24	14.0	11.0	1.0	0.0	1.5	1.0	2.5	1.0	7.5	4.5	14.0	10.0
25	11.0	8.0	0.5	0.0	1.5	1.0	2.0	1.0	8.5	6.0	14.0	10.5
26	10.0	7.5	1.0	0.0	2.0	1.0	1.5	1.0	8.5	6.0	14.0	10.5
27	11.0	9.5	1.0	0.0	2.0	1.5	1.5	1.0	10.5	7.0	12.0	7.5
28	11.0	9.0	1.0	0.0	1.5	1.5	4.5	1.0	10.5	7.5	12.0	9.5
29	10.5	8.0	1.5	0.0	1.5	1.0	3.0	1.0	10.5	7.5	11.0	6.5
30	11.0	8.0	1.0	0.5	1.5	0.5	2.0	1.0	---	---	9.0	4.5
31	14.0	11.0	---	---	1.5	0.5	2.5	0.5	---	---	10.5	7.5
MONTH	21.0	7.5	14.5	0.0	6.0	0.0	4.5	0.0	10.5	0.0	14.0	1.0

KANSAS RIVER BASIN

06881000 BIG BLUE RIVER NEAR CRETE, NE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	7.5	16.0	12.0	23.0	19.5	26.5	17.0	27.0	23.0	26.5	20.0
2	13.5	9.5	16.0	14.0	23.5	21.5	21.5	17.5	27.5	23.5	26.5	19.5
3	13.5	10.5	15.5	11.0	24.0	20.5	21.5	18.5	26.5	20.0	27.0	19.0
4	12.0	10.5	17.5	12.5	23.5	20.0	25.5	19.0	26.5	21.0	25.0	19.0
5	14.5	9.5	17.0	15.0	24.0	21.0	27.0	19.0	27.5	22.0	25.5	18.5
6	15.0	12.5	16.5	13.0	24.0	21.0	27.5	20.0	24.5	19.5	27.0	20.0
7	15.0	13.0	17.0	12.0	24.5	21.0	26.0	21.5	24.0	20.0	26.0	20.0
8	14.0	12.5	18.0	13.0	25.0	21.0	28.0	20.0	28.0	23.5	22.0	17.5
9	15.0	11.0	17.5	14.5	25.5	21.5	28.5	20.5	28.5	22.0	20.5	14.5
10	17.0	12.5	19.5	14.0	26.5	22.0	29.5	18.0	26.5	22.0	20.0	14.5
11	17.0	14.5	20.0	15.5	25.5	22.0	30.5	18.5	26.0	21.0	21.5	15.5
12	15.5	11.5	19.5	15.5	26.0	21.0	28.5	18.5	25.5	20.0	23.0	17.5
13	17.5	14.0	18.0	14.5	25.0	19.0	26.5	17.5	25.5	19.5	22.5	19.0
14	20.5	16.5	19.0	15.0	24.0	20.5	26.0	17.0	25.0	20.0	23.0	19.0
15	21.5	18.5	19.0	16.0	21.5	16.5	24.5	17.0	22.5	19.5	21.0	18.5
16	20.0	17.5	17.5	15.0	22.0	15.5	25.0	14.0	23.0	19.0	19.5	17.5
17	18.5	16.0	18.0	12.0	21.5	18.0	22.5	15.0	26.5	20.0	20.5	17.5
18	18.0	16.0	19.0	14.0	21.5	16.5	25.5	14.5	27.0	21.5	23.0	17.5
19	18.5	16.0	21.0	15.0	23.5	16.0	23.5	16.5	27.5	22.0	22.5	19.5
20	18.0	15.0	23.0	17.0	25.5	17.5	24.0	20.0	27.0	20.0	19.5	16.0
21	17.5	13.0	23.0	19.5	24.5	19.0	23.5	21.5	27.0	21.5	20.0	15.5
22	19.0	16.0	23.0	19.5	26.5	18.5	28.0	23.5	27.5	22.0	21.0	15.5
23	21.0	17.5	20.5	16.5	22.5	19.0	28.0	23.5	27.0	23.0	20.0	17.0
24	20.5	14.5	16.5	15.0	25.0	18.0	27.5	22.0	27.5	24.5	20.0	16.0
25	16.0	12.0	17.0	15.5	26.0	18.0	27.0	23.0	28.0	21.5	19.5	17.5
26	16.0	13.5	18.5	17.0	27.5	19.0	27.0	23.0	28.5	19.0	18.0	16.5
27	13.5	12.0	21.0	18.0	27.0	19.5	27.5	22.5	25.5	19.5	18.0	15.5
28	12.5	11.5	21.5	19.5	28.5	21.5	27.5	22.0	26.0	15.0	16.5	14.5
29	12.5	11.5	22.0	20.0	27.5	21.5	26.5	22.0	25.5	16.0	15.5	12.5
30	14.5	12.0	21.5	20.0	27.5	17.5	27.5	23.5	25.0	18.0	18.0	14.0
31	---	---	22.5	18.5	---	---	27.0	23.5	25.0	18.0	---	---
MONTH	21.5	7.5	23.0	11.0	28.5	15.5	30.5	14.0	28.5	15.0	27.0	12.5

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	TEMPER- ATURE (DEG C) (00010)	SUS- PENDE SED- MENT DIS- CHARGE (MG/L) (80154)	SUS- PENDE SED- MENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN .004 MM (70338)	SUS. SED. FALL DIAM. % FINER THAN .016 MM (70340)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)
MAY 25...	1000	1220	15.5	7550	2490	62	77	87	98	100
DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	NUMBER OF SAM- PLING POINTS (00063)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. FALL SIEVE DIAM. % FINER THAN 4.00 MM (80170)
MAY 25...	1000	1220	3	6	11	35	70	89	97	100

KANSAS RIVER BASIN

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06881200 TURKEY CREEK NEAR WILBER, NE

LOCATION.--Lat 40°28'48", long 97°00'43", in NE1/4NE1/4 sec.19, T.6 N., R.4 E., Saline County, Hydrologic Unit 10270204, on left bank near downstream side of bridge on State Highway 41, 2.8 mi (4.5 km) west of Wilber.

DRAINAGE AREA.--460 mi² (1,191 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.-- WSP 1919: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,322.00 ft (402.946 m) above mean sea level (Nebraska Department of Highways bench mark). Prior to July 10, 1970, at site 0.2 mi (0.3 km) downstream at same datum.

REMARKS.--Records fair except those for winter period, which are poor. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--17 years, 78.5 ft³/s (2.223 m³/s), 56,870 acre-ft/yr (70.1 hm³/yr); median of yearly mean discharges, 52 ft³/s (1.473 m³/s), 37,700 acre-ft/yr (46.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,300 ft³/s (207 m³/s) Mar. 28, 1960, gage height, 14.92 ft (4.548 m) site then in use; maximum gage height, 17.92 ft (5.462 m) Oct. 12, 1973, from highwater mark. No flow Sept. 20, 21, 24, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 782 ft³/s (22.1 m³/s) July 20, gage height, 10.55 ft (3.216 m), no peak above base of 1,000 ft³/s (28.3 m³/s), no flow Sept. 20, 21, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	2.3	5.6	5.4	11	15	76	33	16	4.8	3.2	2.1
2	.87	2.3	5.8	5.6	11	14	48	27	14	2.7	3.7	1.9
3	.69	3.6	6.0	5.4	12	13	71	24	13	1.8	2.5	1.5
4	.44	4.2	6.4	4.0	11	11	96	20	12	1.4	.82	.59
5	.34	2.7	6.8	5.2	10	11	79	18	12	1.6	.96	.29
6	.30	3.3	7.4	5.8	9.6	12	53	17	11	1.7	.74	.13
7	.30	3.5	7.9	5.2	9.8	12	37	16	11	1.6	.58	.99
8	.26	3.5	9.4	4.6	11	15	27	15	11	1.6	1.0	4.0
9	.22	3.8	9.0	5.0	13	19	24	15	11	1.5	1.6	2.6
10	.22	4.0	8.4	5.2	14	18	19	14	11	1.6	1.6	1.5
11	.20	4.1	8.6	5.4	13	19	16	14	10	1.6	1.1	.66
12	.23	4.0	9.0	5.6	13	19	14	14	10	1.6	1.4	.98
13	.26	4.5	9.6	5.8	15	15	12	15	10	1.1	2.0	2.1
14	.38	4.3	12	4.1	16	14	19	15	9.9	.81	3.4	2.0
15	.42	3.8	31	4.4	13	12	32	15	9.4	.81	4.6	1.2
16	.40	4.0	7.0	4.9	14	14	50	15	9.3	.81	5.4	.76
17	.40	4.2	8.0	4.7	17	13	108	15	9.3	1.6	4.1	.58
18	.46	4.8	7.8	5.2	18	13	387	14	8.2	1.3	2.8	.49
19	.50	6.8	8.8	5.6	16	13	235	14	7.4	282	4.4	.08
20	.60	8.3	8.0	5.0	13	13	94	14	7.3	740	3.3	0
21	.60	7.6	7.2	5.2	11	13	57	14	6.4	434	3.9	0
22	.77	6.6	7.4	5.0	9.6	12	41	88	4.9	126	3.8	.40
23	2.0	6.0	7.2	4.9	12	10	35	131	6.8	74	3.7	.05
24	2.5	5.2	6.8	5.8	15	9.9	70	106	8.4	47	1.9	0
25	2.4	5.1	6.6	5.6	16	9.9	39	61	5.6	30	6.4	6.7
26	3.0	4.6	6.8	5.6	17	9.3	32	63	6.1	18	6.0	2.8
27	3.2	4.3	7.0	5.0	18	9.6	108	34	7.0	12	4.8	.90
28	2.3	4.1	6.8	6.0	18	9.3	91	27	5.5	7.7	4.4	.02
29	1.7	5.3	6.6	6.4	17	9.6	69	23	2.9	5.1	4.4	21
30	2.6	6.2	6.0	9.3	---	20	42	21	3.8	4.2	3.6	24
31	3.1	---	7.0	11	---	56	---	21	---	3.6	1.8	---
TOTAL	32.25	137.0	257.9	171.9	394.0	453.6	2081	933	270.2	1813.53	93.90	80.32
MEAN	1.04	4.57	8.32	5.55	13.6	14.6	69.4	30.1	9.01	58.5	3.03	2.68
MAX	3.2	8.3	31	11	18	56	387	131	16	740	6.4	24
MIN	.20	2.3	5.6	4.0	9.6	9.3	12	14	2.9	.81	.58	0
AC-FT	64	272	512	341	781	900	4130	1850	536	3600	186	159
CAI YR 1975	TOTAL	19112.78	MEAN	52.4	MAX	931	MIN	.20	AC-FT	37910		
WTR YR 1976	TOTAL	6718.60	MEAN	18.4	MAX	740	MIN	0	AC-FT	13330		

KANSAS RIVER BASIN

06881200 TURKEY CREEK NEAR WILBER, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-70, 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER (31616)	STREP- TOCOCCI (COL- ONIES PER (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT 17...	1130	.39	1890	7.1	12.0	30	8.0	3.7	66	120	430
NOV 06...	1300	2.5	740	7.5	15.0	45	6.0	--	87	720	60
DEC 15...	1200	34	615	7.7	.0	40	14.0	3.8	1670	1240	15
JAN 07...	1440	5.2	789	6.9	.0	15	11.6	4.9	8	10	58
FEB 17...	1200	17	454	8.0	1.5	15	15.3	.3	47	1580	19
MAR 08...	1100	14	566	7.6	.5	15	14.0	2.6	97	140	25
APR 23...	1200	30	500	7.4	19.0	500	7.2	7.8	3900	2440	13
MAY 11...	1045	14	570	7.8	16.5	85	6.8	4.8	420	640	31
JUN 02...	1200	14	490	7.5	21.5	170	6.4	8.2	600	560	--
JUL 12...	1100	1.4	1350	7.4	23.5	85	5.7	44	1130	1100	270
AUG 02...	1100	3.8	518	7.4	21.5	150	5.9	2.0	733	1060	56
SEP 13...	1115	2.2	597	7.8	18.0	55	6.6	8.8	1530	4700	45

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT 17...	1060	1.44	1.12	1.7	.09	1.1	1.2	2.9	.39	.29
NOV 06...	461	.63	3.11	.35	.04	1.9	1.9	2.3	.60	.46
DEC 15...	--	.42	28.6	.38	.05	1.1	1.1	1.5	.42	.29
JAN 07...	507	.69	7.12	.64	.04	.55	.59	1.2	.37	.33
FEB 17...	264	.36	12.2	.20	.04	.67	.71	.91	.23	.22
MAR 08...	--	.45	12.6	.17	.00	.90	.90	1.1	.29	.25
APR 23...	194	.26	16.0	1.5	.14	3.7	3.8	5.3	1.0	.41
MAY 11...	368	.50	13.9	1.0	.04	1.6	1.6	2.6	.56	.35
JUN 02...	--	--	--	--	--	--	--	--	--	--
JUL 12...	744	1.01	2.81	2.9	.15	1.1	1.2	4.1	.51	.35
AUG 02...	322	.44	3.30	3.7	.03	1.3	1.3	5.0	.54	.34
SEP 13...	--	.47	2.06	.00	.01	1.4	1.4	1.4	.32	.22

KANSAS RIVER BASIN

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06881200 TURKEY CREEK NEAR WILBER, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
DEC 15...	1200	35	210	21	63	12	27	.8	6.6	227
MAR 08...	1100	20	210	5	63	12	37	1.1	6.3	246
SEP 13...	1115	25	180	5	54	12	50	1.6	11	219

DATE	CAR- BONATE (MG/L) (00445)	ALKA- LINITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
DEC 15...	0	186	51	.4	24	311	--	7	--	--
MAR 08...	0	202	55	.3	14	334	4	50	3	0
SEP 13...	0	180	59	.4	3.9	343	2	80	2	10

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
DEC 15...	--	50	--	50	--	--	--	--	--	--
MAR 08...	8	10	2	110	.1	.1	.0	4	0	20
SEP 13...	4	10	2	50	.0	.0	.0	2	0	10

KANSAS RIVER BASIN

06881500 BIG BLUE RIVER AT BEATRICE NE

LOCATION.--Lat 40°15'22", long 96°44'47", in SW1/4NW1/4 sec.3, T.3 N., R.6 E., Gage County, Hydrologic Unit 10270202, at left upstream corner of 6th Street and U.S. Highway 77 bridge in Beatrice, 0.7 mi (1.1 km) south of the intersection of U.S. Highways 136 and 77, 1.2 mi (1.9 km) downstream from Indian Creek, and 3.1 mi (5.0 km) upstream from Bear Creek.

DRAINAGE AREA.--3,900 mi² (10,101 km²), of which about 3,830 mi² (9,920 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1910 to September 1915, (monthly discharge only for some periods, published in WSF 1310), 1954, 1960-65, 1967-69, 1971-74 (discharge measurements only), October 1974 to current year. Gage-height records collected 1905-1910, 1916-1974 are in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 1,219.90 ft (371.826 m) above mean sea level. October 1910 to September 1915 non-recording gage at present site and datum.

REMARKS.--Records good except those for winter period, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,000 ft³/s (935 m³/s) July 23, 1911, gage height, 26.00 ft (7.925 m); minimum daily, 20 ft³/s (0.57 m³/s) Aug. 15, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since 1902, 49,100 ft³/s (1,390 m³/s) October 12, 1973, gage height, 33.02 ft (10.064 m), from floodmark.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,400 ft³/s (68.0 m³/s) July 21, gage height, 7.86 ft (2.396 m), no peak above base of 4,000 ft³/s (113 m³/s); minimum daily, 20 ft³/s (0.57 m³/s) Aug. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	112	130	125	145	166	428	438	288	92	82	42
2	81	115	160	125	135	163	437	356	253	90	94	50
3	93	121	180	120	160	159	370	294	238	155	85	47
4	96	121	163	116	140	135	349	260	235	115	77	37
5	81	128	159	140	120	130	353	245	257	118	87	30
6	102	122	145	135	110	165	310	225	230	111	77	42
7	90	114	152	120	120	170	513	211	216	121	67	38
8	96	112	145	120	140	174	444	199	205	87	57	35
9	93	114	148	130	160	181	321	192	197	87	50	47
10	90	118	146	140	177	202	274	182	190	87	44	54
11	87	116	145	100	156	220	245	182	189	60	50	55
12	93	119	141	110	156	209	225	202	258	64	49	42
13	84	116	148	106	156	183	220	189	233	40	35	34
14	84	121	145	96	159	174	205	190	194	29	24	43
15	90	118	102	110	166	167	190	193	159	43	20	85
16	87	124	140	106	159	164	310	197	150	51	35	73
17	99	127	140	104	163	173	600	182	175	84	35	65
18	102	126	130	104	170	178	820	178	165	86	53	74
19	102	145	145	100	173	174	580	171	110	74	121	118
20	105	150	125	96	177	173	460	168	150	164	155	110
21	105	156	150	125	184	164	396	165	133	1780	132	59
22	108	162	145	120	188	161	382	181	85	1230	110	97
23	105	157	140	160	192	155	365	492	174	563	63	47
24	108	148	138	145	181	153	1460	842	375	363	37	96
25	102	100	140	130	181	149	1600	630	283	268	47	124
26	102	70	140	120	177	148	636	1160	179	222	48	188
27	102	96	145	110	177	144	400	946	137	190	35	167
28	102	120	160	130	181	142	539	573	156	167	26	156
29	96	180	145	150	174	209	452	471	163	127	22	133
30	99	130	160	160	---	325	449	410	110	105	23	131
31	105	---	140	140	---	383	---	363	---	91	26	---
TOTAL	2976	3758	4492	3793	4677	5593	14333	10687	5887	6864	1866	2319
MEAN	96.0	125	145	122	161	180	478	345	196	221	60.2	77.3
MAX	108	180	180	160	192	383	1600	1160	375	1780	155	188
MIN	81	70	102	96	110	130	190	165	85	29	20	30
AC-FT	5900	7450	8910	7520	9280	11090	28430	21200	11680	13610	3700	4600
CAL YR 1975	TOTAL	150786	MEAN 413	MAX 4250	MIN 70	AC-FT 299100						
WTR YR 1976	TOTAL	67245	MEAN 184	MAX 1780	MIN 20	AC-FT 133400						

KANSAS RIVER BASIN

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06881502 BIG BLUE RIVER BELOW BEATRICE, NE

LOCATION.--Lat 40°14'55", long 96°42'46", in SE1/4SE1/4 sec.2, T.3 N., R.6 E., Gage County, Hydrologic Unit 10270202, at pipeline bridge about 2.0 mi (3.2 km) downstream from bridge on U.S. Highway 77, about 1.3 mi (2.1 km) southeast of Beatrice.

PERIOD OF RECORD.--Water year 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT											
15...	1000	94	759	8.4	15.0	35	11.4	32	4600	700	60
NOV											
05...	0945	127	728	7.5	16.0	35	11.0	17	3000	220	60
DEC											
16...	1230	141	727	7.8	1.0	15	14.8	9.6	1610	15500	47
JAN											
07...	1100	137	895	6.7	.0	9	14.5	11	4200	760	72
FEB											
19...	1300	172	663	7.8	6.0	7	14.1	8.1	400	144	45
MAR											
10...	1430	213	639	7.2	8.5	25	12.3	3.8	1070	1740	35
APR											
21...	1100	399	445	8.0	12.0	--	--	38	--	--	24
MAY											
18...	1200	180	672	8.4	16.5	35	11.1	11	340	200	46
JUN											
02...	1215	257	502	7.1	23.5	170	7.3	25	3300	1100	29
JUL											
14...	1030	25	733	8.1	28.0	45	--	42	--	1060	79
AUG											
03...	0845	83	720	8.3	21.0	6	7.8	11	4100	680	72
SEP											
23...	1400	59	686	8.3	21.0	45	10.7	--	17300	1420	53

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT										
15...	466	.63	118	.13	.49	3.1	3.6	3.7	.65	.30
NOV										
05...	446	.61	153	.79	.40	2.5	2.9	3.7	.68	.55
DEC										
16...	--	.60	168	2.0	1.1	1.9	3.0	5.0	.77	.67
JAN										
07...	550	.75	203	2.5	.98	1.1	2.1	4.6	.65	.63
FEB										
19...	403	.55	187	1.8	.22	1.3	1.5	3.3	.56	.46
MAR										
10...	--	.50	210	2.3	1.6	1.2	2.8	5.1	.65	.47
APR										
21...	283	.38	305	1.5	.19	3.5	3.7	5.2	.86	.39
MAY										
18...	438	.60	213	.57	.07	1.9	2.0	2.6	.69	.41
JUN										
02...	--	.40	203	2.4	.10	2.2	2.3	4.7	.82	.45
JUL										
14...	455	.62	31.6	.47	.43	2.2	2.6	3.1	1.0	.52
AUG										
03...	441	.60	98.8	.11	.12	.88	1.0	1.1	.72	.41
SEP										
23...	--	.57	67.1	2.2	.34	2.1	2.4	4.6	1.4	1.1

KANSAS RIVER BASIN

06881502 BIG BLUE RIVER BELOW BEATRICE, NE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA+MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
DEC 16...	1230	15	250	15	75	15	61	1.7	7.9	285
MAR 10...	1430	10	210	3	64	12	48	1.4	8.0	252
JUN 02...	1215	34	160	15	45	11	38	1.3	11	174
SEP 23...	1400	17	220	18	67	13	61	1.8	10	247

DATE	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINIT AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
DEC 16...	0	234	71	.4	24	442	--	30	--	--
MAR 10...	0	207	56	.5	17	365	3	70	1	0
JUN 02...	0	143	51	.3	21	292	--	70	--	--
SEP 23...	0	203	76	.4	19	421	9	100	0	10

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
DEC 16...	--	20	--	300	--	--	--	--	--	--
MAR 10...	4	0	5	230	.0	.0	.0	6	0	0
JUN 02...	--	50	--	20	--	--	--	--	--	--
SEP 23...	8	20	2	30	--	--	.1	3	0	0

06882000 BIG BLUE RIVER AT BARNESTON, NE

LOCATION.--Lat 40°03'11", long 96°35'16", in SE1/4NW1/4 sec.13, T.1 N., R.7 E., Gage County, Hydrologic Unit 10270202, near left bank in tailrace of powerplant, 0.8 mi (1.3 km) northwest of Barneston, 2 mi (3 km) upstream from Plum Creek, and 5 mi (8 km) upstream from Nebraska-Kansas State line.

DRAINAGE AREA.--4,444 mi² (11,510 km²), of which about 4,370 mi² (11,318 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--May 1932 to current year.

REVISED RECORDS.--WSP 896: 1932, 1935. WSP 1919: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,164.2 ft (354.85 m) above mean sea level. Prior to June 9, 1941, water-stage recorder at site 1 mi (2 km) downstream at datum 0.44 ft (0.134 m) lower. June 9 to Nov. 17, 1941, nonrecording gage at present site and datum.

REMARKS.--Records poor. Low flow regulated by powerplant at Barneston, which has pondage of about 1,500 acre-ft (1.85 km³). No large tributaries between station and Nebraska-Kansas State line. Some pump diversions for irrigation above station. Natural flow of stream affected by ground-water withdrawals for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--44 years, 762 ft³/s (21.58 m³/s), 552,100 acre-ft/yr (0.681 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,700 ft³/s (1,630 m³/s) June 9, 1941, gage height, 34.3 ft (10.45 m); minimum daily, 1 ft³/s (0.028 m³/s) Nov. 30, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,110 ft³/s (230 m³/s) Apr. 24, gage height, 13.41 ft (4.087 m), no peak above base of 10,000 ft³/s (283 m³/s); minimum daily discharge, 37 ft³/s (1.05 m³/s) Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	105	286	46	234	310	559	691	462	146	143	63
2	92	99	78	239	68	68	648	554	384	140	131	55
3	90	290	323	50	300	310	575	536	289	155	125	52
4	89	122	83	48	85	74	360	403	149	158	123	49
5	89	110	318	50	47	310	425	377	233	152	114	48
6	87	112	57	233	271	80	370	318	296	146	96	47
7	110	115	129	54	46	84	436	153	534	145	94	46
8	114	129	405	56	47	350	1970	391	132	140	92	46
9	290	108	46	277	269	90	877	127	107	135	90	47
10	99	126	54	46	47	470	560	379	120	130	88	47
11	99	108	311	51	350	196	404	146	426	121	84	46
12	96	262	192	219	47	427	175	164	269	113	78	46
13	115	108	43	47	330	541	504	407	158	94	74	48
14	97	108	83	200	45	97	140	137	376	83	72	162
15	87	108	319	45	330	374	164	186	147	74	68	51
16	84	108	46	223	45	322	1200	419	150	61	70	67
17	84	106	197	43	350	106	1550	303	151	63	72	75
18	86	101	44	203	44	289	1120	93	221	71	74	69
19	86	120	48	45	348	317	912	180	141	74	76	77
20	87	165	232	278	280	90	798	378	138	76	76	178
21	87	292	46	42	47	115	1120	125	135	988	100	101
22	92	114	230	254	50	414	1150	283	134	1460	120	37
23	89	115	60	45	350	101	349	120	133	800	94	46
24	257	136	301	223	54	382	5570	1080	467	550	78	46
25	110	213	47	42	470	87	3920	877	423	190	76	43
26	110	112	280	275	54	213	1800	1030	154	377	77	43
27	124	110	48	48	56	91	662	1190	311	147	79	66
28	105	99	65	237	400	100	920	786	147	152	69	74
29	103	82	302	46	64	274	891	646	138	153	70	98
30	115	280	49	294	---	427	668	517	141	152	69	125
31	106	---	269	43	---	821	---	454	---	149	65	---
TOTAL	3400	4163	4991	4002	5128	7930	30797	13450	7066	7395	2737	1998
MEAN	110	139	161	129	177	256	1027	434	236	239	88.3	66.6
MAX	290	292	405	294	470	821	5570	1190	534	1460	143	178
MIN	84	82	43	42	44	68	140	93	107	61	65	37
AC-FT	6740	8260	9900	7940	10170	15730	61090	26680	14020	14670	5430	3960
CAL YR 1975	TOTAL	205536	MEAN 563	MAX 6280	MIN 43	AC-FT 407700						
WTF YR 1976	TOTAL	93057	MEAN 254	MAX 5570	MIN 37	AC-FT 184600						

KANSAS RIVER BASIN

06883000 LITTLE BLUE RIVER NEAR DEWEESE, NE

LOCATION.--Lat 40°19'58", long 98°04'00", in SW1/4NW1/4 sec.12, T.4 N., R.7 W., Nuckolls County, Hydrologic Unit 10270206, on right bank 10 ft (3 m) downstream from bridge on State Highway 14, 1 mi (2 km) upstream from Walnut Creek, 3.2 mi (5.1 km) southeast of Deweese, and 6 mi (10 km) northwest of Angus.

DRAINAGE AREA.--979 mi² (2,536 km²).

PERIOD OF RECORD.--February 1953 to September 1972, Oct. 1974 to current year.

REVISED RECORDS.--WSP 1919; Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,632.67 ft (497.638 m) above mean sea level. Prior to May 16, 1957, non-recording gage at present site and datum; May 16, 1957, to Sept. 30, 1972, at site 1,500 ft (460 m) upstream at present datum.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation development above station. Periodic temperature and conductance measurements are published in tables for water quality at miscellaneous sites.

AVERAGE DISCHARGE.--21 years, 146 ft³/s (4.135 m³/s), 105,800 acre-ft/yr (0.130 km³/yr); median of yearly mean discharges, 120 ft³/s (3.398 m³/s), 86,900 acre-ft/yr (0.107 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,100 ft³/s (711 m³/s) Aug. 31, 1969, gage height, 18.57 ft (5.660 m), at previous site; minimum daily, 6.4 ft³/s (0.18 m³/s) Aug. 9, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 26, 1951, reached a stage of 14.9 ft (4.54 m), from information by local residents, discharge, 16,000 ft³/s (453 m³/s), based on records for former station at Angus.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 662 ft³/s (18.7 m³/s) Aug. 5, gage height, 4.03 ft (1.228 m); no peak above base of 1,500 ft³/s (42.5 m³/s); minimum daily, 7.8 ft³/s (0.22 m³/s) Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	54	60	60	66	62	71	79	70	55	29	14
2	45	54	68	50	67	62	71	76	69	54	23	58
3	45	56	72	42	68	60	69	73	68	50	17	29
4	46	55	70	36	50	45	69	71	66	71	13	14
5	46	56	66	50	45	40	70	71	67	53	364	9.3
6	47	56	62	52	50	56	71	65	64	41	197	9.1
7	47	57	62	40	55	67	102	63	68	36	60	8.2
8	47	56	68	35	60	68	126	66	67	34	39	11
9	46	60	74	40	65	69	88	71	72	37	32	13
10	47	59	80	42	69	71	82	69	69	35	27	13
11	48	57	76	46	65	72	77	72	71	30	25	14
12	48	56	68	48	67	85	72	81	71	26	26	13
13	48	56	65	50	67	74	71	76	66	21	27	13
14	48	58	60	50	67	73	75	77	65	21	26	13
15	47	60	54	55	70	71	155	80	62	22	28	25
16	47	60	46	60	73	70	367	78	61	29	28	21
17	49	58	37	70	71	69	210	76	59	26	26	23
18	50	60	40	66	69	70	135	78	57	23	24	25
19	51	54	54	60	67	70	96	80	52	19	22	26
20	51	42	60	53	68	68	86	79	49	19	22	129
21	52	40	64	67	72	66	83	83	37	27	20	172
22	53	56	66	67	68	66	82	98	33	110	18	99
23	52	66	62	67	67	65	80	114	48	112	18	62
24	52	67	65	67	67	65	90	111	116	97	16	63
25	50	60	65	67	66	65	147	109	205	83	16	101
26	53	52	65	50	64	65	160	112	195	65	14	347
27	54	48	68	56	65	63	114	93	140	41	14	337
28	53	48	70	64	64	67	95	84	123	38	12	157
29	52	52	70	66	64	75	90	81	83	34	10	86
30	54	54	74	65	---	84	85	74	62	30	10	70
31	55	---	70	66	---	74	---	72	---	27	7.8	---
TOTAL	1529	1667	1981	1707	1876	2077	3189	2512	2335	1366	1210.8	1974.6
MEAN	49.3	55.6	63.9	55.1	64.7	67.0	106	81.0	77.8	44.1	39.1	65.8
MAX	55	67	80	70	73	85	367	114	205	112	364	347
MIN	45	40	37	35	45	40	69	63	33	19	7.8	8.2
AC-FT	3030	3310	3930	3390	3720	4120	6330	4980	4630	2710	2400	3920
CAL YR 1975	TOTAL	65255.0	MEAN	179	MAX	4860	MIN	32	AC-FT	129400		
WTR YR 1976	TOTAL	23424.4	MEAN	64.0	MAX	367	MIN	7.8	AC-FT	46460		

06883570 (REVISED) LITTLE BLUE RIVER NEAR ALEXANDRIA, NE

LOCATION.--Lat 40°12'27", long 97°23'23", in SE1/4SE1/4 sec.23, T.3 N., R.1 W., Thayer County, Hydrologic Unit 10270206, on left bank 750 ft (229 m) upstream from bridge on State Highway 76, 2.7 mi (4.3 km) south of Alexandria, 9.8 mi (15.8 km) downstream from Dry Creek, and 5.7 mi (9.2 km) upstream from Big Sandy Creek.

DRAINAGE AREA.--1,557 mi² (4,033 km²).

PERIOD OF RECORD.--July 1959 to September 1972 (published as "near Gilead"), May 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,359.29 ft (414.312 m) above mean sea level. July 1959 to Sept. 30, 1972 at site 2.3 mi (3.7 km) upstream at datum 12.0 ft (3.66 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation development above station.

AVERAGE DISCHARGE.--15 years (1959-72, 1974-76), 229 ft³/s (6.485 m³/s), 165,900 acre-ft/yr (0.205 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,600 ft³/s (725 m³/s) Mar. 28, 1960, gage height, 17.30 ft (5.273 m), site and datum then in use; minimum daily, 13 ft³/s (0.37 m³/s) Aug. 5, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 24	1700	*3520 99.7	12.53 3.819
Aug. 5	2100	3090 87.5	12.04 3.670

Minimum daily discharge, 16 ft³/s (0.45 m³/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	79	64	74	98	84	214	178	103	98	29	19
2	59	82	86	64	98	83	161	159	103	80	26	17
3	58	84	98	58	92	81	139	147	101	68	23	17
4	57	84	96	54	70	78	130	139	98	62	25	18
5	57	86	96	54	60	68	124	135	97	61	960	25
6	57	85	92	56	50	72	120	131	97	64	1710	23
7	57	84	90	54	58	98	127	125	98	61	640	19
8	57	83	92	60	80	146	125	122	94	56	283	18
9	56	84	93	58	110	129	160	122	92	53	165	21
10	57	84	94	56	107	116	172	119	89	40	118	19
11	58	88	92	52	109	114	144	113	89	36	96	17
12	59	86	88	56	100	111	128	121	88	32	83	16
13	59	85	88	58	94	111	122	122	87	30	74	42
14	58	83	94	60	89	114	120	119	88	29	67	20
15	58	83	66	60	89	116	201	112	87	35	70	18
16	59	84	40	62	90	114	1210	109	86	31	118	18
17	60	86	38	62	92	111	1290	112	85	266	106	19
18	61	88	42	64	90	108	526	105	85	78	78	20
19	64	96	44	68	89	108	292	102	82	45	58	21
20	65	113	47	64	87	104	215	98	80	35	44	21
21	65	90	52	70	80	101	176	99	78	39	37	21
22	68	74	60	76	84	99	153	149	72	44	33	77
23	69	80	66	80	100	98	137	142	70	49	31	111
24	69	60	66	80	98	96	2040	154	82	62	29	79
25	71	32	64	76	92	98	1650	166	103	74	26	69
26	73	34	68	74	88	99	496	155	159	71	25	77
27	75	43	76	76	88	99	330	130	226	70	25	116
28	75	70	88	80	87	99	259	127	193	52	24	249
29	75	90	84	90	86	113	216	114	155	39	24	233
30	76	72	82	104	---	240	196	108	132	31	21	144
31	76	---	86	102	---	313	---	105	---	27	19	---
TOTAL	1967	2372	2332	2102	2555	3521	11373	3939	3099	1818	5067	1584
MEAN	63.5	79.1	75.2	67.8	88.1	114	379	127	103	58.6	163	52.8
MAX	76	113	98	104	110	313	2040	178	226	266	1710	249
MIN	56	32	38	52	50	68	120	98	70	27	19	16
AC-FT	3900	4700	4630	4170	5070	6980	22560	7810	6150	3610	10050	3140
CAL YR 1975	TOTAL	101756	MEAN 279	MAX 6660	MIN 32	AC-FT 201800						
WTF YR 1976	TOTAL	41729	MEAN 114	MAX 2040	MIN 16	AC-FT 82770						

KANSAS RIVER BASIN

06884000 LITTLE BLUE RIVER NEAR FAIRBURY, NE

LOCATION.--Lat 40°06'54", long 97°10'13", in NW1/4NE1/4 sec.26, T.2 N., R.2 E., Jefferson County, Hydrologic Unit 10270207, on right bank 20 ft (6 m) downstream from bridge on State Highway 15, 0.8 mi (1.3 km) south of Fairbury, and 5.2 mi (8.4 km) upstream from Rose Creek.

DRAINAGE AREA.--2,350 mi² (6,087 km²).

PERIOD OF RECORD.--May 1908 to September 1915, October 1928 to September 1956 (published as "near Endicott"), October 1956 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1086: 1941(M). WSP 1390: 1908(M), 1912, 1915, 1935, 1939, 1945(M). WSP 1510: 1947 (calendar year figures only). WSP 1919: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,282.19 ft (390.812 m) above mean sea level. May 23, 1908, to Sept. 30, 1915, nonrecording gage at present site at different datum. Apr. 26, 1929, to Sept. 24, 1957, nonrecording gage or water-stage recorder at site 3.5 mi (5.6 km) downstream at various datums.

REMARKS.--Records fair except those for winter period, which are poor. Some regulation at low stage by powerplants above station. Natural flow of stream affected by ground-water withdrawals for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--55 years, 368 ft³/s (10.42 m³/s), 266,600 acre-ft/yr (0.329 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,800 ft³/s (1,070 m³/s) Oct. 12, 1973; gage height, 18.96 ft (5.779 m) Oct. 12, 1973; minimum daily discharge, 14 ft³/s (0.40 m³/s) Nov. 22, 1929, discharge measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 16	1900	4100 116	7.20 2.195
Apr. 25	0200	*4240 120	7.34 2.237

Minimum daily discharge, 47 ft³/s (1.33 m³/s) Nov. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	115	103	129	139	158	574	247	167	130	115	82
2	78	118	140	80	133	152	482	214	164	112	110	81
3	77	134	151	76	127	140	352	197	162	104	106	74
4	80	131	145	70	100	106	271	193	152	98	104	72
5	79	125	153	74	68	84	231	192	146	98	231	71
6	77	124	131	84	66	109	206	177	141	91	2010	72
7	83	124	128	74	100	153	228	166	135	90	903	71
8	85	124	133	96	120	181	229	167	128	90	481	67
9	87	119	131	86	144	193	218	165	120	93	311	67
10	86	115	131	72	185	174	248	165	113	94	231	65
11	89	116	133	68	162	169	224	167	112	89	178	57
12	92	114	127	72	150	159	198	180	106	86	155	60
13	95	109	128	74	145	155	188	180	97	84	145	71
14	93	111	138	82	130	165	195	169	93	84	141	89
15	94	114	79	78	132	175	625	165	92	98	145	79
16	94	116	77	88	132	175	2170	156	90	110	158	68
17	94	115	83	86	132	165	2730	159	87	1150	182	63
18	94	116	75	92	131	162	1160	157	80	1220	150	61
19	96	141	76	94	120	160	562	159	80	490	128	60
20	101	156	82	90	114	152	392	161	77	337	118	60
21	101	122	82	96	96	145	318	163	82	260	112	57
22	105	110	91	108	119	145	282	215	84	515	102	57
23	106	98	104	114	162	140	252	351	89	257	98	94
24	105	108	106	120	172	138	1340	298	102	191	98	126
25	99	61	102	102	165	140	2780	268	93	174	95	115
26	100	47	108	96	160	138	1030	229	125	157	95	152
27	104	74	117	108	160	135	512	204	179	141	91	233
28	103	126	127	128	155	135	389	200	200	141	87	305
29	103	150	129	155	155	165	306	192	167	123	87	330
30	105	108	125	152	---	324	267	177	147	122	86	249
31	110	---	126	155	---	550	---	169	---	118	82	---
TOTAL	2894	3441	3561	2999	3874	5242	18959	6002	3610	6947	7135	3108
MEAN	93.4	115	115	96.7	134	169	632	194	120	224	230	104
MAX	110	156	153	155	185	550	2780	351	200	1220	2010	330
MIN	77	47	75	68	66	84	188	156	77	84	82	57
AC-FT	5740	6830	7060	5950	7680	10400	37610	11900	7160	13780	14150	6160

CAL YR 1975 TOTAL 152832 MEAN 419 MAX 7700 MIN 44 AC-FT 303100
WTR YR 1976 TOTAL 67772 MEAN 185 MAX 2780 MIN 47 AC-FT 134400

KANSAS RIVER BASIN

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06884025 LITTLE BLUE RIVER AT HOLLENBERG, KS

LOCATION.--Lat 39°58'48", long 97°00'16", NE1/4S1/4 sec.8, T.1 S., R.4 E., Washington County, Hydrologic Unit 10270207, on right bank and 2 ft (1 m) downstream from bridge on county road, 0.6 mi (1.0 km) west of Hollenberg, Ks., and 1.75 mi (2.82 km) downstream from Nebraska-Kansas State line.

DRAINAGE AREA.--2,752 mi² (7,128 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1973 to February 1974 (discharge measurements only), March 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,216.10 ft (370.667 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are poor. Discharge measurements made prior to 1974 water year are published in table of miscellaneous sites in WCR NE-73.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,920 ft³/s (281 m³/s) June 24, 1975, gage height, 13.21 ft (4.026 m); minimum daily, 40 ft³/s (1.13 m³/s) Dec. 17, 1975.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 12, 1973, reached a stage of 23.07 ft (7.032 m), present datum, from floodmark, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 17	0300	4030 114	8.70 2.652	July 18	0230	3160 89.5	7.74 2.359
Apr. 25	0600	*4900 139	9.59 2.923				

Minimum daily discharge, 40 ft³/s (1.13 m³/s) Dec. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	128	138	161	195	172	735	349	214	170	129	83
2	104	133	174	140	182	169	770	319	204	143	127	84
3	104	150	184	110	179	163	518	294	195	132	117	85
4	102	164	182	90	171	140	376	274	188	127	108	79
5	102	147	175	94	160	130	319	260	186	127	131	78
6	99	145	158	100	130	150	301	247	180	117	1730	79
7	98	141	155	90	140	175	463	237	178	116	1210	83
8	102	140	154	96	150	238	434	232	174	113	592	81
9	99	138	160	106	175	256	325	230	170	110	347	83
10	99	135	161	98	194	304	319	229	168	107	253	100
11	101	137	157	96	200	241	313	202	166	102	201	71
12	102	135	153	96	192	228	283	215	162	94	168	75
13	104	133	151	98	178	199	271	244	153	83	151	75
14	104	134	159	98	169	183	271	250	150	77	143	95
15	94	137	120	100	168	181	526	241	146	81	140	123
16	96	139	68	106	172	184	1230	232	144	95	152	111
17	101	141	40	110	173	183	3580	235	139	357	194	81
18	101	142	70	116	169	180	1680	228	136	2510	175	73
19	105	150	100	120	162	175	810	217	129	842	144	71
20	106	195	140	114	162	169	616	205	124	407	132	71
21	107	172	122	120	163	161	540	202	123	314	112	73
22	110	154	120	130	160	157	416	211	117	517	103	71
23	111	145	130	135	190	159	392	832	112	382	99	92
24	110	134	140	140	211	156	1320	663	139	236	95	150
25	112	116	135	130	196	156	4170	413	130	200	92	148
26	115	100	140	118	199	164	2020	299	139	187	95	160
27	118	130	150	130	187	157	814	285	207	165	91	224
28	119	180	160	140	193	165	527	273	277	189	87	263
29	119	241	160	160	184	202	433	260	257	241	86	345
30	122	187	160	190	---	735	381	243	198	164	87	304
31	123	---	158	199	---	655	---	225	---	144	87	---
TOTAL	3289	4423	4374	3731	5104	6687	25153	8846	5005	8649	7378	3511
MEAN	106	147	141	120	176	216	838	285	167	279	238	117
MAX	123	241	184	199	211	735	4170	832	277	2510	1730	345
MIN	94	100	40	90	130	130	271	202	112	77	86	71
AC-FT	6520	8770	8680	7400	10120	13260	49890	17550	9930	17160	14630	6960

CAL YR 1975	TOTAL	189695	MEAN	520	MAX	9320	MIN	40	AC-FT	376300
WTR YR 1976	TOTAL	86150	MEAN	235	MAX	4170	MIN	40	AC-FT	170900

KANSAS RIVER BASIN

06884025 LITTLE BLUE RIVER AT HOLLENBERG, KS--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water year 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT 15...	1300	100	605	8.1	14.5	7	13.3	26	300	68	49
NOV 05...	1500	149	579	7.6	16.0	20	12.0	38	367	260	44
DEC 17...	1200	23	664	7.6	.5	15	5.1	--	10	248	48
JAN 07...	1430	90	672	7.8	.5	7	17.8	14	183	116	48
FEB 18...	1350	165	559	7.8	8.5	30	12.5	8.0	33	36	38
MAR 10...	1630	236	493	7.2	9.0	65	10.2	4.0	260	2100	30
APR 20...	1600	561	342	8.1	12.0	420	10.4	41	11000	3200	17
MAY 13...	1400	247	545	8.4	17.5	25	9.6	7.0	10	284	35
JUN 02...	1500	206	579	7.4	24.0	35	8.9	25	230	208	36
JUL 14...	1600	77	673	8.6	31.0	40	--	28	--	40	73
AUG 03...	1345	121	548	8.5	27.0	30	9.3	14	500	140	49
SEP 15...	1000	99	450	7.8	19.0	90	7.2	6.9	7600	3700	45

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)
OCT 15...	367	.50	99.1	.14	.13	.64	.77	.91	.36	.30
NOV 05...	350	.48	141	.60	.02	.95	.97	1.6	.32	.31
DEC 17...	--	.53	25.2	1.4	.14	.63	.77	2.2	.35	.28
JAN 07...	429	.58	105	1.8	.23	.64	.87	2.7	.35	.34
FEB 18...	334	.45	149	1.0	.13	.97	1.1	2.1	.34	.24
MAR 10...	--	.40	187	1.2	.35	1.7	2.0	3.2	.44	.25
APR 20...	209	.28	317	1.5	.13	3.4	3.5	5.0	.89	.31
MAY 13...	373	.51	249	.04	.27	.58	.85	.89	.33	.19
JUN 02...	--	.47	191	.70	.05	.83	.88	1.6	.42	.32
JUL 14...	398	.54	83.2	.00	.00	1.6	1.6	1.6	.55	.28
AUG 03...	333	.45	109	.15	.01	1.4	1.4	1.6	.52	.34
SEP 15...	--	.35	68.2	.76	.16	1.6	1.8	2.6	.58	.29

KANSAS RIVER BASIN

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06884025 LITTLE BLUE RIVER AT HOLLENBERG, KS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HC03) (MG/L) (00440)
DEC 17...	1200	5	230	9	75	11	44	1.3	7.2	273
MAR 10...	1630	35	180	9	56	8.8	32	1.1	6.6	204
JUN 02...	1500	6	200	0	60	11	39	1.2	7.7	238
SEP 15...	1000	25	130	7	41	7.4	37	1.4	6.5	154

DATE	CAR- BONATE (C03) (MG/L) (00445)	ALKA- LINITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED ARSENIC (AS) (MG/L) (01000)	DIS- SOLVED BORON (B) (MG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (MG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (MG/L) (01030)
DEC 17...	0	224	42	.3	28	390	--	50	--	--
MAR 10...	0	167	38	.3	21	293	3	50	1	0
JUN 02...	0	195	48	.3	25	344	--	50	--	--
SEP 15...	0	126	27	.3	15	255	5	60	0	0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS- PENDE MERCURY (HG) (UG/L) (71895)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
DEC 17...	--	30	--	130	--	--	--	--	--	--
MAR 10...	4	0	2	40	.0	.0	.0	2	0	10
JUN 02...	--	20	--	10	--	--	--	--	--	--
SEP 15...	4	20	0	10	.0	.0	.0	1	0	0

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1976

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
Niobrara River basin						
06465050	Eagle Creek near Midway, NE	Lat 42°38'01", long 98°46'21", in SW1/4NW1/4 sec.30, T.31 N., R.12 W., Holt County, at county road bridge 4.3 miles south and 6 miles west of Midway.	--	1969-76	10-28-75	14
06465100	East Branch Eagle Creek near Midway, NE	Lat 42°37'35", long 98°45'49", in SW1/4SE1/4 sec.30, T.31 N., R.12 W., Holt County, at county road bridge 5 miles south and 5.4 miles west of Midway.	--	1969-76	10-28-75	6.5
06465398	Redbird Creek near Meek, NE	Lat 42°39'33", long 98°33'31", in NE1/4SE1/4 sec.14, T.31 N., R.11 W., Holt County, at site 3.2 miles east and 2.7 miles south of Meek.	--	1969-76	10-28-75	12
06465420	Blackbird Creek near Meek, NE	Lat 42°39'46", long 98°34'24", in SW1/4NW1/4 sec.14, T.31 N., R.11 W., Holt County, at county road bridge 2.4 miles east and 2.3 miles south of Meek.	--	1969-76	10-28-75	5.3
Platte River basin						
06772500	Wood River near Chapman, NE 1	Lat 40°57'56", long 98°12'22", at center of west line of sec.35, T.12 N., R.8 W., Merrick County, at timber bridge 3.2 miles southwest of Chapman.	--	1957-60a, 1961-76	10-08-75 10-20-75 11-11-75 11-19-75 12-10-75 12-23-75 01-13-76 01-19-76 02-03-76 02-25-76 03-02-76 03-16-76 04-07-76 04-27-76 05-05-76 05-18-76 06-10-76 06-30-76 07-07-76 08-11-76 08-13-76 09-08-76 09-23-76	2.2 0.36 7.9 7.6 21 17 17 23 15 15 24 14 17 38 7.9 5.5 12 18 11 6.1 5.1 22 4.1
Kansas River basin						
06824200	Horse Creek near Parks, NE	Lat 40°02'23", long 101°41'09", in SE1/4NE1/4 sec.23, T.1 N., R.39 W., Dundy County, at county road bridge 0.5 mile upstream from mouth and 2 miles east of Parks.	--	1949, 1951- 60a, 1961-76	05-10-76 06-21-76 08-16-76 09-28-76	0.32 0.64 0 0.07
06828200	Indian Creek near Max, NE	Lat 40°07'48", long 101°21'44", on line between secs.22 and 23, T.2 N., R.36 W., Dundy County, at county road bridge 0.2 mile north of U.S. Highway 34 and 2.5 miles east of Max.	--	1949, 1951- 60a, 1961-76	05-10-76 06-21-76 08-17-76 09-28-76	5.0 0.10 0.04 2.2

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at low-flow partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
Kansas River basin--Continued						
06847550	Flaq Creek at Orleans, NE	Lat 40°08'04", long 99°27'49", in SE1/4SE1/4 sec.16, T.2 N., R.19 W., Harlan County, at bridge on U.S. Highway 136 at west edge of Orleans.	--	1949, 1951-60a, 1961-74, 1976	06-25-76 08-19-76 09-24-76	4.0 0.50 0.18
06847560	Rope Creek near Orleans, NE	Lat 40°07'51", long 99°24'44", on line between secs.13 and 24, T.2 N., R.19 W., Harlan County, at bridge on U.S. Highway 136, 2.5 miles east of Orleans and 3.5 miles northwest of Alma.	--	1949, 1951-60a, 1961-74, 1976	06-25-76 07-22-76 08-14-76 09-24-76	0.48 0.28 0.03 0.06
* 06850000	Turkey Creek at Naponee, NE	Lat 40°04'34", long 99°08'17", in SW1/4SW1/4 sec.4, T.1 N., R.16 W., Franklin County, at county road bridge at east side of Naponee, 0.8 mile upstream from mouth.	138	1948-53#, 1954-60a, 1961-76	10-02-75 11-10-75 03-30-76 05-10-76 06-07-76 07-06-76 08-03-76 08-30-76 09-13-76	9.3 10 12 11 11 7.7 3.6 1.6 20
* 06850200	Cottonwood Creek near Bloomington, NE	Lat 40°05'09", long 99°03'56", in SE1/4NE1/4 sec.1, T.1 N., R.16 W., Franklin County, at county road bridge 1 mile upstream from mouth and 1.5 miles west of Bloomington.	15.6	1948-56#, 1957-60a, 1961-76	10-02-75 11-10-75 03-30-76 05-10-76 06-07-76 07-06-76 08-03-76 08-30-76 09-13-76	3.8 4.1 4.6 4.4 4.2 4.1 3.0 2.7 3.4
* 06852000	Ela Creek at Amboy, NE	Lat 40°05'20", long 98°26'07", in NE1/4NW1/4 sec.3, T.1 N., R.10 W., Webster County, at bridge on U.S. Highway 136 at east edge of Amboy, 2.5 miles upstream from mouth.	39.2	1948-53#, 1954-60a, 1961-76	10-02-75 11-10-75 03-30-76 05-10-76 06-07-76 07-06-76 08-03-76 08-30-76 09-13-76	14 16 17 16 16 14 9.8 10 12

* Also a crest-stage gage.

Operated as a continuous-record gaging station.

1 Also published with additional data as a water-quality site

a Published as a miscellaneous site.

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1976

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
Cheyenne River basin							
06396490	Warbonnet Creek near Harrison, NE	Lat 42°50'43", long 103°54'41", in SW1/4 sec.10, T.33 N., R.56 W., Sioux County, at culvert on all weather road, 11.5 miles north of Harrison.	24.5	1969-76	06-14-76	13.11	59
White River basin							
06443300	Deep Creek near Glen, NE	Lat 42°36'37", long 103°33'22", in SE1/4SE1/4 sec.32, T.31 N., R.53 W., Sioux County, at bridge 1.4 miles east of Glen.	10.9	1953-76	05-25-76	5.67	1.4
06443700	Soldiers Creek near Crawford, NE	Lat 42°41'18", long 103°32'09", in NE1/4SW1/4 sec.3, T.31 N., R.53 W., Sioux County, on right bank 6 miles west of Crawford.	52.6	1955-76	09-22-76	12.44	110
06445530	Chadron Creek tributary at Chadron State Park near Chadron, NE	Lat 42°41'49", long 103°00'09", in NE1/4NW1/4 sec.6, T.31 N., R.48 W., Daves County, on left downstream side of concrete box culvert on U.S. Highway 385, 9 miles south of Chadron.	2.59	1953-76	76		0
06445560	Chadron Creek at Chadron State Park near Chadron, NE	Lat 42°42'27", long 103°00'33", in SE1/4NE1/4 sec.36, T.32 N., R.49 W., Daves County, on left downstream wingwall of concrete culvert, 8 miles south of Chadron.	15.4	1953-76	12-29-75	8.33	1.8
Niobrara River basin							
06454400	Niobrara River tributary near Belmont, NE	Lat 42°36'16", long 103°22'31", in SE1/4SW1/4 sec.25, T.30 N., R.52 W., Daves County, on tree upstream from a concrete box culvert under State Highway 2, 1.2 miles southwest of Belmont, 7.5 miles northwest of Marsland, and 10 miles south of Crawford.	2.59	1971-76	76		0
06456200	Pebble Creek near Esther, NE	Lat 42°35'38", long 103°03'55", in NW1/4NW1/4 sec.10, T.30 N., R.49 W., Daves County, on post in creek channel, 300 ft below bridge on county road 5 miles west of Esther (former post office) and U.S. Highway 385.	3.07	1953-76	76		0
06456400	Cottonwood Creek near Dunlap, NE	Lat 42°29'29", long 102°58'08", in SW1/4NW1/4 sec.16, T.29 N., R.48 W., Daves County, on downstream side of bridge on U.S. Highway 385, 2 miles northwest of Dunlap and 3 miles north of Niobrara River bridge.	82.2	1948, 1951-76	02-03-76	7.53	0.8
06457100	Point of Rocks Creek near Marsland, NE	Lat 42°16'57", long 103°18'23", in SE1/4SE1/4 sec.30, T.27 N., R.51 W., Box Butte County, at upstream end of box culvert under graveled secondary road 10.8 miles south of Marsland and 2.8 miles south of consolidated school at the intersection of State Highways 2 and 71.	7.10	1970-76	07-02-76	11.94	(*)
06457200	Berea Creek near Alliance, NE	Lat 42°08'20", long 102°52'41", in NE1/4SE1/4 sec.14, T.25 N., R.48 W., Box Butte County, at upstream side of county road, 2.9 miles north of the junction of Emerson and Third Street in Alliance.	32.3	1953-70a, 1971-76	76		0
06457800	Antelope Creek tributary near Gordon, NE	Lat 42°49'57", long 102°12'09", in SW1/4SW1/4 sec.18, T.33 N., R.41 W., Sheridan County, at bridge on State Highway 27, 2 miles north of Gordon and 2.5 miles north of U.S. Highway 20.	26.6	1953-76	08-02-76	15.28	1,610

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Niobrara River basin--Continued							
06461300	Big Beaver Creek near Valentine, NE	Lat 42°56'24", long 100°27'25", in SE1/4SE1/4 sec.2, T.34 N., R.27 W., Cherry County, at box culvert under State Highway 12, 7.6 miles northeast of Valentine and 10.2 miles west of Sparks.	24.9	1971-76	76		0
06465300	Camp Creek near O'Neill, NE	Lat 42°39'08", long 98°39'26", in NW1/4SW1/4 sec.19, T.31 N., R.11 W., Holt County, on U.S. Highway 281, 13 miles north of O'Neill.	1.65	1958-76	05-23-76	(b)	c5
06465850	Bingham Creek near Niobrara, NE	Lat 42°42'12", long 98°02'54", in NW1/4SW1/4 sec.32, T.32 N., R.6 W., Knox County, at culvert on State Highway 14, 4.7 miles south of Niobrara.	d6.5	1968-76	05-23-76	(b)	c2
Weigand Creek basin							
06466950	Weigand Creek near Crofton, NE	Lat 42°43'36", long 97°37'55", in NW1/4NE1/4 sec.26, T.32 N., R.3 W., Knox County, at culvert on State Highway 12, 5.5 miles east of Lindy and 6.5 miles west of Crofton.	d3.5	1968-76	06-24-76	e8.6	5
Bow Creek basin							
06478520	West Bow Creek near Fordyce, NE	Lat 42°41'40", long 97°25'06", in NE1/4NW1/4 sec.3, T.31 N., R.1 W., Cedar County, at bridge on U.S. Highway 81, 1.2 miles southeast of Constance and 2.9 miles west of Fordyce.	52.7	1964-65, 1967g, 1967-76	06-24-76	(b)	c10
Omaha Creek basin							
06600800	South Omaha Creek tributary No. 2 near Walthill, NE	Lat 42°08'18", long 96°28'37", in NE1/4SW1/4 sec.13, T.25 N., R.8 E., Thurston County, at culvert on U.S. Highway 77, 0.6 mile south of State Highway 94 and 0.8 mile southeast of Walthill.	1.65	1950-76	05-23-76	e8.2	c.4
06600900	South Omaha Creek at Walthill, NE	Lat 42°08'54", long 96°28'58", in SE1/4SE1/4 sec.11, T.25 N., R.8 E., Thurston County, at bridge on State Highway 94 at east edge of Walthill.	51.2	1951-76	05-23-76	10.44	360
Tekamah Creek basin							
06607800	South Branch Tekamah Creek tributary near Tekamah, NE	Lat 41°45'15", long 96°17'11", in NW1/4NW1/4 sec.34, T.21 N., R.10 E., Burt County, at bridge on east-west county road, 4 miles southwest of Tekamah.	4.08	1950-76	05-23-76	e7.78	35
New York Creek basin							
06608700	New York Creek tributary near Spiker, NE	Lat 41°38'24", long 96°18'27", in SW1/4SW1/4 sec.4, T.19 N., R.10 E., Washington County, at box culvert on eastwest county road, 300 ft east of north-south county road and 2.2 miles north of Spiker.	1.55	1951-76	05-23-76	26.80	250
06608900	New York Creek east of Spiker, NE	Lat 41°36'53", long 96°16'14", in SE1/4SE1/4 sec.15, T.19 N., R.10 E., Washington County, on north-south dirt road, 200 ft south of county road and 2.6 miles east of Spiker.	13.9	1950-76	05-23-76	13.16	680

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Papillion Creek basin							
06610700	Big Papillion Creek near Orum, NE	Lat 41°32'44", long 96°13'10", in NW1/4SE1/4 sec.7, T.18 N., R.11 E., Washington County, at bridge on State Highway 91, 2.7 miles east of Orum and 4.3 miles west of Blair.	8.52	1968-76	09-26-76	8.90	(+)
Platte River basin							
06678750	Dry Spottedtail Creek tributary near Mitchell, NE	Lat 42°07'00", long 103°49'22", in NW1/4NE1/4 sec.26, T.25 N., R.56 W., Sioux County, at upstream end of box culvert under State Highway 29, 3.6 miles north of Interstate Canal and 12 miles north of Mitchell.	15.0	1971-76	07-21-76	12.20	265
06684900	Hackberry Creek near Redington, NE	Lat 41°35'00", long 103°25'17", in NW1/4NW1/4 sec.34, T.19 N., R.53 W., Banner County, at upstream side of box culvert under State Highway 88, 8 miles west of Redington.	16.6	1970-76	76		0
06687600	Ash Hollow near Oshkosh, NE	Lat 41°15'05", long 102°20'28", in SE1/4SE1/4 sec.22, T.15 N., R.44 W., Garden County, at upstream side of box culvert under State Highway 27, 11 miles south of Oshkosh.	54.9	1968f, 1968, 1970-76	08-20-76	12.68	350
06762650	Lodgepole Creek tributary near Kimball, NE	Lat 41°17'57", long 103°36'32", in SE1/4SE1/4 sec.30, T.16 N., R.55 W., Kimball County, at upstream side of box culvert under State Highway 71, 6.5 miles north of Kimball.	8.68	1970-76	05-23-76	12.35	(+)
06763200	Lodgepole Creek tributary near Sunol, NE	Lat 41°10'00", long 102°43'25", in SE1/4SE1/4 sec.20, T.14 N., R.47 W., Cheyenne County, at upstream side of box culvert under graveled county road, 2 miles east and 0.6 mile north of Sunol.	15.6	1968f, 1968-76	76		0
06767200	North Fork Plum Creek tributary near Farnam, NE	Lat 40°42'18", long 100°14'24", in NW1/4SW1/4 sec.36, T.9 N., R.26 W., Lincoln County, at box culvert on State Highway 23, 0.1 mile east of north-south dirt road and 1.3 miles west of main street in Farnam.	1.83	1952-76	04-08-76	10.74	45
06767410	Plum Creek near Farnam, NE	Lat 40°41'13", long 100°08'42", in NE1/4NW1/4 sec.10, T.8 N., R.25 W., Frontier County, on east-west road 0.4 mile west of State Highway 23 and 4 miles southeast of Farnam.	80.4	1947, 1951-76	04-08-76	15.97	1,020
06768050	Buffalo Creek tributary No. 1 near Buffalo, NE	Lat 41°00'44", long 99°48'48", in SW1/4NE1/4 sec.15, T.12 N., R.22 W., Dawson County, at bridge east of Lutheran Church and School, 2 miles northeast of Buffalo.	2.08	1965-76	07-03-76	11.00	5
06768100	East Buffalo Creek near Buffalo, NE	Lat 41°00'17", long 99°50'14", in SE1/4SW1/4 sec.16, T.12 N., R.22 W., Dawson County, on bridge 100 ft south of fork in road and 1.2 miles north of road intersection at Buffalo.	5.21	1951-76	76		0
06768400	West Buffalo Creek near Buffalo, NE	Lat 40°59'22", long 99°52'21", in NW1/4NE1/4 sec.30, T.12 N., R.22 W., Dawson County, on bridge on dirt road, 2.0 miles west of crossroads at Buffalo.	17.1	1951-76	06-23-76	11.56	c2
06769100	Elm Creek tributary near Overton, NE	Lat 40°53'14", long 99°33'48", in SW1/4SE1/4 sec.26, T.11 N., R.20 W., Dawson County, at bridge on dirt road, 1.3 miles west and 10 miles north of Overton.	.58	1951-76	06-23-76	14.03	c2
06769200	Elm Creek near Sumner, NE	Lat 40°51'24", long 99°32'21", in NW1/4NW1/4 sec.7, T.10 N., R.19 W., Dawson County, at concrete culvert on gravel road, 1.4 miles west and 6 miles south of Sumner.	14.9	1951-76	76		0

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Platte River basin--Continued							
06769300	Elm Creek tributary No. 2 near Overton, NE	Lat 40°51'02", long 99°32'21", in NW1/4SW1/4 sec.7, T.10 N., R.19 W., Dawson County, at culvert on gravel road, 7.5 miles north of Overton.	5.62	1951-76	06-23-76	e11.24	82
06770600	Wood River tributary near Lodi, NE	Lat 41°11'58", long 99°50'21", in SE1/4NE1/4 sec.9, T.14 N., R.22 W., Custer County, at culvert on State Highway 40, 1.3 miles southeast of Lodi and 6.1 miles northwest of Oconto.	2.02	1952-76	07-29-76	(b)	c1
06770700	Wood River near Lodi, NE	Lat 41°10'15", long 99°48'17", in SW1/4NE1/4 sec.23, T.14 N., R.22 W., Custer County, at culvert on State Highway 40, 2.9 miles northwest of Oconto, 4 miles southeast of Lodi, and 10 miles southeast of Callaway.	12.9	1952-76	07-29-76	11.31	9
06770800	Wood River near Oconto, NE	Lat 41°09'46", long 99°47'38", in SW1/4SW1/4 sec.24, T.14 N., R.22 W., Custer County, on State Highway 40, 2.6 miles northwest of Oconto.	26.4	1950, 1952-76	76		0
06770900	Wood River at Oconto, NE	Lat 41°08'50", long 99°45'26", in NW corner sec.32, T.14 N., R.21 W., Custer County, at bridge on State Highway 21 just north of Oconto, 0.8 mile north of junction with State Highway 40.	44.8	1950, 1952-76	07-29-76	(b)	c2
06770910	Wood River near Lomax, NE	Lat 41°03'40", long 99°40'50", in SW1/4SW1/4 sec.25, T.13 N., R.21 W., Custer County, at bridge No. 7091 on State Highway 40, 50 ft downstream from Union Pacific Railroad bridge and 0.5 mile southeast of crossroads at Lomax.	79.6	1952-76	06-23-76	(b)	c1
06771000	Wood River near Riverdale, NE	Lat 40°47'56", long 99°11'48", in NW1/4NW1/4 sec.31, T.10 N., R.16 W., Buffalo County, at downstream side of State Highway 40, 1.5 miles northwest of Riverdale.	379	1946-73*, 1974-76	07-29-76	4.01	51
06775700	North Fork Dismal River near Mullen, NE	Lat 41°51'08", long 101°02'14", in SE1/4NE1/4 sec.29, T.22 N., R.32 W., Hooker County, at upstream end of culvert under State Highway 97, 13 miles south of Mullen.	670	1971-76	08-12-76	15.93	116
06777600	Lillian Creek tributary near Broken Bow, NE	Lat 41°30'12", long 99°39'31", in SE1/4NE1/4 sec.30, T.18 N., R.20 W., Custer County, at bridge on north-south gravel road, 7.5 miles north of State Highway 2 in Broken Bow.	2.02	1952-76	05-12-76	e10.31	2.2
06777700	Lillian Creek near Broken Bow, NE	Lat 41°30'36", long 99°39'26", in NE1/4NE1/4 sec.30, T.18 N., R.20 W., Custer County, at bridge on north-south gravel road, 8 miles north of State Highway 2 in Broken Bow.	4.77	1947, 1951-76	07-03-76	e9.95	c5
06777800	Lillian Creek tributary near Walworth, NE	Lat 41°37'33", long 99°34'13", in SE1/4SW1/4 sec.12, T.19 N., R.20 W., Custer County, on east-west dirt road, 2 miles south of Walworth.	2.04	1951-76	07-03-76		c5
06782600	South Branch Mud Creek tributary near Broken Bow, NE	Lat 41°25'57", long 99°42'09", in SW1/4NE1/4 sec.23, T.17 N., R.21 W., Custer County, at box culvert on State Highway 2, 4 miles northwest of Broken Bow.	.40	1951-76	09-08-76	13.57	133
06782620	South Branch Mud Creek near Broken Bow, NE	Lat 41°24'33", long 99°40'44", in SW1/4SE1/4 sec.25, T.17 N., R.21 W., Custer County, at bridge on county road, 0.2 mile west of intersection with State Highway 2, near KCNI Tower, 1.8 mile northwest of courthouse in Broken Bow.	79.4	1976	08-09-76	11.52	(*)

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Platte River basin--Continued							
06782900	Mud Creek tributary near Broken Bow, NE	Lat 41°22'32", long 99°38'17", in NE1/4NW1/4 sec.8, T.16 N., R.20 W., Custer County, at double concrete box culvert on State Highway 21, 1.8 miles south of State Highway 2 in Broken Bow.	5.90	1945, 1951-76	08-06-76	e9.83	c5
06784700	Turkey Creek near Farwell, NE	Lat 41°13'14", long 98°40'45", in NW1/4NE1/4 sec.3, T.14 N., R.12 W., Howard County, at bridge on State Highway 92, 0.2 mile west of School No. 78 and 2.7 miles west of Farwell.	27.2	1950, 1953-76	06-24-76	17.51	(+)
06789400	Davis Creek southwest of North Loup, NE	Lat 41°24'32", long 98°48'32", in NE1/4NE1/4 sec.33, T.17 N., R.13 W., Valley County, at timber bridge 6.5 miles southwest of North Loup.	31.2	1951-76	06-24-76	18.93	138
06790600	East Branch Spring Creek tributary near Wolbach, NE	Lat 41°27'28", long 98°25'45", in NE1/4SE1/4 sec.11, T.17 N., R.10 W., Greeley County, at box culvert on county road, 0.6 mile south of east-west dirt road, 1.1 miles north of gravel road to Brayton, and 4.5 miles northwest of Wolbach.	1.52	1952-76	06-23-76	11.71	c2
06790700	West Branch Spring Creek at Brayton, NE	Lat 41°27'27", long 98°28'38", in NE1/4SW1/4 sec.9, T.17 N., R.10 W., Greeley County, at steel truss bridge on north-south dirt road, 200 ft north of T in road and 0.4 mile south of Brayton.	19.5	1945, 1952-76	06-23-76	16.97	850
06791100	Spring Creek near Cushing, NE	Lat 41°17'08", long 98°22'42", in SW1/4NW1/4 sec.8, T.15 N., R.9 W., Howard County, at bridge 0.9 mile southwest of Cushing and 1.9 miles upstream from Loup River.	184	1948g, 1949-53g, 1953-76	06-24-76	13.93	570
06793995	Skeedee Creek tributary near Genoa, NE	Lat 41°29'46", long 97°52'23", in NE1/4 NE1/4 sec.34, T.18 N., R.5 W., Nance County, at bridge on county road, 5 miles south of St. Edward and 7.5 miles northwest of Genoa.	.59	1964f, 1964, 1968-76	06-24-76	13.72	210
06794710	Bone Creek near David City, NE	Lat 41°16'42", long 97°02'51", in SW1/4SE1/4 sec.11, T.15 N., R.3 E., Butler County, at bridge on State Highway Spur 12B, 1 mile north and 4.3 miles east of David City.	8.75	1963f, 1963, 1968-76	05-22-76	(b)	c10
06799190	South Fork Union Creek tributary near Cornlea, NE	Lat 41°42'00", long 97°34'22", in SE1/4SW1/4 sec.17, T.20 N., R.2 W., Platte County, at culvert on State Highway 91, 0.5 mile west and 1.2 miles north of Cornlea.	6.54	1967-76	05-22-76	12.57	580
06799423	North Logan Creek near Laurel, NE	Lat 42°28'00", long 97°02'55", in NW1/4NW1/4 sec.26, T.29 N., R.3 E., Cedar County, at bridge on U.S. Highway 20, 2.2 miles east and 3 miles north of Laurel.	225.3	1965f, 1965, 1967f, 1967-76	02-15-76	13.80	200
06799850	Pond Creek near Schuyler, NE	Lat 41°31'15", long 97°03'33", in SE1/4NE1/4 sec.22, T.18 N., R.3 E., Colfax County, at culvert on State Highway 15, 4.7 miles north of Schuyler.	.54	1968-76	05-22-76	e7.50	1.0
06800350	Elkhorn River tributary near Nickerson, NE	Lat 41°30'34", long 96°33'06", in NE1/4NW1/4 sec.29, T.18 N., R.8 E., Dodge County, at bridge on county road, 4.5 miles southwest of Nickerson.	6.53	1968-76	03-30-76	10.21	2
06803200	Antelope Creek at 48th Street, Lincoln, NE	Lat 40°47'16", long 96°39'13", in SE1/4SW1/4 sec.32, T.10 N., R.7 E., Lancaster County, on left downstream wingwall of culvert at 48th Street in Lincoln.	7.14	1951, 1958-76	04-24-76	e5.85	105

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft³/s)
Flatte River basin--Continued							
06803300	Antelope Creek at 27th Street, Lincoln, NE	Lat 40°48'10", long 96°40'56", in NE1/4SE1/4 sec.25, T.10 N., R.6 E., Lancaster County, on downstream side of bridge at 27th and Alpha Streets in Lincoln.	10.6	1957-76	09-25-76	e2.6	285
06803400	Antelope Creek at 17th Street Lincoln, NE	Lat 40°49'26", long 96°41'47", in SW1/4NW1/4 sec.24, T.10 N., R.6 E., Lancaster County, on right bank 40 ft downstream from 17th Street bridge in Lincoln and 3,600 ft upstream from south.	12.1	1958-62*, 1963-76	05-12-76	5.13	630
06803540	Dee Creek near Alvo, NE	Lat 40°54'52", long 96°25'04", in SE1/4SE1/4 sec.17, T.11 N., R.9 E., Cass County, at bridge on county road, 2 miles west and 3 miles north of Alvo.	7.88	1961f, 1962-76	09-25-76	e7.71	0.6
06803570	Dunlap Creek tributary near Weston, NE	Lat 41°12'25", long 96°48'46", in SE1/4SE1/4 sec.2, T.14 N., R.5 E., Saunders County, on tree just upstream from box culvert on State Highway 79, 200 ft north of U.S. Highway 30A and State Highway 92 and 3.5 miles northwest of Weston.	.43	1950-76	09-25-76	e10.20	c2
06803600	North Fork Wahoo Creek near Prague, NE	Lat 41°15'37", long 96°48'47", in NW1/4NW1/4 sec.24, T.15 N., R.5 E., Saunders County, at bridge on State Highway 79, 0.2 mile south of road intersection and 3.5 miles south of Prague.	15.4	1951-76	09-25-76	e5.23	15
06803900	North Fork Wahoo Creek at Weston, NE	Lat 41°12'19", long 96°43'40", in NE1/4NW1/4 sec.10, T.14 N., R.6 E., Saunders County, at bridge on State Highway 92, 1 mile northeast of Weston.	43.3	1951-76	03-30-76	e5.15	85
06804100	Silver Creek near Cedar Bluffs, NE	Lat 41°22'48", long 96°35'15", in NW1/4NE1/4 sec.11, T.16 N., R.7 E., Saunders County, at bridge on county road, 0.8 mile east of State Highway 109 and 1.5 miles southeast of Cedar Bluffs.	7.00	1950-76	76		0
06804200	Silver Creek near Colon, NE	Lat 41°18'26", long 96°33'47", in NW1/4NW1/4 sec.6, T.15 N., R.8 E., Saunders County, at bridge on county road, 2.1 miles east of State Highway 109 and 2.5 miles east of Colon.	30.3	1950-76	03-30-76	10.32	c5
06804300	Silver Creek tributary near Colon, NE	Lat 41°21'03", long 96°38'45", in NW1/4NE1/4 sec.20, T.16 N., R.7 E., Saunders County, at culvert on county road, 2.3 miles west of State Highway 109 and 4 miles northwest of Colon.	10.3	1951-76	76	e8.7	0
06804400	Silver Creek tributary at Colon, NE	Lat 41°17'55", long 96°36'18", in NW1/4SW1/4 sec.2, T.15 N., R.7 E., Saunders County, at culvert on State Highway 109, 0.2 mile east of Colon.	17.6	1951-76	03-30-76	11.07	8
06804500	Silver Creek at Ithaca, NE	Lat 41°09'44", long 96°31'38", in NW1/4NE1/4 sec.28, T.14 N., R.8 E., Saunders County, at bridge on county road, 0.5 mile east of Ithaca.	80.0	1950-58*, 1959-76	03-30-76	e3.93	30
06805510	Buffalo Creek near Gretna, NE	Lat 41°06'12", long 96°13'30", in NE1/4NW1/4 sec.18, T.13 N., R.11 E., Sarpy County, at bridge on county road, 1,100 ft downstream from junction of Buffalo Creek and left-bank tributary, 1,700 ft downstream from Interstate Highway 80, and 1 mile east and 2.5 miles south of Gretna.	4.29	1968-76	06-27-76	8.00	(*)

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
Weeping Water Creek basin							
06806440	Stove Creek at Elmwood, NE	Lat 40°50'32", long 96°17'37", in SW1/4NW1/4 sec.15, T.10 N., R.10 E., Cass County, at bridge on State Highway 1 at south side of Elmwood.	10.3	1950-76	04-24-76	13.82	460
06806460	Weeping Water Creek at Weeping Water, NE	Lat 40°51'18", long 96°07'10", in NW1/4NW1/4 sec.7, T.10 N., R.12 E., Cass County, at bridge of Missouri Pacific Railroad just south of north-south road, 1 mile southeast of Weeping Water.	80.1	1947, 1950-74, 1973-76f	05-14-76	(b)	500
06806470	Weeping Water Creek tributary near Weeping Water, NE	Lat 40°51'46", long 96°06'43", in NE1/4SW1/4 sec.6, T.10 N., R.12 E., Cass County, at culvert of Missouri Pacific Railroad, 1,400 ft west of north-south road and 1.5 miles southeast of Weeping Water.	.73	1950-76	04-24-76	12.10	135
Honey Creek basin							
06810060	Honey Creek near Peru, NE	Lat 40°26'38", long 95°45'12", in SW1/4NE1/4 sec.32, T.6 N., R.15 E., Nemaha County, at bridge on county road, 1 mile west and 2 miles south of Peru.	3.43	1968-76	04-18-74	15.99	1,210
Little Nemaha River basin							
06810100	Hooper Creek tributary near Palmyra, NE	Lat 40°46'10", long 96°25'23", in NW1/4NW1/4 sec.9, T.9 N., R.9 E., Otoe County, at bridge on east-west portion of State Highway 43, 300 ft east of turn in highway and 4.5 miles north of Palmyra.	8.00	1950-76	04-24-76	e8.53	50
06810400	Little Nemaha River tributary near Syracuse, NE	Lat 40°40'05", long 96°11'54", in SE1/4SE1/4 sec.8, T.8 N., R.11 E., Otoe County, at multiple box culvert on county road, 50 ft west of crossroad, about 1.0 mile south of State Highway 2, and 1.5 miles northwest of Syracuse.	.71	1950-76	03-30-76	e9.0	25
Big Nemaha River basin							
06815510	Temple Creek near Falls City, NE	Lat 40°08'36", long 95°36'27", in NE1/4NW1/4 sec.15, T.2 N., R.16 E., Richardson County, at culvert on U.S. Highway 73, 6 miles north of Falls City.	2.99	1968-76	04-24-76	e6.4	2
Kansas River basin							
06828100	North Branch Indian Creek near Max, NE	Lat 40°09'52", long 100°23'51", in SW1/4SW1/4 sec.4, T.2 N., R.36 W., Dundy County, at bridge on county road, 1.8 miles above the mouth and 3.5 miles north of Max.	d4.76	1962f, 1962, 1970-76	05-21-76	11.1	160
06829700	Thompson Canyon near Trenton, NE	Lat 40°09'44", long 100°57'31", in SE1/4SW1/4 sec.5, T.2 N., R.32 W., Hitchcock County, on downstream side of bridge on county road, 0.5 mile south and 2.8 miles east of Trenton.	9.06	1966f, 1968f, 1966-76	07-03-76	8.83	390
06834100	Spring Creek tributary near Grant, NE	Lat 40°49'52", long 101°48'57", in SW1/4SW1/4 sec.18, T.10 N., R.29 W., Perkins County, on downstream side of Burlington Northern Inc. railroad bridge, 57 ft upstream from culvert under State Highway 23 and 5.2 miles southwest of Grant.	17.9	1970-76	76		0
06835100	Bobtail Creek near Palisade, NE	Lat 40°18'17", long 101°06'40", in SE1/4NW1/4 sec.13, T.4 N., R.34 W., Hitchcock County, on downstream side of bridge on county road, 2.2 miles south of Palisade and 3.5 miles upstream from Frenchman Creek.	d30.2	1966-67f, 1966-76	06-23-76	5.00	290

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft³/s)
Kansas River basin--Continued							
06837100	Ash Creek near Red Willow, NE	Lat 40°09'45", long 100°29'24", in SE1/4SW1/4 sec.4, T.2 N., R.28 W., Red Willow County, 10 ft downstream from bridge on county road, 5 miles south and 1 mile east of Red Willow school and 4 miles upstream from Republican River (revised).	18.3	1966f, 1966-73h 1974-76	76		0
06838200	Coon Creek at Indianola, NE	Lat 40°14'03", long 100°25'37", in NW1/4NE1/4 sec.13, T.3 N., R.28 W., Red Willow County, at bridge on U.S. Highways 6 and 34, 0.5 mile west of Indianola.	d69	1961-76	76		0
06838550	Dry Creek at Bartley, NE	Lat 40°15'02", long 100°19'02", in SW1/4SE1/4 sec.1, T.3 N., R.27 W., Red Willow County, at bridge on U.S. Highway 6 and 34, 0.5 mile west of Bartley.	d42	1961-76	06-23-76	12.48	633
06839000	Medicine Creek at Maywood, NE	Lat 40°39'23", long 100°36'41", in NE1/4NE1/4 sec.21, T.8 N., R.29 W., Frontier County, 150 ft downstream from bridge on county road and 0.2 mile east of Maywood.	d231	1951-58f, 1960-76	06-23-76	e4.0	180
06839200	Elkhorn Canyon near Maywood, NE	Lat 40°36'10", long 100°42'02", in NE1/4SW1/4 sec.2, T.7 N., R.30 W., Frontier County, on tree on left bank, 10 ft downstream from bridge, 4.5 miles upstream from Brushy Creek, and 6 miles southwest of Maywood.	6.74	1952-76	06-23-76	10.78	85
06839500	Brushy Creek near Maywood, NE	Lat 40°37'51", long 100°37'47", in SE1/4SE1/4 sec.29, T.8 N., R.29 W., Frontier County, on right bank 420 ft downstream from bridge on U.S. Highway 83 and 2 miles south of Maywood.	d95	1935, 1947, 1951-58f, 1960-76	07-14-76	6.14	190
06839700	Frazier Creek tributary near Maywood, NE	Lat 40°35'32", long 100°37'46", in SE1/4NE1/4 sec.8, T.7 N., R.29 W., Frontier County, at box culvert on U.S. Highway 83, 4.5 miles south of Maywood.	.72	1952-76	76		0
06839900	Fox Creek upstream from Cut Canyon near Curtis, NE	Lat 40°44'40", long 100°31'52", in SE1/4SE1/4 sec.17, T.9 N., R.28 W., Lincoln County, at timber bridge 8.0 miles north of Curtis.	31.8	1951-76	07-14-76	12.79	330
06839950	Cut Canyon near Curtis, NE	Lat 40°43'39", long 100°32'10", in NE1/4NW1/4 sec.29, T.9 N., R.28 W., Lincoln County, at timber bridge 6.5 miles north of Curtis.	25.6	1951-76	07-14-76	14.70	490
06849600	Turkey Creek near Holdrege, NE	Lat 40°19'33", long 99°22'04", in NW1/4SW1/4 sec.9, T.4 N., R.18 W., Harlan County, at bridge on U.S. Highway 183, 7.8 miles south of Holdrege.	22.9	1941, 1960, 1967f, 1967-76	04-25-76	12.28	170
* 06850000	Turkey Creek at Naponee, NE	Lat 40°04'34", long 99°08'17", in SW1/4SW1/4 sec.4, T.1 N., R.16 W., Franklin County, on downstream side of county bridge at east side of Naponee.	129	1948-53f, 1954-61f, 1962-76	04-25-76	e2.4	56
* 06850200	Cottonwood Creek near Bloomington, NE	Lat 40°05'09", long 99°04'05", in SE1/4NE1/4 sec.1, T.1 N., R.16 W., Franklin County, on downstream side of county bridge, 1 mile upstream from mouth and 1.5 miles west of Bloomington.	15.6	1948-56f, 1957-61f, 1962-76	06-24-76	7.18	358
06850500	Republican River near Bloomington, NE	Lat 40°03'58", long 99°02'14", in NW1/4SE1/4 sec.8, T.1 N., R.15 W., Franklin County, 2 miles south of Bloomington.	21,000	1929-57f, 1960-67f, 1970-76j	08-03-76	3.73	1878
06851090	Republican River at Riverton, NE	Lat 40°05'26", long 98°46'03", in SE1/4SE1/4 sec.34, T.2 N., R.13 W., Franklin County, at bridge on county road 0.5 mile west of Riverton.	21,300	1963-67f, 1970-76j	08-03-76	4.61	1822

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft³/s)
Kansas River basin--Continued							
06851300	West Branch Thompson Creek tributary near Hildreth, NE	Lat 40°19'10", long 99°00'33", in NW1/4NW1/4 sec.15, T.4 N., R.15 W., Franklin County, on north-south county road, 2 miles southeast of Hildreth and 3 miles west of State Highway 10.	11.5	1953-76	09-13-76	12.38	70
06851400	West Branch Thompson Creek near Upland, NE	Lat 40°17'32", long 98°56'10", in NE1/4NE1/4 sec.30, T.4 N., R.14 W., Franklin County, on State Highway 4, 3 miles southwest of Upland.	128	1953-76	06-24-76	11.23	340
* 06852000	Elm Creek at Amboy, NE	Lat 40°05'20", long 98°26'07", in NE1/4NW1/4 sec.3, T.1 N., R.10 W., Webster County, on downstream side of bridge on U.S. Highway 136 at east edge of Amboy.	39.2	1948-53, 1954-60, 1959, 1961-76	04-08-76	11.58	420
06853100	Beaver Creek near Rosemont, NE	Lat 40°15'47", long 98°22'31", in NW1/4NE1/4 sec.6, T.3 N., R.9 W., Webster County, at county road bridge 1.8 miles southwest of Rosemont.	.752	1938-70, 1971-76	04-16-76	2.32	78
06879850	Big Blue River tributary (site 1) near Hordville, NE	Lat 41°02'47", long 97°56'27", in SW1/4SW1/4 sec.31, T.13 N., R.5 W., Hamilton County, at bridge on east-west county road, 2.2 miles south and 2.8 miles west of Hordville.	4.07	1968-71, 1972-74, 1976	09-25-76	11.23	(*)
06880508	Plum Creek near Seward, NE	Lat 40°55'49", long 97°04'32", in NE1/4NW1/4 sec.15, T.11 N., R.3 E., Seward County, at bridge on county road, 0.6 mile north and 1.3 miles east of Seward.	85.5	1963f, 1963, 1968-76	04-28-76	11.00	220
06880590	North Branch West Fork Big Blue River tributary at Giltner, NE	Lat 40°47'04", long 98°08'57", in NE1/4NE1/4 sec.6, T.9 N., R.7 W., Hamilton County, at culvert on State Highway Spur 502, 0.7 mile north of Giltner.	7.52	1968-76	09-25-76	10.97	230
06880720	School Creek near Harvard, NE	Lat 40°35'49", long 98°03'04", in NW1/4NW1/4 sec.7, T.7 N., R.6 W., Clay County, at bridge on black-top county road, 0.9 mile north of junction of U.S. Highway 6 and State Highway 14 and 3 miles southeast of Harvard.	51.5	1953-76	04-16-76	10.92	c1
06880730	School Creek tributary No. 2 near Harvard, NE	Lat 40°36'42", long 98°02'36", in SE1/4SW1/4 sec.31, T.8 N., R.6 W., Clay County, at culvert on east-west portion of black-top county road, 100 ft north of Burlington Northern Inc. underpass and 3 miles east of Harvard.	16.4	1953-76	09-25-76	10.34	8
06880775	Beaver Creek tributary near Henderson, NE	Lat 40°48'52", long 97°48'43", in NW1/4NE1/4 sec.30, T.10 N., R.4 W., York County, at culvert on east-west county road, 0.3 mile west and 2 miles north of Henderson.	1.16	1968-76	09-25-76	10.15	11
06881250	South Fork Swan Creek tributary near Western, NE	Lat 40°18'18", long 97°10'46", in NE1/4NE1/4 sec.22, T.4 N., R.2 E., Jefferson County, at culvert on State Highway 15, 6.2 miles southeast of Western and 1.1 miles south and 6.3 miles east of Dakin.	.07	1968-76	05-22-76	9.30	(*)
06881450	Indian Creek at Beatrice, NE	Lat 40°17'08", long 96°44'47", in SE1/4NE1/4 sec.28, T.4 N., R.6 E., Gage County, at bridge on U.S. Highway 77 at north edge of Beatrice.	74.7	1960-76	04-24-76	10.02	1,080
06881530	Big Blue River tributary near Beatrice, NE	Lat 40°15'46", long 96°39'09", in SW1/4SE1/4 sec.32, T.4 N., R.7 E., Gage County, at upstream end of box culvert of U.S. Highway 136, 4.6 miles east of highway intersection in Beatrice.	1.86	1971-76	04-24-76	15.45	435
06883540	Spring Creek tributary near Ruskin, NE	Lat 40°06'50", long 97°49'13", in SE1/4NE1/4 sec.25, T.2 N., R.5 W., Nuckolls County, at culvert on north-south county road, 2.3 miles south and 2.5 miles east of Ruskin.	2.11	1967-76	04-24-76	15.16	1,660

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Kansas River basin--Continued							
06883700	South Fork Big Sandy Creek near Davenport, NE	Lat 40°18'27", long 97°52'39", in SW1/4SW1/4 sec.15, T.4 N., R.5 W., Nuckolls County, at wood bridge on dirt road, 50 ft north of State Highway 4 and 3.5 miles west of Davenport.	28.1	1950, 1952-76	09-25-76	11.71	49
06883955	Little Sandy Creek near Ohioa, NE	Lat 40°25'37", long 95°23'38", in SE1/4SE1/4 sec.16, T.5 N., R.1 W., Fillmore County, at bridge on east-west county road 1 mile south and 1.5 miles east of Ohioa.	11.6	1968-76	04-16-76	12.95	240
06884005	Dry Branch tributary near Fairbury, NE	Lat 40°02'43", long 97°10'14", in SW1/4SE1/4 sec.14, T.1 N., R.2 E., Jefferson County, at bridge on State Highway 15, 3 miles north of Nebraska-Kansas State line and 6.4 miles south of Fairbury.	4.51	1968-76	04-16-76	9.34	c15

* Also a low-flow partial-record station.

+ Discharge not determined.

* Operated as a continuous-record gaging station.

a At site 1.2 miles downstream, drainage area 34.0 sq. mi.

b Stage below bottom of gage, which is 10.0 ft.

c Estimate.

d Approximate.

e Outside flood mark.

f Discharge measurements published in table for miscellaneous sites.

g At site 1 mile north, record considered equivalent.

h At site 2.0 miles downstream, drainage area 22 sq. mi., record considered equivalent.

j Discharge measurements only.

k At site 1.08 miles downstream, drainage area 5.03 sq. mi.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of peak flow are designated by a dagger (†).

Discharge measurements made at miscellaneous sites during water year 1976

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Niobrara River Basin						
Niobrara River (06466000)	Missouri River	Lat 42°44'50", long 98°03'00", in SW1/4 sec.17, T.32 N., R.6 W., near left bank on downstream side of bridge on State Highway 12, 0.8 mile southwest of Niobrara.	--	1902, 1910-13a, 1954-58 ⁺ , 1974	05-05-76	1,430
Platte River Basin						
Lodgepole Creek ¹ (06762550)	South Platte River	Lat 41°14'50", long 103°38'32", in SW1/4NW1/4 sec.28, T.15 N., R.55 W., Kimball County, at county road bridge 0.8 mile north of U.S. Highway 30 at east edge of Kimball.	--	1973-75	10-14-75 11-17-75 12-14-75 01-19-76 02-18-76 03-15-76 04-12-76 05-17-76 06-14-76 07-19-76 08-16-76 09-13-76	4.5 8.2 8.6 8.0 12 15 8.6 3.6 .87 .83 .60 .39
South Platte River ¹ (06764880)	Platte River	Lat 40°07'33", long 101°34'35", in NW1/4SW1/4 sec.4, T.13 N., R.37 W., Keith County, at bridge on access road between U.S. Highway 30 and Interstate 80, about 0.5 mile southeast of Roscoe.	--		07-21-75 08-27-75 09-24-75 10-29-75 11-25-75 12-17-75 01-21-76 02-24-76 03-23-76 04-27-76 05-25-76 06-21-76 07-27-76 08-23-76 09-28-76	b37 b15 b170 88 40 268 906 432 441 161 126 17 2.6 .12 37
Spring Creek ¹ (06768015)	Platte River	Lat 40°45'13", long 99°40'22", in SW1/4NW1/4 sec.13, T.9 N., R.21 W., Dawson County, 3.2 miles southeast of Lexington.	--	1973-75	03-17-76 06-22-76 09-28-76	6.4 11 23
North Channel ¹ (06770205)	Platte River	Lat 40°40'30", long 99°00'27", in NW1/4SE1/4 sec.10, T.8 N., R.15 W., Buffalo County, 4 miles east of Kearney.	--	1973-75	02-18-76 05-25-76 08-17-76	15 97 125
Wood River ¹ (06772200)	Platte River	Lat 40°56'05", long 98°16'56", in SW1/4NW1/4SW1/4 sec.7, T.11 N., R.8 W., Merrick County, at bridge on county road 1.0 mile south of U.S. Highway 30 and 3.0 miles east of Grand Island.	--	1973-75	10-02-75 11-11-75 12-23-75 01-13-76 02-11-76 02-25-76 03-24-76 04-14-76 05-26-76 06-16-76 07-27-76 08-18-76 09-29-76	5.3 17 36 35 22 15 3.9 4.8 11 12 16 12 16

See footnotes at end of table

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Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Platte River Basin--Continued						
Middle Loup River ¹ (06777000)	Loup River	Lat 41°49'02", long 99°58'15", in NE1/4SW1/4 sec.3, T.21 N., R.23 W., Blaine County, on right bank at upstream side of Laughran bridge 9 miles upstream from Rifle Creek and 15 miles northwest of Milburn.	--	1952-56*, 1958*, 1960-64*, 1969-75	10-09-75 10-15-75 10-30-75 11-04-75 11-12-75 12-29-75 02-03-76 03-16-76 04-05-76 05-18-76 06-07-76 07-09-76 07-12-76 07-20-76 07-28-76 08-02-76 08-10-76 08-20-76 08-23-76 08-31-76 09-07-76 09-15-76 09-22-76	784 772 797 737 768 824 831 804 687 736 672 716 689 685 745 766 705 738 717 683 672 699 710
Middle Loup River ¹ (06778500)	Loup River	Lat 41°28'49", long 99°12'43", in NW1/4 sec.6, T.17 N., R.16 W., Custer County, at bridge on county-line highway 0.8 mile below part of river known as "Narrows" and 5.5 miles southeast of Comstock.	--	1937*, 1969-75	10-01-75 10-09-75 10-15-75 10-30-75 11-06-75 11-10-75 01-14-76 01-27-76 02-04-76 02-20-76 03-17-76 03-31-76 04-06-76 04-21-76	318 308 366 762 710 869 986 1,100 1,090 1,650 972 908 856 850
Mud Creek ¹ (06783000)	South Loup River	Lat 41°22'30", long 99°35'10", in NW1/4SW1/4NW1/4 sec.11, T.16 N., R.20 W., Custer County, at bridge on State Highway 2 about 3 miles southeast of Broken Bow.	--	1973-75	10-21-75 11-10-75 12-02-75 01-14-76 02-24-76 03-17-76 04-08-76 05-20-76 06-09-76 07-22-76 08-11-76 09-23-76	1.0 .67 .69 1.1 1.9 2.6 2.8 1.7 2.4 1.4 1.9 .96
Beaver Creek ¹ (06793600)	Loup River	Lat 41°41'00", long 95°58'25", in NW1/4NW1/4NE1/4 sec.26, T.20 N., R.6 W., Boone County, at county road bridge 1.3 miles southeast of junction of State Highways 14, 39, and 19 at east edge of Albion.	--	1973-75	10-06-75 11-17-75 12-09-75 01-21-76 02-09-76 03-22-76 04-12-76 05-03-76 06-14-76 07-08-76 08-16-76 09-27-76	41 53 72 46 72 87 60 70 37 41 40 41
Salt Creek ¹ (06803080)	Platte River	Lat 40°46'13", long 96°43'05", in SW1/4SW1/4 sec.2, T.9 N., R.6 E., Lancaster County, at bridge on county road 0.9 mile west of U.S. Highway 77 and at northwest corner of State Penitentiary, Lincoln.	221	1971-75	10-31-75 11-19-75 12-10-75 01-20-76 02-09-76 03-01-76 04-14-76 05-27-76 06-15-76 07-07-76 08-17-76 09-29-76	9.2 10 9.6 11 12 15 20 31 11 7.2 8.0 7.1
Salt Creek ¹ (06803190)	Platte River	Lat 40°50'03", long 96°42'03", in NE1/4SE1/4 sec.14, T.10 N., R.6 E., Lancaster County, at bridge at 14th Street at Lincoln, Nebr., 0.3 mile upstream from confluence with Oak Creek and 2.1 miles downstream from Middle Creek.	411	1971-75	12-10-75 03-03-76 05-26-76 09-29-76	26 22 63 8.1

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
Platte River Basin--Continued						
Antelope Creek ¹ (06803405)	Salt Creek	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 0.1 mile upstream from confluence with Salt Creek at Lincoln.	12.4	1971-75	12-10-75 03-03-76 05-26-76 09-29-76	1.5 1.7 1.3 2.0
Oak Creek ¹ (06803493)	Salt Creek	Lat 40°50'10", long 96°42'03", in SE1/4NE1/4 sec.14, T.10 N., R.6 E., Lancaster County, at bridge on 14th Street 0.2 mile upstream from confluence with Salt Creek, Lincoln.	258	1971-75	12-10-75 03-03-76 05-26-76 09-29-76	18 14 17 8.7
Salt Creek ¹ (06803525)	Platte River	Lat 40°54'18", long 96°35'09", in NW1/4SW1/4 sec.24, T.11 N., R.7 E., Lancaster County, at bridge 0.5 mile north of Interstate Highway 80 and 3 miles southwest of Waverly.	815	1971-75	10-30-75 11-19-75 12-08-75 01-20-76 02-09-76 03-01-76 04-14-76 05-27-76 06-15-76 07-07-76 08-17-76	63 121 77 61 72 79 87 105 66 61 56
Salt Creek ¹ (06803565)	Platte River	Lat 41°01'34", long 96°24'22", in NW1/4NW1/4 sec.10, T.12 N., R.9 E., Saunders County, at bridge on county road 2 miles southwest of Ashland.	1,118	1971-75	10-30-75 11-19-75 12-08-75 01-21-76 02-11-76 03-02-76 04-13-76 05-25-76 06-14-76 07-06-76 08-23-76 09-30-76	101 116 117 145 124 126 134 230 96 72 63 80
Silver Creek (06804495)	Wahoo Creek	Lat 41°12'22", long 96°32'37", in NE1/4NE1/4 sec.8, T.14 N., R.8 E., Saunders County, at bridge on county road 3.9 miles east of intersection of 1st Street and U.S. Highway 77 in Wahoo.	--	1974-75	10-30-75 11-20-75 12-08-75 01-21-76 02-10-76 03-02-76 04-13-76 05-25-76 06-14-76 07-06-76 08-19-76 09-28-76	3.2 6.2 4.8 4.1 4.3 4.6 4.2 4.5 3.6 2.7 1.5 1.9
Mill Creek ¹ (06805499)	Platte River	Lat 41°00'13", long 96°09'35", in NE1/4SE1/4SE1/4 sec.15, T.12 N., R.11 E., Cass County, at railroad bridge at north edge of Louisville.	--	1973-75	05-07-76	1.4
Cedar Creek ¹ (06805525)	Platte River	Lat 41°00'05", long 96°07'15", in SE1/4SE1/4SE1/4 sec.13, T.12 N., R.11 E., Cass County, at bridge on State Highway 66, 2.0 miles east of Louisville.	--	1973-75	05-07-76	6.5
Fourmile Creek ¹ (06805565)	Platte River	Lat 41°01'02", long 95°57'46", in SE1/4SW1/4 sec.9, T.12 N., R.13 E., at county road bridge 1 mile north of State Highway 66, 3.25 miles west of Maiden Lane in Plattsmouth, and 3.67 miles upstream from mouth.	--	1975	05-07-76	14
Weeping Water Creek basin						
Weeping Water Creek ¹ (06806460) *	Missouri River	Lat 40°51'18", long 96°07'10", in NW1/4NW1/4 sec.7, T.10 N., R.12 E., Cass County, at bridge of Missouri Pacific Railroad just south of north-south road, 1 mile southeast of Weeping Water.	--	1947, 1950-75	05-07-76	13
South Branch Weeping Water Creek ¹ (06806495)	Weeping Water Creek	Lat 40°48'45", long 95°56'43", in SW1/4SE1/4SW1/4 sec.22, T.10 N., R.13 E., Cass County, at bridge on U.S. Highway 34, 1.1 miles west of Union.	--	1973-75	05-07-76	12

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
Kansas River basin						
Big Blue River (06879855)	Kansas River	Lat 41°01'54", long 97°49'33", in NW1/4NW1/4 sec.7, T.12 N., R.4 W., York County, at bridge on county line road 2.5 miles west of Arborville.	--	1970c, 1974-75	06-17-76 07-16-76 08-03-76 08-17-76	0 0.83 0.72 0.53
Lincoln Creek (06879980)	Big Blue River	Lat 40°54'23", long 97°49'26", NW1/4SW1/4 sec.19, T.11 N., R.4 W., York County, at bridge on county line 4 miles northeast of Hampton.	--	1969-70c, 1974-75	06-17-76 07-16-76 08-03-76 08-17-76	0 4.1 2.4 2.5
Lincoln Creek (06879995)	Big Blue River	Lat 40°57'51", long 97°20'44", NE1/4NW1/4 sec.36, T.12 N., R.1 W., Seward County, at county road bridge 4.5 miles north of Utica.	--	1968-70c, 1974-75	06-17-76 07-16-76 08-03-76 08-17-76	0.04 3.7 15 38
Big Blue River ¹ (06880520)	Kansas River	Lat 40°52'15", long 97°04'28", in NE1/4NE1/4NW1/4 sec.3, T.10 N., R.3 E., Seward County, at county road bridge 2.5 miles southeast of Seward.	--	1973-75	10-14-75 11-18-75 12-10-75 01-21-76 02-12-76 03-05-76 04-13-76 06-16-76 07-07-76 08-18-76 09-07-76	11 12 26 17 21 25 34 5.9 3.9 67 8.4
West Fork Big Blue River ¹ (06880556)	Big Blue River	Lat 40°36'28", long 98°20'06", in NW1/4NW1/4 sec.3, T.7 N., R.9 W., Adams County, at county road bridge 2 miles northeast of Hastings.	--	1973-75	01-19-76 04-26-76 07-20-76	6.3 6.5 18
West Fork Big Blue River (06880559)	Big Blue River	Lat 40°41'41", long 98°03'06", SW1/4NW1/4 sec.6, T.8 N., R.6 W., Clay County, at county road bridge 3.1 miles northwest of Eldorado.	--		06-17-76 07-15-76 08-02-76 08-16-76 09-30-76	15 16 15 15 16
West Fork Big Blue River (06880610)	Big Blue River	Lat 40°43'28", long 97°50'35", SW1/4SW1/4 sec.19, T.9 N., R.4 W., Hamilton County, at county road bridge 5.4 miles east of Stockham.	--	1969-70c, 1974-75	06-17-76 07-16-76 08-03-76 08-17-76	12 27 24 27
School Creek (06880745)	West Fork Big Blue River	Lat 40°38'25", long 97°46'58", NE1/4NE1/4 sec.25, T.8 N., R.5 W., Clay County, at county road bridge on county line 3 miles northeast of Sutton.	--	1974-75	06-17-76 07-15-76 08-07-76 08-16-76 09-30-76	0.30 1.7 3.9 3.1 2.4
West Fork Big Blue River (06880760)	Big Blue River	Lat 40°47'10", long 97°21'53", SE1/4SE1/4 sec.36, T.10 N., R.1 W., Seward County, at bridge on county line 4 miles west of Beaver Crossing.	--	1969-70c, 1974-75	06-17-76 07-15-76 08-02-76 08-16-76 09-30-76	26 15 43 34 18
Beaver Creek (06880770)	West Fork Big Blue River	Lat 40°51'33", long 97°49'26", in SW1/4SW1/4 sec.6, T.10 N., R.4 W., York County, at bridge on county-line road 4 miles southeast of Hampton.	--	1969-70c, 1972-75	06-17-76 07-16-76 08-03-76 08-17-76	0 3.2 .39 2.0
Beaver Creek (06880785)	West Fork Big Blue River	Lat 40°47'49", long 97°20'44", NE1/4SE1/4 sec.25, T.10 N., R.1 W., Seward County, at county road bridge 3.5 miles northwest of Beaver Crossing.	--	1968-70c, 1974-75	06-17-76 07-15-76 08-02-76 08-16-76 09-30-76	2.4 2.3 3.4 6.4 2.3
Indian Creek (06880788)	West Fork Big Blue River	Lat 40°43'15", long 97°21'53", SE1/4NE1/4 sec.25, T.9 N., R.1 W., Seward County, at bridge on county line 1 mile west of Cordova.	--	1969-70c, 1974-75	06-17-76 07-15-76 08-02-76 08-16-76 09-30-76	0 0 .32 .34 3.7
Turkey Creek (06881110)	Big Blue River	Lat 40°33'12", long 97°22'05", SW1/4SW1/4 sec.19, T.7 N., R.1 E., Saline County, at bridge on county line 3.7 miles northeast of Milligan.	--	1968-69	06-17-76 07-15-76 08-02-76 08-16-76 09-30-76	1.8 5.2 4.5 13 9.5
Big Sandy Creek (06883583)	Little Blue River	Lat 40°21'02", long 97°52'37", in SW1/4SW1/4 sec.34, T.5 N., R.5 W., Clay County, at county road bridge 4 miles southwest of Onq.	--	1970c, 1974-75	06-17-76 07-15-76 08-02-76 08-16-76 09-30-76	0 5.5 4.1 8.0 .27

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Kansas River basin--Continued						
Little Sandy Creek (06883590)	Big Sandy Creek	Lat 40°22'56", long 97°49'26", in SE1/4SE1/4 sec.24, T.5 N., R.5 W., Clay County, at county road bridge 1.2 miles southeast of Onq.	--	1970c, 1974-75	06-17-76	0
					07-15-76	5.7
					08-02-76	.89
					08-16-76	2.9
					09-30-76	.17
Dry Sandy Creek (06883925)	Big Sandy Creek	Lat 40°21'02", long 97°32'45", SW1/4SE1/4 sec.33, T.5 N., R.2 W., Fillmore County, at bridge on county line 1.4 miles northeast of Bruning.	--		06-17-76	0
					07-15-76	13
					08-02-76	2.4
					08-16-76	5.9
					09-30-76	4.3

* Also a crest-stage gage.

† Operated as a continuous-record gaging station.

‡ Also published with additional data in Part 2 of this report.

a Gage heights, or gage heights and discharge measurements only.

b Not previously published.

c Published as a low-flow partial-record station.

Willow Creek basin base-flow investigations

Several base-flow discharge measurements were made on the main stem of Willow Creek in Pierce and Antelope Counties, Nebr., during the 1976 water year. The data collected were used to calibrate a ground-water surface-water numerical model of the hydrologic system of the area. The purpose of the model is to estimate the future stream discharge of Willow Creek available for storage in a planned reservoir near Pierce, Nebr. The measurements are listed in downstream order.

Location	Measured discharge, in cubic feet per second	
	Date	Discharge
NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.14, T.26 N., R.5 W.	04-08-76	0.59
SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.17, T.26 N., R.4 W.	04-08-76	2.2
	08-26-76	.01
SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.20, T.26 N., R.4 W.	10-30-75	.37
	04-08-76	2.8
	08-26-76	.24
NW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.21, T.26 N., R.4 W.	04-08-76	3.8
	04-29-76	4.4
NW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.21, T.26 N., R.4 W.	05-20-76	2.6
	08-26-76	.73
NW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.21, T.26 N., R.4 W.	04-29-76	6.3
	05-20-76	2.6
	08-26-76	.80
NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.21, T.26 N., R.4 W.	05-20-76	3.3
	08-26-76	.91
SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.22, T.26 N., R.4 W.	10-30-75	2.3
	04-08-76	6.1
	04-29-76	6.0
	08-26-76	1.2
SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.26, T.26 N., R.4 W.	04-08-76	8.0
	08-26-76	2.4
SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.26 T.26 N., R.4 W.	10-30-75	5.9
	04-08-76	9.6
	08-26-76	2.7
NW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.31, T.26 N., R.3 W.	04-08-76	11
	08-26-76	3.7
NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.31, T.26 N., R.3 W.	10-30-75	6.6
	04-08-76	11
	08-26-76	4.0
NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.32, T.26 N., R.3 W.	04-08-76	12
	08-26-76	3.9
NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.32, T.26 N., R.3 W.	04-08-76	3.4
	08-26-76	3.3
NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.11, T.25 N., R.3 W.	10-30-75	6.1
	04-08-76	11
	08-26-76	3.2
NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.6, T.25 N., R.2 W.	04-08-76	12
	08-26-76	.07
NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.5, T.25 N., R.2 W.	10-30-75	7.2
	04-08-76	13
	08-26-76	.07
SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.33, T.26 N., R.2 W.	04-08-76	14
	08-26-76	.49
NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.34, T.26 N., R.2 W	10-30-75	11
	04-08-76	17
	08-26-76	1.6
SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.26, T.26 N., R.2 W.	10-30-75	10
	04-08-76	17
	08-26-76	.16

Upper Republican River basin seepage investigations

A series of discharge measurements was made in Chase and Perkins Counties, Nebr., during the 1976 water year. All tributaries on the north side of the Republican River and the Frenchman Creek and its tributaries were measured on October 6, 7, and 8. The data collected were used to determine ground-water surface-water relationships and stream depletions due to irrigation well withdrawals. The measurements are listed in downstream order.

Location	Measured discharge, in cubic feet per second
	October 6,7,8
Buffalo Creek between secs.26 and 35, T.2 N., R.41 W.	7.2
Rock Creek above fish hatchery in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.13, T.2 N., R.40 W.	.28
Rock Creek below fish hatchery in SE $\frac{1}{4}$ sec.25, T.2 N., R.40 W.	8.4
Rock Creek at recreation area in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.31, T.2 N., R.39 W.	15
Rock Creek at Parks in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.21, T.1 N., R.39 W.	11
Horse Creek near Parks in SW $\frac{1}{4}$ sec.2, T.1 N., R.39 W.	.20
Spring Creek 7 mi northwest of Benkelman in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.34, T.2 N., R.38 W.	.06
Spring Creek near Benkelman in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.1 N., R.38 W.	.28
Indian Creek 8.5 mi north of Benkelman in sec.6, T.2 N., R.37 W.	.24
Indian Creek 9 mi northeast of Benkelman in SE $\frac{1}{4}$ sec.5, T.2 N., R.37 W.	.16
Rock Canyon 5 mi northwest of Max in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.12, T.2 N., R.37 W.	.05
Indian Creek 4 mi northwest of Max in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.12, T.2 N., R.37 W.	2.0
Indian Creek 2 mi north of Max in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.17, T.2 N., R.36 W.	1.9
Indian Creek 3 mi northeast of Max in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.22, T.2 N., R.36 W.	2.0
Muddy Creek northwest of Max in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.35, T.4 N., R.37 W.	0
Muddy Creek 11 mi north of Max in sec.7, T.3 N., R.36 W.	0
Muddy Creek 7 mi north of Max in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.27, T.3 N., R.36 W.	.27
Muddy Creek 6 mi northeast of Max in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.1, T.2 N., R.36 W.	.20
Frenchman Creek 3.5 mi south of Lamar in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.32, T.7 N., R.41 W.	0
Frenchman Creek above Arterburn Lake in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.3, T.6 N., R.41 W.	.65
Frenchman Creek below Arterburn Lake in SW $\frac{1}{4}$ sec.12, T.6 N., R.41 W.	0
Maranville Canal in NW $\frac{1}{4}$ sec.13, T.6 N., R.41 W.	0
Maranville flowing well in SW $\frac{1}{4}$ sec.13, T.6 N., R.41 W.	.21
Waln Slough near Lamar in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.17, T.6 N., R.40 W.	0
Kimberling flowing well in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.17, T.6 N., R.40 W.	.....
Kimberling flowing well in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.20, T.6 N., R.40 W.	1.2
Frenchman Creek above McGuires Slough in NE $\frac{1}{4}$ sec.20, T.6 N., R.40 W.	9.2
McGuires Slough near Champion in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.20, T.6 N., R.40 W.	1.2
Frenchman Creek above Kilpatrick Reservoir No. 1 in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.21, T.6 N., R.40 W.	12
Kimberling flowing well in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.19, T.6 N., R.39 W.	.....
Frenchman Creek below Kilpatrick Reservoir No. 1 in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.22, T.6 N., R.40 W.	.80
Champion Canal near Champion in SW $\frac{1}{4}$ sec.23, T.6 N., R.40 W.	10
Frenchman Creek near Champion in sec.24, T.6 N., R.40 W.	8.2
Beard flowing well in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.19, T.6 N., R.39 W.	1.7
Davison Branch near Champion in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.20, T.6 N., R.39 W.	0

Upper Republican River basin seepage investigations--Continued

Location	Measured discharge, in cubic feet per second
	October 6,7,8
Frenchman Creek above Mill Pond in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.20, T.6 N., R.39 W.	17
Sand Creek near Champion in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.22, T.6 N., R.39 W.	.48
Frenchman Creek below Sand Creek in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.23, T.6 N., R.39 W.	21
Foerster Branch near Champion in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.26, T.6 N., R.39 W.	0
Frenchman Creek south of Imperial in SE $\frac{1}{4}$ sec.31, T.6 N., R.38 W.	66
Frenchman Creek near Imperial in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.3, T.5 N., R.38 W.	37
Unnamed Canyon at Enders Dam in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.5 N., R.37 W.	0,0.21
Frenchman Creek below Enders Reservoir in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.3, T.5 N., R.37 W.	4.6
Unnamed Canyon below Enders Dam in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.2, T.5 N., R.37 W.	0
Frenchman Creek 5 mi west of Wauneta in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.1, T.5 N., R.37 W.	8.3
Frenchman Creek 3.5 mi west of Wauneta in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.8, T.5 N., R.36 W.	12
Unnamed Canyon at Wauneta in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.5 N., R.36 W.	.02
Unnamed Canyon at Wauneta in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.5 N., R.36 W.	0
Frenchman Creek at Wauneta in NE $\frac{1}{4}$ sec.11, T.5 N., R.36 W.	17
Unnamed Canyon 1 mi east of Wauneta in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.12, T.5 N., R.36 W.	0
Frenchman Creek at Chase County line in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.12, T.5 N., R.36 W.	17
Stinking Water Creek near Perkins County line in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.6, T.8 N., R.36 W.	.04
Stinking Water Creek 2.5 mi south of Perkins County line in W $\frac{1}{2}$ sec.16, T.8 N., R.36 W.	.61
Stinking Water Creek near Imperial in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.28, T.8 N., R.36 W.	1.9
Stinking Water Creek near Imperial in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.2, T.7 N., R.36 W.	4.1
Cliff Dwellers Canyon near Imperial in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.7 N., R.36 W.	0
Stinking Water Creek near Imperial in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.7 N., R.36 W.	3.1
Stinking Water Creek above Spring Creek in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.1, T.6 N., R.36 W.	3.4
Spring Creek 11 mi northwest of Imperial in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.30, T.8 N., R.38 W.	.15
Spring Creek 8 mi northwest of Imperial in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.33, T.8 N., R.38 W.	.54
Spring Creek 6 mi north of Imperial in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.7 N., R.38 W.	.86
Spring Creek 6 mi northeast of Imperial in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.13, T.7 N., R.38 W.	3.6
Spring Creek 8 mi northeast of Imperial in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.29, T.7 N., R.37 W.	6.4
Spring Creek 10 mi east of Imperial in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.36, T.7 N., R.37 W.	8.5
Spring Creek 9 mi northwest of Wauneta in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.32, T.7 N., R.36 W.	8.8
Spring Creek 8 mi north of Wauneta in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.3, T.6 N., R.36 W.	8.2
Spring Creek above Stinking Water Creek in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.12, T.6 N., R.36 W.	9.0
Stinking Water Creek below Spring Creek in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.12, T.6 N., R.36 W.	15

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

Water-quality partial-record stations are particular sites where chemical-quality, biological and or sediment data are collected systematically over a period of years for use in hydrologic analyses. The data are collected usually less than quarterly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT) UNITS (00080)	HARDNESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DIS-SOLVED CALCIUM (CA) (MG/L) (00915)	DIS-SOLVED MAGNESIUM (MG) (MG/L) (00925)
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NIOBRARA RIVER BASIN

06465050 - EAGLE CREEK NEAR MIDWAY NEBR (LAT 42 38 02 LONG 098 46 29)

OCT , 1975										
28...	1535	14	256	7.5	9.5	8	110	4	36	4.9

06465100 - EASTBRANCH EAGLE CREEK NR MIDWAY NEBR (LAT 42 37 30 LONG 098 45 56)

OCT , 1975										
28...	1625	6.5	263	7.4	10.0	4	130	0	44	4.4

06465398 - REDBIRD CREEK NR MEEK NEBRASKA (LAT 42 39 33 LONG 098 33 31)

OCT , 1975										
28...	1310	12	208	8.0	10.0	8	85	0	28	3.6

06465420 - BLACKBIRD CREEK NEAR MEEK NEBR (LAT 42 39 46 LONG 098 34 24)

OCT , 1975										
28...	1410	5.3	243	7.3	9.5	5	110	0	38	4.4

DATE	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	DIS-SOLVED PHOSPHATE (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CAC03 (MG/L) (00410)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS-SOLVED FLUORIDE (F) (MG/L) (00950)
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06465050 - EAGLE CREEK NEAR MIDWAY NEBR (LAT 42 38 02 LONG 098 46 29)

OCT , 1975									
28...	9.0	.4	6.1	129	0	106	8.9	4.1	.2

06465100 - EASTBRANCH EAGLE CREEK NR MIDWAY NEBR (LAT 42 37 30 LONG 098 45 56)

OCT , 1975									
28...	6.7	.3	5.4	162	0	133	5.7	2.5	.3

06465398 - REDBIRD CREEK NR MEEK NEBRASKA (LAT 42 39 33 LONG 098 33 31)

OCT , 1975									
28...	7.3	.3	5.5	106	0	87	7.7	1.5	.2

06465420 - BLACKBIRD CREEK NEAR MEEK NEBR (LAT 42 39 46 LONG 098 34 24)

OCT , 1975									
28...	7.7	.3	5.5	142	0	116	6.4	1.5	.2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED (SUM OF TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
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NIOBRARA RIVER BASIN--CONTINUED

06465050 - EAGLE CREEK NEAR MIDWAY NEBR (LAT 42 38 02 LONG 098 46 29)

OCT , 1975 28...	37	185	.25	6.99	3.4	.07	40	30	10
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06465100 - EASTBRANCH EAGLE CREEK NR MIDWAY NEBR (LAT 42 37 30 LONG 098 45 56)

OCT , 1975 28...	48	200	.27	3.51	.77	.02	30	0	5
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06465398 - REDBIRD CREEK NR MEEK NEBRASKA (LAT 42 39 33 LONG 098 33 31)

OCT , 1975 28...	41	153	.21	5.16	1.3	.04	30	30	10
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06465420 - BLACKBIRD CREEK NEAR MEEK NEBR (LAT 42 39 46 LONG 098 34 24)

OCT , 1975 28...	43	183	.25	2.62	1.3	.05	30	20	10
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WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)
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PLATTE RIVER BASIN

06801330 - SALT CREEK NEAR ROCA, NEBR. (LAT 40 38 41 LONG 096 41 11)

DEC , 1975										
15...	1300	9.2	1430	7.6	.0	--	10	15.3	4.1	83
MAR , 1976										
09...	1400	11	1270	7.9	4.0	6	5	14.0	3.4	16
JUN										
03...	1145	10	1250	7.5	20.5	--	75	5.8	8.2	333
SEP										
15...	0915	4.3	1990	7.4	19.0	12	50	7.5	2.6	310

06803190 - SALT CREEK AT 14TH STREET, AT LINCOLN, NEBR. (LAT 40 50 03 LONG 096 42 03)

DEC , 1975										
10...	1330	26	8380	8.9	8.0	--	7	12.5	1.6	30
MAR , 1976										
03...	1315	22	7520	7.8	4.0	6	15	18.4	3.0	10
MAY										
26...	1050	63	4230	7.8	18.0	--	180	7.0	4.4	700
SEP										
29...	0950	8.1	10700	6.7	11.0	5	5	8.2	6.5	933

06803405 - ANTELOPE CREEK AT COURT STREET, AT LINCOLN, NEBR (LAT 40 49 44 LONG 096 41 58)

DEC , 1975										
10...	1300	1.5	6940	8.6	13.5	--	5	12.3	4.3	40
MAR , 1976										
03...	1345	1.7	6760	8.3	3.0	1	10	20.4	4.3	17
MAY										
26...	0920	1.3	5930	8.0	16.0	--	4	14.9	1.8	48
SEP										
29...	0900	2.0	6970	6.9	13.0	--	5	10.1	3.8	200

DATE	TIME	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	HARD- NESS (CA+MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)
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06801330 - SALT CREEK NEAR ROCA, NEBR. (LAT 40 38 41 LONG 096 41 11)

DEC , 1975										
15...	288	--	--	--	--	--	--	--	--	--
MAR , 1976										
09...	232	310	87	91	19	140	3.5	7.9	266	0
JUN										
03...	200	--	--	--	--	--	--	--	--	--
SEP										
15...	940	340	170	99	23	290	6.8	10	215	0

06803190 - SALT CREEK AT 14TH STREET, AT LINCOLN, NEBR. (LAT 40 50 03 LONG 096 42 03)

DEC , 1975										
10...	92	--	--	--	--	--	--	--	--	--
MAR , 1976										
03...	24	390	100	100	34	1500	33	11	353	0
MAY										
26...	3400	--	--	--	--	--	--	--	--	--
SEP										
29...	460	480	230	120	43	2300	46	17	305	0

06803405 - ANTELOPE CREEK AT COURT STREET, AT LINCOLN, NEBR (LAT 40 49 44 LONG 096 41 58)

DEC , 1975										
10...	112	--	--	--	--	--	--	--	--	--
MAR , 1976										
03...	20	410	180	110	32	1300	28	12	277	0
MAY										
26...	560	--	--	--	--	--	--	--	--	--
SEP										
29...	4000	470	250	130	36	1300	26	16	267	0

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ALKA- LITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (S102) (MG/L) (00955)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)
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PLATTE RIVER BASIN--CONTINUED

06801330 - SALT CREEK NEAR ROCA, NEBR. (LAT 40 38 41 LONG 096 41 11)

DEC , 1975										
15...	--	--	220	--	--	868	--	1.18	21.6	.34
MAR , 1976										
09...	218	130	190	.4	16	758	726	1.03	23.7	.35
JUN										
03...	--	--	170	--	--	751	--	1.02	20.5	1.2
SEP										
15...	176	170	430	.4	13	1180	1140	1.60	13.7	.65

06803190 - SALT CREEK AT 14TH STREET, AT LINCOLN, NEBR. (LAT 40 50 03 LONG 096 42 03)

DEC , 1975										
10...	--	--	2500	--	--	5000	--	6.80	355	.70
MAR , 1976										
03...	290	320	2100	.5	12	4350	4250	5.92	258	.33
MAY										
26...	--	--	1100	--	--	2400	--	3.26	408	1.9
SEP										
29...	250	450	3400	.6	15	6560	6500	8.92	144	.38

06803405 - ANTELOPE CREEK AT COURT STREET, AT LINCOLN, NEBR (LAT 40 49 44 LONG 096 41 58)

DEC , 1975										
10...	--	--	1900	--	--	3810	--	5.18	15.4	4.0
MAR , 1976										
03...	227	310	2000	.5	29	4000	3930	5.44	18.4	4.4
MAY										
26...	--	--	1700	--	--	3560	--	4.84	12.5	3.7
SEP										
29...	219	340	2000	.6	36	4100	3990	5.58	22.4	5.0

DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
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06801330 - SALT CREEK NEAR ROCA, NEBR. (LAT 40 38 41 LONG 096 41 11)

DEC , 1975									
15...	.08	1.0	1.1	1.4	.19	.18	--	--	--
MAR , 1976									
09...	.00	.78	.78	1.1	.19	.16	180	--	--
JUN									
03...	.22	1.9	2.1	3.3	.57	.18	--	--	--
SEP									
15...	.23	.61	.84	1.5	.41	.41	190	--	--

06803190 - SALT CREEK AT 14TH STREET, AT LINCOLN, NEBR. (LAT 40 50 03 LONG 096 42 03)

DEC , 1975									
10...	.51	.99	1.5	2.2	.21	.14	--	--	--
MAR , 1976									
03...	.28	1.0	1.3	1.6	.20	.11	480	--	--
MAY									
26...	.25	1.8	2.0	3.9	.55	.27	--	--	--
SEP									
29...	.47	.34	.81	1.2	.56	.17	710	--	--

06803405 - ANTELOPE CREEK AT COURT STREET, AT LINCOLN, NEBR (LAT 40 49 44 LONG 096 41 58)

DEC , 1975									
10...	.12	.86	.98	5.0	2.5	2.5	--	--	--
MAR , 1976									
03...	.03	.27	.30	4.7	3.8	3.8	280	--	--
MAY									
26...	.09	.29	.38	4.1	.26	.26	--	--	--
SEP									
29...	.01	.28	.29	5.3	.46	.46	300	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)
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PLATTE RIVER BASIN--CONTINUED

06803493 - OAK CREEK AT 14TH STREET, AT LINCOLN, NEBR. (LAT 40 50 10 LONG 096 42 03)

DEC , 1975										
10...	1400	18	5560	8.9	5.0	--	6	19.3	2.6	33
MAR , 1976										
03...	1345	14	5790	8.0	2.0	7	60	20.4	5.0	30
MAY										
26...	1130	17	6460	8.0	18.0	--	20	11.1	3.9	310
SEP										
29...	1035	8.7	7830	7.3	12.0	7	10	9.0	3.8	220

06803510 - LITTLE SALT CREEK NEAR LINCOLN, NEBR. (LAT 40 53 36 LONG 096 40 52)

APR , 1976										
27...	1115	32	4390	7.5	5.5	110	1400	7.1	7.6	81000
JUL										
22...	1400	5.5	7140	8.1	28.0	35	85	8.0	6.3	50000

06803523 - STEVENS CREEK AT HIGHWAY 6, NEAR LINCOLN, NEBR. (LAT 40 52 35 LONG 096 36 16)

DEC , 1975										
08...	1400	1.4	675	7.2	2.5	19	10	10.4	4.3	1730
MAR , 1976										
03...	1130	2.0	532	7.7	--	2	10	14.2	3.6	1930
MAY										
27...	1030	2.3	636	7.6	18.5	11	19	7.2	3.8	2500
SEP										
29...	1130	.42	668	8.1	13.5	18	10	8.6	5.4	3800

06805499 - MILL CREEK AT LOUISVILLE NEBR (LAT 41 00 13 LONG 096 09 35)

MAY , 1976											
07...	1000	1.4	521	7.8	10.0	5	25	8.2	5.0	590	
	STREP- TOCOCCI (COL- ONIES PER	HARD- NESS (CA,MG)	NON- CAR- BONATE HARD- NESS	DIS- SOLVED CAL- CIUM (CA)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K)	BICAR- BONATE (HCO3)	CAR- BONATE (CO3)	
DATE	100 ML (31679)	(MG/L) (00900)	(MG/L) (00902)	(MG/L) (00915)	(MG/L) (00925)	(MG/L) (00930)	(00931)	(MG/L) (00935)	(MG/L) (00440)	(MG/L) (00445)	

06803493 - OAK CREEK AT 14TH STREET, AT LINCOLN, NEBR. (LAT 40 50 10 LONG 096 42 03)

DEC , 1975										
10...	36	--	--	--	--	--	--	--	--	--
MAR , 1976										
03...	120	370	37	100	29	1000	23	12	405	0
MAY										
26...	600	--	--	--	--	--	--	--	--	--
SEP										
29...	296	290	78	73	25	1600	41	14	253	0

06803510 - LITTLE SALT CREEK NEAR LINCOLN, NEBR. (LAT 40 53 36 LONG 096 40 52)

APR , 1976										
27...	85000	200	8	53	16	860	27	15	232	0
JUL										
22...	28500	300	120	79	26	1400	35	22	222	0

06803523 - STEVENS CREEK AT HIGHWAY 6, NEAR LINCOLN, NEBR. (LAT 40 52 35 LONG 096 36 16)

DEC , 1975										
08...	620	270	0	77	18	43	1.1	6.8	344	0
MAR , 1976										
03...	484	240	0	65	18	44	1.2	5.5	309	0
MAY										
27...	400	250	0	72	18	41	1.1	7.9	331	0
SEP										
29...	232	240	0	67	18	50	1.4	8.4	313	0

06805499 - MILL CREEK AT LOUISVILLE NEBR (LAT 41 00 13 LONG 096 09 35)

MAY , 1976										
07...	--	230	3	63	17	24	.7	5.9	273	0

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO-GEN (N) (MG/L) (00605)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L) (00666)	DIS-SOLVED BORON (B) (UG/L) (01020)	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)
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PLATTE RIVER BASIN--CONTINUED

06803493 - OAK CREEK AT 14TH STREET, AT LINCOLN, NEBR. (LAT 40 50 10 LONG 096 42 03)

DEC , 1975									
10...	.46	.94	1.4	2.5	.21	.16	--	--	--
MAR , 1976									
03...	.22	1.5	1.7	2.2	.31	.11	400	--	--
MAY									
26...	.32	1.8	2.1	2.2	.23	.07	--	--	--
SEP									
29...	.29	.91	1.2	1.3	.18	.14	480	--	--

06803510 - LITTLE SALT CREEK NEAR LINCOLN, NEBR. (LAT 40 53 36 LONG 096 40 52)

APR , 1976									
27...	.50	16	16	17	2.4	.44	730	--	--
JUL									
22...	.18	1.8	2.0	2.9	.54	.35	1000	--	--

06803523 - STEVENS CREEK AT HIGHWAY 6, NEAR LINCOLN, NEBR. (LAT 40 52 35 LONG 096 36 16)

DEC , 1975									
08...	.28	.57	.85	2.9	.37	.36	130	--	--
MAR , 1976									
03...	.18	.92	1.1	1.7	.25	.19	110	--	--
MAY									
27...	.25	.85	1.1	2.1	.40	.37	130	--	--
SEP									
29...	1.3	1.0	2.3	2.7	.85	.85	280	--	--

06805499 - MILL CREEK AT LOUISVILLE NEBR (LAT 41 00 13 LONG 096 09 35)

MAY , 1976									
07...	.02	.49	.51	3.3	.30	.21	310	30	430

DATE	ALKA-LINITY AS CAC03 (MG/L) (00410)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED (RESI-DUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)
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06803493 - OAK CREEK AT 14TH STREET, AT LINCOLN, NEBR. (LAT 40 50 10 LONG 096 42 03)

DEC , 1975										
10...	--	--	1500	--	--	3240	--	4.41	157	1.1
MAR , 1976										
03...	332	220	1500	.5	15	3270	3080	4.45	124	.45
MAY										
26...	--	--	1900	--	--	3700	--	5.03	170	.06
SEP										
29...	208	270	2300	.3	6.3	4480	4410	6.09	106	.10

06803510 - LITTLE SALT CREEK NEAR LINCOLN, NEBR. (LAT 40 53 36 LONG 096 40 52)

APR , 1976										
27...	190	260	1200	.4	9.0	2570	2530	3.50	222	.81
JUL										
22...	182	440	2000	.6	6.9	4020	4090	5.47	59.8	.94

06803523 - STEVENS CREEK AT HIGHWAY 6, NEAR LINCOLN, NEBR. (LAT 40 52 35 LONG 096 36 16)

DEC , 1975										
08...	282	63	16	.3	23	441	417	.60	1.67	2.0
MAR , 1976										
03...	253	60	13	.3	5.9	384	364	.52	2.07	.58
MAY										
27...	271	64	12	.3	14	421	393	.57	2.61	1.0
SEP										
29...	257	66	34	.3	17	417	415	.57	.47	.36

06805499 - MILL CREEK AT LOUISVILLE NEBR (LAT 41 00 13 LONG 096 09 35)

MAY , 1976										
07...	224	34	9.8	.4	21	315	310	.43	1.19	2.8

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- IDY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI- FORM (COL. PER 100 ML) (31616)
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PLATTE RIVER BASIN--CONTINUED

06805525 - CEDAR CREEK NEAR LOUISVILLE NEBR (LAT 41 00 05 LONG 096 07 15)

MAY , 1976	07...	1045	6.5	483	7.9	9.0	7	35	9.0	6.2	767
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06805565 - FOURMILE CREEK NEAR PLATTSMOUTH, NEBR. (LAT 41 01 02 LONG 095 57 46)

MAY , 1976	07...	1145	14	489	8.2	11.0	3	45	9.8	3.1	470
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DATE	100 ML (31679)	STREP- TOCOCCEI (COL- ONIES PER (CA, MG) (MG/L) (00900)	HARD- NESS (MG/L) (00902)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HC03) (MG/L) (00440)	CAR- BONATE (C03) (MG/L) (00445)
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06805525 - CEDAR CREEK NEAR LOUISVILLE NEBR (LAT 41 00 05 LONG 096 07 15)

MAY , 1976	07...	--	210	0	58	15	22	.7	3.4	262	0
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06805565 - FOURMILE CREEK NEAR PLATTSMOUTH, NEBR. (LAT 41 01 02 LONG 095 57 46)

MAY , 1976	07...	--	220	7	62	17	16	.5	2.5	265	0
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DATE	ALKA- LITY AS CAC03 (MG/L) (00410)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)
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06805525 - CEDAR CREEK NEAR LOUISVILLE NEBR (LAT 41 00 05 LONG 096 07 15)

MAY , 1976	07...	215	24	6.4	.3	19	295	278	.40	5.18	3.8
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06805565 - FOURMILE CREEK NEAR PLATTSMOUTH, NEBR. (LAT 41 01 02 LONG 095 57 46)

MAY , 1976	07...	217	24	4.5	.3	23	301	281	.41	11.4	5.8
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DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
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06805525 - CEDAR CREEK NEAR LOUISVILLE NEBR (LAT 41 00 05 LONG 096 07 15)

MAY , 1976	07...	.02	.57	.59	4.4	.31	.22	150	20	400
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06805565 - FOURMILE CREEK NEAR PLATTSMOUTH, NEBR. (LAT 41 01 02 LONG 095 57 46)

MAY , 1976	07...	.02	.40	.42	6.2	.31	.19	610	20	500
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WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	SPECIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- IDY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	HARD- NESS (CA, MG) (00900)
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WEEPING WATER CREEK BASIN

06806460 - WEEPING WATER CR AT WEEPING WATER, NEBR. (LAT 40 51 18 LONG 096 07 10)

MAY , 1976	07...	1445	13	554	7.8	14.5	23	55	6.7	5800	220
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06806495 - S BR WEEPING WATER CREEK NEAR UNION NEBR (LAT 40 48 45 LONG 095 56 43)

MAY , 1976	07...	1345	12	510	8.0	15.5	8	55	8.2	300	230
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DATE	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	ALKA- LINITY AS CAC03 (MG/L) (00410)
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06806460 - WEEPING WATER CR AT WEEPING WATER, NEBR. (LAT 40 51 18 LONG 096 07 10)

MAY , 1976	07...	13	63	16	32	.9	6.3	256	0	210
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06806495 - S BR WEEPING WATER CREEK NEAR UNION NEBR (LAT 40 48 45 LONG 095 56 43)

MAY , 1976	07...	2	68	15	21	.6	4.1	280	0	230
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DATE	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)
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06806460 - WEEPING WATER CR AT WEEPING WATER, NEBR. (LAT 40 51 18 LONG 096 07 10)

MAY , 1976	07...	73	7.2	.4	15	342	340	.47	12.0	2.7
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06806495 - S BR WEEPING WATER CREEK NEAR UNION NEBR (LAT 40 48 45 LONG 095 56 43)

MAY , 1976	07...	29	5.9	.4	20	312	302	.42	10.1	3.6
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DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
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06806460 - WEEPING WATER CR AT WEEPING WATER, NEBR. (LAT 40 51 18 LONG 096 07 10)

MAY , 1976	07...	.02	1.3	1.3	4.0	.42	.24	220	60	260
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06806495 - S BR WEEPING WATER CREEK NEAR UNION NEBR (LAT 40 48 45 LONG 095 56 43)

MAY , 1976	07...	.02	.88	.90	4.5	.32	.19	430	30	360
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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)
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KANSAS RIVER BASIN

06829500 - REPUBLICAN RIVER AT TRENTON, NEBR. (LAT 40 10 00 LONG 101 01 40)

NOV							
06...	1115	1.0	820	7.9	12.0	7	15.3
DEC							
16...	1230	1.0	820	7.8	3.0	4	14.0
JAN							
14...	0945	1.1	740	7.7	3.0	5	10.7
JUL							
08...	1015	145	680	8.2	22.0	15	7.4
AUG							
11...	1230	113	660	8.0	24.0	20	7.2

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (CA+MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)
JAN											
14...	0945	6	240	0	65	20	69	1.9	7.4	317	0
JUL											
08...	1015	2	200	14	43	22	40	1.2	16	224	0

DATE	ALKA- LILITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN											
14...	260	120	16	1.4	35	496	1.47	.67	1.2	.02	170
JUL											
08...	184	96	12	1.1	4.1	345	135	.47	.02	.01	130

Samples are collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin. Such sites are referred to as miscellaneous sites.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)
NIOBRARA RIVER BASIN									
06459200 - SNAKE RIVER ABV MERRITT RESERVOIR NEBR (LAT 42 35 40 LONG 101 02 20)									
DEC , 1975					MAY , 1976				
02...	1310	262	189	1.0	12...	1500	203	170	15.5
JAN , 1976					JUN				
06...	1100	226	169	.0	02...	1455	197	172	25.5
FEB					JUL				
17...	1045	226	161	5.5	14...	1015	189	175	20.0
MAR					AUG				
09...	1125	222	166	5.5	03...	1025	205	168	18.0
APR					SEP				
20...	1515	215	166	17.0	14...	0950	189	170	15.5
06461500 - NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 10 LONG 100 21 40)									
DEC , 1975					MAY , 1976				
03...	0955	772	227	.5	12...	0910	597	236	12.5
JAN , 1976					JUN				
06...	1555	598	213	.0	02...	0855	641	215	19.0
FEB					JUL				
16...	1600	960	218	7.0	15...	0850	420	242	21.5
MAR					AUG				
08...	1650	1060	230	3.0	04...	1230	274	232	22.0
APR					SEP				
20...	0850	978	230	9.0	14...	1600	424	218	20.5
06465000 - NIOBRARA RIVER NEAR SPENCER, NEBR. (LAT 42 48 33 LONG 098 30 19)									
OCT , 1975					APR , 1976				
06...	1755	814	251	17.5	15...	1250	1490	249	19.0
NOV					MAY				
17...	1410	1120	243	6.0	05...	1150	1110	250	13.5
DEC					JUN				
10...	1410	1500	241	.5	17...	1040	736	253	19.0
JAN , 1976					JUL				
22...	1550	1550	256	.5	07...	1410	590	241	25.5
FEB					AUG				
11...	1220	1870	236	2.0	18...	1440	759	236	26.0
MAR					SEP				
25...	1100	1230	271	9.5	10...	1055	734	239	16.0
PLATTE RIVER BASIN									
06771500 - WOOD RIVER NEAR GIBBON, NEBR. (LAT 40 46 10 LONG 098 48 00)									
OCT , 1975					APR , 1976				
03...	0900	.18	2330	9.0	27...	0855	.07	1690	7.0
NOV					MAY				
11...	1150	.55	235	8.0	25...	0850	.24	715	14.0
DEC					JUN				
09...	1025	.29	2450	.0	22...	0845	.47	273	19.5
JAN , 1976					JUL				
06...	1130	.10	2900	.5	20...	1030	2.7	1780	24.0
19...	1450	.59	2670	.5	AUG				
FEB					17...	0840	4.6	1350	22.5
18...	0900	.71	781	.0	SEP				
MAR					28...	0900	.44	1450	6.0
17...	0900	3.1	1660	.5					
06797500 - ELKHORN RIVER AT EWING, NEBR. (LAT 42 16 03 LONG 098 20 11)									
DEC , 1975					MAY , 1976				
11...	1030	24	211	.5	06...	1010	102	228	11.0
JAN , 1976					JUN				
23...	0945	34	204	.5	16...	1420	36	230	24.0
FEB					JUL				
11...	1550	78	198	.5	08...	1005	28	216	22.0
MAR					AUG				
24...	1540	262	206	12.0	19...	1200	15	210	27.0
APR					SEP				
14...	1400	93	217	20.0	07...	1515	4.8	179	26.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)
PLATTE RIVER BASIN									
06798500 - ELKHORN RIVER AT NELIGH, NEBR. (LAT 42 07 20 LONG 098 01 40)									
OCT , 1975					MAY , 1976				
09...	1050	69	277	11.0	03...	1325	288	270	13.5
DEC					JUN				
08...	1325	170	267	1.5	14...	1240	110	270	24.5
JAN , 1976					JUL				
05...	1340	127	280	.5	06...	1240	105	300	26.0
FEB					AUG				
09...	1155	156	254	.5	16...	1300	66	254	20.0
MAR					SEP				
01...	1335	406	222	.5	07...	1230	25	281	24.5
APR									
12...	1240	214	254	14.0					
06799000 - ELKHORN RIVER NEAR NORFOLK, NEBR. (LAT 42 00 20 LONG 097 28 40)									
OCT , 1975					JUN , 1976				
31...	1250	173	316	13.0	10...	1710	207	682	28.0
NOV					AUG				
11...	1515	230	331	7.5	11...	1610	65	346	22.5
JAN , 1976					SEP				
14...	1545	202	344	.5	23...	1005	129	323	17.0
FEB									
25...	1530	674	270	2.5					
06799500 - LOGAN CREEK NEAR UEHLING, NEBR. (LAT 41 42 50 LONG 096 31 15)									
OCT , 1975					MAR , 1976				
31...	1400	63	738	15.0	18...	1415	130	721	11.0
NOV					JUN				
13...	1500	63	743	1.5	11...	1415	57	348	28.0
JAN , 1976					AUG				
15...	1310	56	649	.5	11...	1400	15	670	25.0
FEB					SEP				
26...	1330	134	731	9.0	21...	1140	42	716	18.0
KANSAS RIVER BASIN									
06834000 - FRENCHMAN CREEK AT PALISADE, NEBR. (LAT 40 20 50 LONG 101 07 40)									
NOV , 1975					APR , 1976				
05...	1210	26	451	10.0	19...	1335	29	425	13.5
DEC					MAY				
01...	1515	20	445	.0	31...	1315	33	402	24.0
JAN , 1976					JUN				
14...	1315	28	422	.0	29...	1510	30	446	27.0
FEB					JUL				
23...	1230	33	442	4.5	15...	1100	298	368	23.5
MAR					AUG				
22...	1320	33	450	10.5	11...	0930	262	370	22.5
06879900 - BIG BLUE RIVER AT SURPRISE, NEBR. (LAT 41 06 05 LONG 097 18 35)									
NOV , 1975					APR , 1976				
19...	1355	.09	614	7.0	14...	1100	.24	459	18.0
JAN , 1976					JUL				
22...	1345	.15	670	.5	08...	1330	6.4	388	24.5
MAR									
03...	1345	.46	559	1.5					
06883000 - LITTLE BLUE RIVER NEAR DEWEESE, NEBR. (LAT 40 19 58 LONG 098 04 20)									
OCT , 1975					APR , 1976				
02...	0945	46	462	10.5	26...	1630	154	292	12.5
NOV					MAY				
11...	0850	58	471	6.0	24...	1710	118	407	15.5
DEC					JUN				
17...	1440	37	503	.0	21...	1625	38	464	27.0
JAN , 1976					JUL				
06...	0840	52	491	.0	19...	1645	20	428	32.5
FEB					AUG				
17...	1610	71	459	8.5	16...	1615	28	416	28.5
MAR					SEP				
16...	1600	70	480	11.0	27...	1630	320	142	15.5

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	TEMPER- ATURE (DEG C) (00010)	SUS- PENDE SEDI- MENT (MG/L) (80154)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN .500 MM (70345)
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PLATTE RIVER BASIN

06793000 - LOUP RIVER NEAR GENOA, NEBR. (LAT 41 25 05 LONG 097 43 25)

MAY , 1976									
25...	1645	405	16.5	1180	1290	71	87	97	100

06798500 - ELKHORN RIVER AT NELIGH, NEBR. (LAT 42 07 20 LONG 098 01 40)

OCT , 1975									
09...	1210	69	13.5	31	5.8	--	--	--	--
30...	1420	98	12.5	39	10	--	--	--	--

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

FEB , 1976									
25...	1515	674	2.5	644	1170	--	--	--	--
MAR									
17...	1545	543	10.5	625	916	--	--	--	--
APR									
09...	1000	346	12.0	306	286	--	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	TEMPER- ATURE (DEG C) (00010)	SUS- PENDE SEDI- MENT (MG/L) (80154)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN .004 MM (70338)
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KANSAS RIVER BASIN

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

MAR , 1976							
22...	1250	33	10.5	60	5.3	--	--
JUL							
15...	1100	298	23.5	1170	941	12	12
28...	1000	259	73.0	1100	769	5	6
AUG							
11...	0930	262	22.5	927	656	8	9
23...	1400	325	--	843	740	10	11
		SUS. SED. FALL DIAM. % FINER THAN .016 MM (70340)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN .500 MM (70345)	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM (70346)
DATE							2.00 MM (70347)

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

MAR , 1976							
22...	--	--	--	--	--	--	--
JUL							
15...	18	60	91	95	98	99	100
28...	12	57	89	95	100	--	--
AUG							
11...	11	66	89	95	100	--	--
23...	14	63	89	96	100	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

PARTICLE SIZE OF BED MATERIAL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	NUMBER OF SAM- PLING POINTS	BED MAT. FALL DIAM. % FINER THAN (00061)	BED MAT. FALL DIAM. % FINER THAN (00063)	BED MAT. FALL DIAM. % FINER THAN (80158)	BED MAT. FALL DIAM. % FINER THAN (80159)	BED MAT. FALL DIAM. % FINER THAN (80160)	BED MAT. FALL DIAM. % FINER THAN (80161)	BED MAT. FALL DIAM. % FINER THAN (80162)	BED MAT. FALL DIAM. % FINER THAN (80169)	BED MAT. FALL DIAM. % FINER THAN (80170)	BED MAT. FALL DIAM. % FINER THAN (80171)	BED MAT. FALL DIAM. % FINER THAN (80171)
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PLATTE RIVER BASIN

06798500 - ELKHORN RIVER AT NELIGH, NEBR. (LAT 42 07 20 LONG 098 01 40)

OCT , 1975														
09...	1210	69	25	0	1	40	84	95	100	--	--			
30...	1420	98	25	--	0	28	81	96	98	99	100			

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

FEB , 1976														
25...	1515	674	5	0	1	45	92	99	100	--	--			

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	NUMBER OF SAM- PLING POINTS	BED MAT. FALL DIAM. % FINER THAN (00061)	BED MAT. FALL DIAM. % FINER THAN (00063)	BED MAT. FALL DIAM. % FINER THAN (80159)	BED MAT. FALL DIAM. % FINER THAN (80160)	BED MAT. FALL DIAM. % FINER THAN (80161)	BED MAT. FALL DIAM. % FINER THAN (80162)	BED MAT. FALL DIAM. % FINER THAN (80169)	BED MAT. FALL DIAM. % FINER THAN (80170)	BED MAT. FALL DIAM. % FINER THAN (80171)	BED MAT. FALL DIAM. % FINER THAN (80172)
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KANSAS RIVER BASIN

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

MAR , 1976														
22...	1250	33	9	0	17	61	83	89	95	99	100			
JUL														
15...	1100	298	18	0	14	52	85	92	97	9	100			
AUG														
11...	0930	262	18	0	13	48	82	91	97	100	--			

GROUND-WATER LEVELS

355

ADAMS COUNTY

40340309824001. Local number 7N-10W-23AB.

LOCATION.--Lat 40°34'03", long 98°24'40", NW1/4NE1/4 sec.23, T.7 N., R.10 W., Hydrologic Unit 10270206, 0.5 mi (0.8 km) west of the west junction of Routes 281 and 6, in the south part of Hastings. Owner: Henry Fricke, Rt. 2, Hastings, Nebr.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused irrigation water-table well, diameter 8 in (0.20 m), depth 155 ft (47.2 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,927 ft (587 m). Measuring point: Top of casing 1.0 ft (0.30 m) above land-surface datum.

REMARKS.--Large amounts of ground water are pumped from municipal and industrial wells located east and northeast of the well and from irrigation wells in other directions. Water-quality records for the 1976 water year are published elsewhere in this report.

PERIOD OF RECORD.--August 1934 to October 1938; August 1948 to December 1950; and January 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 99.95 ft (30.46 m) below land-surface datum, Jan. 22, 1935; lowest, 122.47 ft (37.33 m) below land-surface datum, Aug. 20, 1975.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	116.60	116.43	116.18	115.70	115.53	115.28	115.07	115.11	118.16	120.91	120.55
10	116.92	116.62	116.16	115.94	115.75	115.42	115.18	115.15	115.12	119.55	121.20	119.94
15	116.90	116.44	116.16	115.90	115.64	115.35	115.13	115.05	115.20	120.48	121.64	119.62
20	116.85	116.45	116.15	115.83	115.52	115.40	115.10	115.16	115.64	120.62	122.18	119.40
25	116.83	116.35	116.04	115.76	115.53	115.23	115.12	114.96	115.41	119.86	122.34	119.10
END	116.70	116.46	116.10	115.75	115.49	115.26	115.03	114.97	118.54	120.65	122.11	118.96

WTR YEAR 1976 MAX 114.85 MAY 28, 1976 MIN 122.34 AUG. 25, 1976

BLAINE COUNTY

414958100061501. Local number 22N-24W-33CA.

LOCATION.--Lat 41°49'58", long 100°06'15", NE1/4SW1/4 sec.33, T.22 N., R.24 W., Hydrologic Unit 10210001, approximately 500 ft (152 m) west of junction of State Highways 91 and 2 north of Dunning. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1 in (0.03 m), depth 13 ft (3.9 m), screened 11 to 13 ft (3.3 to 3.9 m).

DATUM.--Altitude of land-surface datum is 2,618 ft (798 m). Measuring point: Top of casing 1.40 ft (0.43 m) above land-surface datum.

PERIOD OF RECORD.--December 1934 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.04 ft (0.32 m) below land-surface datum, Mar. 8, 1950; lowest, 6.97 ft (2.12 m) below land-surface datum, Aug. 8, 1951.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	5.19	JAN 12	4.00	MAR 15	3.19	MAY 18	3.65	JUN 30	4.86	AUG 10	4.95
NOV 13	4.72	FEB 2	3.44	APR 5	3.69	JUN 8	4.03	JUL 20	4.99	SEP 22	5.07
DEC 2	4.54	FEB 23	3.13	APR 27	3.23						

GROUND-WATER LEVELS

BOONE COUNTY

413323098074501. Local number 18N-7W-4CA.

LOCATION.--Lat 41°33'23", long 98°07'45", NE1/4SW1/4 sec.4, T.18 N., R.7 W., Hydrologic Unit 10210010, at junction of State Highways 52 and 56, approximately 1 mi (1.6 km) east of Cedar Rapids. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1 in (0.03 m), depth 22 ft (6.7 m), screened 20 to 22 ft (6.1 to 6.7 m).

DATUM.--Altitude of land-surface datum is 1,762 ft (537 m). Measuring point: Top of casing 2.90 ft (0.88 m) above land-surface datum.

PERIOD OF RECORD.--November 1936 to October 1942; April 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.57 ft (2.61 m) below land-surface datum, May 4, 1973; lowest, 15.17 ft (4.62 m) below land-surface datum, Oct. 26, 1940.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976		WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976		WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976		WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976		WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976		WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV 6	11.91	MAY 17	11.62								

FOX BUTTE COUNTY

420945102551501. Local number 25N-48W-4DDD.

LOCATION.--Lat 42°09'45", long 102°55'15", SE1/4SE1/4 sec.4, T.25 N., R.48 W., Hydrologic Unit 10150003, approximately 3.6 miles (5.8 km) south and 2.8 mi (4.5 km) east of Berea. Owner: U.S. Geological Survey.

AQUIFER.--Marland Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1.25 in (0.03 m), depth 204 ft (62.2 m), screened 190 to 193 ft (57.9 to 58.8 m).

DATUM.--Altitude of land-surface datum is 4,032.95 ft (1,229.24 m). Measuring point: Top of pipe 2.00 ft (0.61 m) above land-surface datum.

REMARKS.--Water levels in vicinity of well are affected by large withdrawals of ground water for irrigation use.

PERIOD OF RECORD.--April 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.14 ft (19.25 m) below land-surface datum, Jan. 25, 1950; lowest, 94.48 ft (28.80 m) below land-surface datum, Oct. 28, 1975.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976		WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976		WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976		WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976		WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976		WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 28	94.48										

BROWN COUNTY

423307099494501. Local number 30N-21W-19CC.

LOCATION.--Lat 42°33'07", long 99°49'45", SW1/4SW1/4 sec.19, T.30 N., R.21 W., Hydrologic Unit 10150004, 1.2 mi (1.9 km) east of junction of U.S. Highway 20 and Route 7 in Ainsworth. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 52 ft (15.8 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,511.44 ft (765.49 m). Measuring point: Top of casing 0.20 ft (0.06 m) above land-surface datum.

REMARKS.--Water levels in well are affected by pumpage of ground water for irrigation and seepage losses from nearby irrigation project.

PERIOD OF RECORD.--November 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.35 ft (10.47 m) below land-surface datum, Jan. 25, 1974; lowest, 40.96 ft (12.48 m) below land-surface datum, Sept. 7, 1965.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	36.43	36.45	36.42	36.53	36.55	36.61	36.73	36.92	37.24	37.76	37.84
10	36.55	36.41	36.40	36.44	36.53	36.55	36.64	36.74	36.98	37.36	37.74	37.91
15	36.51	36.39	.....	36.47	36.53	36.58	36.63	36.77	36.98	37.51	37.75	37.92H
20	36.46	36.41	36.44	36.48	36.56	36.58	36.67	36.83	36.98	37.60	37.69	37.91
25	36.46	36.39	36.42	36.48	36.54	36.60	36.68	36.87	37.04	37.73	37.67	37.86
END	36.43	.....	36.44	36.50	36.55	36.61	36.70	36.89	37.13	37.77	37.79	37.82

WTF YEAR 1976 MAX 36.37 NOV 6, 1975 MIN 37.93 SEP 15, 1976

H TAPE MEASUREMENT

GROUND-WATER LEVELS

357

BUFFALO COUNTY

404618098504401. Local number 9N-14W-1DC.

LOCATION.--Lat 40°46'18", long 98°50'44", SW1/4SE1/4 sec.1, T.9 N., R.14 W., Hydrologic Unit 10200102, 1.3 mi (2.0 km) north of the intersection of Route 30 and the North-South range-line road on the east side of Gibbon, then 0.5 mi (0.8 km) west on section-line road. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.35 m), depth 38 ft (11.6 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,060.43 ft (628.02 m). Measuring point: Top of casing 0.80 ft (0.24 m) above land-surface datum.

REMARKS.--Water levels in well are affected by pumpage from nearby irrigation wells.

PERIOD OF RECORD.--July 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.36 ft (4.68 m) below land-surface datum, June 11, 1952; lowest, 29.11 ft (8.87 m) below land-surface datum, Sept. 9, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	24.68	24.54	24.38	24.31	24.19	24.01	23.93	23.84	24.48	27.15	28.96
10	24.97	24.65	24.47	24.36	24.29	24.15	24.00	23.90	23.79	25.18	27.44	29.06
15	24.89	24.61	24.47	24.35	24.25	24.15	24.00	23.87	23.79	25.77	27.74	28.73
20	24.83	24.59	24.45	24.36	24.21	24.13	23.98	23.89	23.80	26.32	27.98	28.49
25	24.78	.....	24.42	24.32	24.20	24.08	23.95	23.86	23.93	26.89	28.29	28.28
EOB	24.71	.....	24.39	24.30	24.17	24.05	23.94	23.85	24.10	27.15	28.71	28.12

WTR YEAR 1976 MAX 23.77 JUN 14, 1976 MIN 29.11 SEP 9, 1976

BUFFALO COUNTY

404345098560001. Local number 9N-14W-19DD.

LOCATION.--Lat 40°43'45", long 98°56'00", SE1/4SE1/4 sec.19, T.9 N., R.14 W., Hydrologic Unit 10200102, 4.7 mi (7.6 km) west-southwest of Gibbon on U.S. Highway 30. Owner: Robert D. Lewis.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 24 in (0.61 m), depth 54 ft (16.5 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,102.16 ft (640.74 m). Measuring point: Hole in pump base 0.70 ft (0.21 m) above land-surface datum.

REMARKS.--Water levels in well are affected by pumping of well and of nearby wells for irrigation supplies.

PERIOD OF RECORD.--October 1930 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.55 ft (6.87 m) below land-surface datum, June 9, 1931; lowest, 35.20 ft (10.73 m) below land-surface datum, Aug. 30, 1974.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
CCT 29	33.83	DEC 30	33.01	FEB 25	32.51	APR 21	32.16	MAY 19	31.85	JUN 23	32.55
DEC 3	33.32	JAN 21	32.86	MAR 15	32.36						

BUTLER COUNTY

411420097173001. Local number 15N-1E-27DD.

LOCATION.--Lat 41°14'20", long 97°17'30", SE1/4SE1/4 sec.27, T.15 N., R.1 E., Hydrologic Unit 10270201, 2 mi (3.2 km) north of the northeast corner of Rising City. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 5 in (0.13 m), depth 210 ft (64.0 m), perforated 199 to 210 ft (60.7 to 64.0 m).

DATUM.--Altitude of land-surface datum is 1,618 ft (493 m). Measuring point: Top of platform, at land-surface datum.

REMARKS.--Well may be partially plugged, and water levels recorded may not be representative of water levels in principal aquifer in area.

PERIOD OF RECORD.--June 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 88.67 ft (27.03 m) below land-surface datum, June 15, 1975; lowest, 108.63 ft (33.11 m) below land-surface datum, July 23, 1961.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	89.72	89.44	.....	89.27	89.18	89.15	.....	.....	90.32	91.69	91.70
10	90.04	89.64	89.41	89.31	89.06	89.12	89.13	.....	89.05H	91.16	91.65	91.69
15	89.95	89.65	89.44	89.32	89.19	89.17	89.03	.....	.....	91.56	.....	91.50
20	89.89	89.55	89.40	89.29	89.14	89.10	.....	.....	.....	91.76	.....	91.40
25	89.84	89.59	.....	89.20	89.15	89.08	.....	.....	.....	91.83	.....	91.35
EOH	89.78	89.44	.....	89.20	89.13	89.12	.....	.....	.....	91.73	.....	91.25

WTR YEAR 1976 MAX 89.03 MAR 27, 1976 MIN 91.83 JUL 25, 1976

H TAPE MEASUREMENT

CHASE COUNTY

403220101384001. Local number 7N-38W-28CC.

LOCATION.--Lat 40°32'20", long 101°38'40", SW1/4SW1/4 sec.28, T.7 N., R.38 W., Hydrologic Unit 10250005, about 0.5 mi (0.8 km) north of Imperial. Owner: Roy Hust.

AQUIFER.--Ogallala Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused observation water-table well, diameter 18 in (0.45 m), depth 143 ft (43.6 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 3,284.6 ft (1,001.1 m). Measuring point: Top of casing 0.30 ft (0.09 m) above land-surface datum.

REMARKS.--Recording gage was installed on this well from December 1948 to December 1963. Water levels in well are affected by irrigation pumpage in area.

PERIOD OF RECORD.--December 1944; December 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 72.82 ft (22.20 m) below land-surface datum, June 29, 1964; lowest measured, 90.70 ft (27.65 m) below land-surface datum, Oct. 21, 1975.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

GROUND-WATER LEVELS

359

CHASE COUNTY

403235101395501. Local number 7N-38W-29CBB.

LOCATION.--Lat 40°32'35", long 101°39'55", NW1/4NW1/4SW1/4 sec.29, T.2 N., R.38 W., Hydrologic Unit 10250005, 0.5 mi (0.8 km) north and 1 mi (1.6 km) west of Imperial on U.S. Highway 6, then 0.5 mi (0.8 km) north on gravel road. Owner: U.S. Geological Survey.

AQUIFER.--Cgallala Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 5.50 in (0.14 m), depth 230 ft (70.1 m), perforated 190 to 230 ft (57.9 to 70.1 m).

DATUM.--Altitude of land-surface datum is 3,290.30 ft (1,002.88 m). Measuring point: Top of casing 0.50 ft (0.15 m) above land-surface datum.

REMARKS.--Water levels in well are affected by irrigation pumpage in area.

PERIOD OF RECORD.--June 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 55.87 ft (17.03 m) below land-surface datum, July 4, 1964; lowest, 85.17 ft (25.96 m) below land-surface datum, Sept. 4, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	73.49	72.72	71.62	71.24	70.79	70.17H	70.21	70.27	71.15	81.25	84.92
10	74.58	73.35	72.28	.....	71.25	70.59	70.27	70.76	70.49	75.65	81.93	84.79
15	74.42	73.07	72.15H	71.50H	71.02	70.54	69.99	70.21	70.45	77.19	82.12	84.35
20	74.09	.....	72.15	71.59	70.99	70.50	69.86	71.08	71.19	78.68	83.20	82.94
25	74.00	.....	71.92	71.45	70.86	70.37	69.85	70.17	70.69	79.56	83.63	81.75
ECM	73.68	.....	71.81	71.38	70.74	70.31	69.87	70.15	72.00	80.47	84.43	80.96

WTR YEAR 1976 MAX 69.70 APR 18, 1976 MIN 85.17 SEP 4, 1976

H TAPE MEASUREMENT

CHERRY COUNTY

423205100321501. Local number 30N-28W-36AAA.

LOCATION.--Lat 42°32'05", long 100°32'15", NE1/4NE1/4NE1/4 sec.36, T.30 N., R.28 W., Hydrologic Unit 10150004, 8 mi (12.9 km) south of the intersection of U.S. Highway 83 and State Highway 483, south of Valentine. Owner: U.S. Geological Survey.

AQUIFER.--Sandhills deposits of Pleistocene age.

WELL CHARACTERISTICS.--Bored observation water-table well, diameter 1.25 in (0.03 m), depth 12 ft (3.7 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,897.26 ft (883.08 m). Measuring point: Top of casing 3.00 ft (0.91 m) above land-surface datum.

REMARKS.--Water levels affected by evapotranspiration.

PERIOD OF RECORD.--October 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +0.20 ft (+0.10 m) below land-surface datum, Jan. 11, 1936; lowest, 1.80 ft (0.55 m) below land-surface datum, Sept. 22, 1970.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	1.29	SEP 14	2.20G								

G MEASUREMENT MADE BY ANOTHER AGENCY

CUSTER COUNTY

413910099285001. Local number 19N-19W-2BB.

LOCATION.--Lat 41°39'10", long 99°28'50", NW1/4NW1/4 sec.2, T.19 N., R.19 W., Hydrologic Unit 10210003, 1 mi (1.6 km) north and 5.8 mi (9.3 km) west of Sargent. Owner: Ralph Slagel.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 18 in (0.45 m), depth 69 ft (21.0 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,361.95 ft (719.92 m). Measuring point: Hole in turbine base at land-surface datum.

PERIOD OF RECORD.--August 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.80 ft (2.68 m) below land-surface datum, Oct. 8, 1964; lowest, 19.41 ft (5.92 m) below land-surface datum, Sept. 1, 1954.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	11.00G	MAR 1	11.30G	JUN 12	11.70G	AUG 4	10.50G				

G MEASUREMENT MADE BY ANOTHER AGENCY

DAWES COUNTY

424100103243501. Local number 31N-52W-3DC.

LOCATION.--Lat 42°41'00", long 103°24'35", SW1/4SE1/4 sec.3, T.31 N., R.52 W., Hydrologic Unit 10140201, behind house at 312 Annin Street in Crawford. Owner: T. P. Moody.

AQUIFER.--Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 39 ft (11.9 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 3,685 ft (1,123 m). Measuring point: Edge of iron plate 1.07 ft (0.33 m) above land-surface datum.

PERIOD OF RECORD.--August 1934 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.87 ft (4.84 m) below land-surface datum, May 30, 1948; lowest, 22.28 ft (6.79 m) below land-surface datum, Oct. 31, 1956.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	19.66	JAN 20	19.48	MAR 22	19.04	APR 20	20.86	JUN 21	18.35	AUG 20	19.52
NOV 20	19.00	FEB 20	19.05	APR 20	19.00	MAY 20	18.84	JUL 20	18.85	SEP 20	19.99
DEC 22	19.68										

DAWSON COUNTY

40525C099445501. Local number 10N-21W-18DDD.

LOCATION.--Lat 40°52'50", long 99°44'55", SE1/4SE1/4 sec.18, T.10 N., R.21 W., Hydrologic Unit 10200101, 3.5 mi (5.6 km) north of the intersection of Route 21 and U.S. Highway 30 in Lexington. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 120 ft (36.6 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,420.58 ft (737.79 m). Measuring point: Top of casing 0.50 ft (0.15 m) above land-surface datum.

REMARKS.--Water levels in well affected by pumpage from nearby irrigation wells and by seepage from irrigation canals.

PERIOD OF RECORD.--July 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.74 ft (2.97 m) below land-surface datum, Oct. 24, 1965; lowest, 17.90 ft (5.46 m) below land-surface datum, Aug. 20, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976												
LOWEST WATER LEVEL FOR THE DAY												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	16.61	16.86	16.84	16.62	16.48	16.54	16.83	16.18	16.84	17.46	17.19
10	16.04	16.68	16.82	16.89	16.59	16.44	16.58	16.84	16.19	17.07	17.49	17.21
15	16.20	16.69	16.86	16.92	16.53	16.46	16.58	16.69	16.29	17.37	17.87	17.06
20	16.31	16.76	16.88	16.91	16.47	16.48	16.64	16.57	16.43	17.31	17.90	17.31
25	16.42	16.75	16.85	16.80	16.47	16.49	16.71	16.34	16.54	17.51	17.43	17.30
EOM	16.57	16.82	16.87	16.75	16.45	16.54	16.74	16.16	16.87	17.15	17.38	17.07

WTR YEAR 1976 MAX 16.14 JUN 1, 1976 MIN 17.90 AUG 20, 1976

GROUND-WATER LEVELS

DAWSON COUNTY

404850099503501. Local number 10N-22W-29AA.

LOCATION.--lat 40°48'50", long 99°50'35", NE1/4NE1/4 sec.29, T.10 N., R.22 W., Hydrologic Unit 10200101, 2 mi (3.2 km) east of Dorr. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1 in (0.03 m), depth 12 ft (3.7 m), screened 10 to 12 ft (3.0 to 3.7 m).

DATUM.--Altitude of land-surface datum is 2,435.14 ft (742.23 m). Measuring point: Top of casing 1.80 ft (0.55 m) above land-surface datum.

REMARKS.--Water levels in well affected by pumping from nearby wells during irrigation season.

PERIOD OF RECORD.--October 1931 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.1 ft (1.55 m) below land-surface datum, Oct. 13, 1965; lowest, 17.69 ft (5.39 m) below land-surface datum, Feb. 8, 1946.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 17	8.45										

DUNDY COUNTY

400155101521302. Local number 1N-40W-29BB2.

LOCATION.--lat 40°01'55", long 101°52'13", NW1/4NW1/4 sec.29, T.1 N., R.40 W., Hydrologic Unit 10250002, 3.5 mi (5.6 km) east of Haigler on U.S. Highway 34 and 0.5 mi (0.8 km) north. Well is within 0.5 mi (0.8 km) of Republican River. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 48.8 ft (14.87 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 3,205 ft (977 m). Measuring point: South side of casing 1.6 ft (0.48 m) above land-surface datum.

REMARKS.--Replacement for well 400155101521301, local number 1N-40W-29BB1 with period of record from May 1946 to June 1975. Water levels in well are affected by pumping from nearby irrigation wells, evapotranspiration, and changes in stage of Republican River.

PERIOD OF RECORD.--October 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.45 ft (5.01 m) below land-surface datum, June 25, 1975; lowest, 20.97 ft (6.39 m) below land-surface datum, Sept. 12, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976												
LOWEST WATER LEVEL FOR THE DAY												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	18.47	17.95	17.56	17.26	17.06	16.86	17.05	17.56	.....	19.13	20.81
10	19.44	18.37	17.88	17.51	17.23	17.01	17.20	17.44	17.39	17.96	19.41	20.79
15	19.16	18.27	17.81	17.45	17.18	16.98	17.47	17.61	17.76	18.35	19.61	20.89
20	18.92	18.18	17.75	17.41	17.14	16.95	17.32	17.59	17.70	18.54	19.88	20.14
25	18.76	18.10	17.69	17.35	17.11	16.93	17.20	17.50	17.60	18.73	20.00	19.88
EOB	18.58	18.03	17.61	17.31	17.08	16.90	17.12	17.56	17.56	18.84	20.48	19.80

WTR YEAR 1976 MAX 16.84 APR 6, 1976 MIN 20.97 SEP 12, 1976

GROUND-WATER LEVELS

363

FILLMORE COUNTY

402450097434001. Local number 5N-4W-12BC.

LOCATION.--Lat 40°24'50", long 97°43'40", SW1/4NW1/4 sec.12, T.5 N., R.4 W., Hydrologic Unit 10270206, 3 blocks west and 1.5 blocks north of fire station on principal north-south street in Shickley. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 91.15 ft (27.78 m), perforated 80 to 100 ft (24.4 to 30.5 m).

DATUM.--Altitude of land-surface datum is 1,636 ft (499 m). Measuring point: Top of casing at land-surface datum.

REMARKS.--Water levels in well affected by pumping from nearby municipal and irrigation wells. Well originally 100 ft (30.5 m) deep, but has filled in and currently is 91.15 ft (27.78 m) deep. Water-quality records for the 1976 water year are published elsewhere in this report.

PERIOD OF RECORD.--October 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 73.13 ft (22.29 m) below land-surface datum, June 15, 1957; lowest, dry, 91.15 ft (27.78 m) below land-surface datum, Sept. 2, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	88.76	88.56	88.24	87.85	87.65	87.40	86.64	86.35	86.86	90.44	.....
10	88.16	88.85	88.34	88.25	87.82	87.51	87.36	86.45	86.26	88.97	90.62	.....
15	88.16	88.71	88.53	88.05	87.72	87.49	87.27	86.40	86.35	89.47	90.90	.....
20	88.15	88.70	88.46	87.98	87.65	87.49	87.25	86.40	86.39	89.81	91.11	.....
25	88.40	88.59	88.36	87.99	87.66	87.42	87.20	86.37	86.54	89.99	91.13	.....
ECM	88.58	88.61	88.31	87.87	87.60	87.46	86.95	86.32	86.64	90.26	91.14	.....

WTR YEAR 1976 MAX 86.25 JUN 9, 1976 MIN 91.15 (DRY) SEP 2, 1976

FILLMORE COUNTY

403800097300701. Local number 8N-2W-26AD.

LOCATION.--Lat 40°38'00", long 97°30'07", SE1/4NE1/4 sec.26, T.8 N., R.2 W., Hydrologic Unit 10270203, 2.5 mi (4.0 km) west on Route 6 from the principal street of Exeter, then 0.4 mi (0.6 km) south. Owner: U.S. Geological Survey.

AQUIFER.--Loess of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 40 ft (12.2 m), perforated 25 to 40 ft (7.6 to 12.2 m).

DATUM.--Altitude of land-surface datum is 1,610 ft (491 m). Measuring point: Top of casing at land-surface datum.

REMARKS.--Perched aquifer, water levels affected by infiltration and deep percolation of applied irrigation water pumped from deeper aquifer. Water-quality records for the 1976 water year are published elsewhere in this report.

PERIOD OF RECORD.--October 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.46 ft (1.66 m) below land-surface datum, Feb. 20, 1974; lowest, 24.16 ft (7.36 m) below land-surface datum, July 10, 1958.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
C5	.....	12.88	12.79	13.14	13.63	13.58	12.40	11.32	11.02	11.89	11.92	12.53
10	12.69	12.96	12.67	.....	13.65	13.30	12.30	11.30	10.95	11.96	11.96	12.71
15	12.85	12.81	13.00	13.29	13.55	13.32	12.19	11.36	11.26	12.17	12.09	12.82
20	12.70	12.93	13.11	13.47	13.57	13.37	11.76	11.37	11.42	11.65	12.16	12.90
25	12.95	12.96	12.98	13.47	13.41	13.29	11.66	10.77	11.57	11.67	12.29	12.89
ECM	12.75	12.97	13.10	13.50	13.36	13.08	11.21	10.85	11.80	11.84	12.42	12.79

WTR YEAR 1976 MAX 10.69 MAY 28, 1976 MIN 13.81 FEB 21, 1976

GROUND-WATER LEVELS

365

GOSPER COUNTY

403626099451401. Local number 7N-21W-6BC.

LOCATION.--Lat 40°36'26", long 99°45'14", SW1/4NW1/4 sec.2, T.7 N., R.21 W., Hydrologic Unit 10200101, 1 mi (1.6 km) west and 2 mi (3.2 km) north of Smithfield. Owner: Andy Larson Estate.

AQUIFER.--Ogallala Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in (0.10 m), depth 132 ft (40.2 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,466.95 ft (751.93 m). Measuring point: Top of casing 0.40 ft (0.12 m) above land-surface datum.

REMARKS.--Water levels in well affected by pumping from nearby irrigation wells and by infiltration and deep percolation from nearby irrigation canal.

PERIOD OF RECORD.--September 1934 to July 1940; January 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.70 ft (17.28 m) below land-surface datum, Oct. 17, 1975; lowest, 117.80 ft (39.91 m) below land-surface datum, Sept. 26, 1935.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
CCT 17	56.70										

G MEASUREMENT MADE BY ANOTHER AGENCY

HAIL COUNTY

405315098304301. Local number 11N-11W-25CC.

LOCATION.--Lat 40°53'15", long 98°30'43", SW1/4SW1/4 sec.25, T.11 N., R.11 W., Hydrologic Unit 10200103, 1.0 mi (1.6 km) north and 2.0 mi (3.2 km) west of Alda. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 37 ft (11.3 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,922.4 ft (585.9 m). Measuring point: Top of casing 1.60 ft (0.49 m) above land-surface datum.

REMARKS.--Water levels in well affected by pumping from nearby wells during irrigation season.

PERIOD OF RECORD.--October 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.18 ft (3.71 m) below land-surface datum, June 25, 1949; lowest, 23.99 ft (7.31 m) below land-surface datum, Aug. 15, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	21.03	20.98	21.06	21.07	21.05	21.04	21.03	20.99	21.16	22.28	23.13
10	20.92	21.02	20.99	21.07	21.06	21.05	21.04	21.03	20.99	21.23	22.44	23.22
15	20.93	21.02	21.01	21.07	21.06	21.05	21.03	21.02	20.99	21.39	22.51	23.27
20	20.95	21.02	21.03	21.08	21.05	21.05	21.02	21.00	21.00	21.58	22.76	23.29
25	20.98	21.01	21.04	21.08	21.05	21.04	21.01	21.00	21.03	21.83	22.85	23.28
END	21.00	21.00	21.05	21.08	21.05	21.03	21.02	20.99	21.10	22.10	23.00	23.28

WTR YEAR 1976 MAX 20.99 JUN 31, 1976 MIN 23.29 SEP 20, 1976

GROUND-WATER LEVELS

HAMILTON COUNTY

404825097583301. Local number 10N-6W-26BC.

LOCATION.--Lat 40°48'25", long 97°58'33", SW1/4NW1/4 sec.26, T.10 N., R.6 W., Hydrologic Unit 10270203, 4 mi (6.4 km) south of junction of Route 14 and U.S. Highway 34 in Aurora, then 1.0 mi (1.6 km) east and 0.3 mi (0.48 km) south. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 131 ft (39.9 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,790.5 ft (545.7 m). Measuring point: Top of casing 1.50 ft (0.46 m) above land-surface datum. Water-quality records for the 1976 water year are published elsewhere in this report.

REMARKS.--Water levels affected by pumping at nearby irrigation wells.

PERIOD OF RECORD.--March 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 84.90 ft (25.88 m) below land-surface datum, June 20, 1956; lowest, 106.97 ft (32.60 m) below land-surface datum, Sept. 8, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	100.69	99.90	99.29	.....	98.37	98.03	97.57	97.46	99.50	104.25	.....
10	.....	100.53	99.80	99.20	98.68H	98.31	97.98	97.59	97.35	100.61	104.81	.....
15	101.45	100.40	.....	99.13	98.63	98.27	97.92	97.55	97.30	101.51	105.27	.....
20	101.23	100.25	99.56	99.05	98.56	98.18	97.88	97.55	97.35	102.40	105.78	.....
25	101.05	100.15	99.46	98.95	98.49	98.13	97.84	97.54	97.60	103.15	.....	105.75
EOM	100.83	100.00	99.37	98.86	98.43	98.08	97.80	97.47	98.51	103.85	.....	105.44

WTR YEAR 1976 MAX 97.30 JUN 15, 1976 MIN 106.97 SEP 28, 1976

H TAPE MEASUREMENT

HAMILTON COUNTY

405514097573901. Local number 11N-6W-13CB.

LOCATION.--Lat 40°55'14", long 97°57'39", NW1/4SW1/4 sec.13, T.11 N., R.6 W., Hydrologic Unit 10270201, 2 mi (3.2 km) east and 3.5 mi (5.6 km) north of Aurora. Owner: O. S. Swedberg.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 24 in (0.61 m), depth 194 ft (59.1 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,812.2 ft (552.4 m). Measuring point: Hole in south side turbine base at land-surface datum.

REMARKS.--Water levels affected by pumping during irrigation season.

PERIOD OF RECORD.--September 1934 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 90.04 ft (27.44 m) below land-surface datum, Sept. 29, 1934; lowest, 114.63 ft (34.94 m) below land-surface datum, Nov. 12, 1975.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 12	114.63	MAY 3	111.52								

GROUND-WATER LEVELS

367

HARLAN COUNTY

400920099215501. Local number 2N-18W-9BCC.

LOCATION.--lat 40°09'20", long 99°21'55", SW1/4SW1/4NW1/4 sec.9, T.2 N., R.18 W., Hydrologic Unit 10250009, 3.5 mi (5.6 km) north of the junction of Route 3 and U.S. Highway 183 in Alma. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 5.50 in (0.14 m), depth 170 ft (51.8 m), perforated from 140 to 170 ft (42.7 to 51.8 m).

DATUM.--Altitude of land-surface datum is 2,120 ft (646 m). Measuring point: Top of casing 0.50 ft (0.15 m) above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells during irrigation season.

PERIOD OF RECORD.--June 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 84.39 ft (25.72 m) below land-surface datum, May 11, 1966; lowest, 109.96 ft (33.52 m) below land-surface datum, Sept. 15, 1974.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	90.43	88.59	88.00	87.93	89.16	87.58	87.80	87.71	100.12	101.85	101.73
10	89.10	89.05	88.24	88.02	88.50	88.95	87.58	88.45	90.71	100.91	101.38	96.20
15	89.13	90.46	88.41	87.96	87.76	87.87	87.53	87.83	88.20	101.29	102.08	92.77
20	88.86	89.63	88.28	88.02	88.00	87.80	87.54	88.26	90.58	101.53	102.58	91.78
25	88.82	88.56	88.11	87.93	91.44	87.64	87.60	87.49	96.61	101.58	102.58	91.45
EOH	88.81	88.63	88.07	88.39	91.17	87.70	87.48	87.46	98.42	101.97	102.60	91.75

WTR YEAR 1976 MAX 87.36 MAY 4, 1976 MIN 102.68 AUG 8, 1976

H TAPE MEASUREMENT

HARLAN COUNTY

400620099274001. Local number 2N-19W-28DD.

LOCATION.--lat 40°06'20", long 99°27'40", SE1/4SE1/4 sec.28, T.2 N., R.19 W., Hydrologic Unit 10250009, 1.8 mi (2.9 km) south of Orleans. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1 in (0.03 m), depth 22 ft (6.7 m), screened 20 to 22 ft (6.1 to 6.7 m).

DATUM.--Altitude of land-surface datum is 1,960 ft (597 m). Measuring point: Top of casing 1.20 ft (0.37 m) above land-surface datum.

PERIOD OF RECORD.--May 1940 to October 1941; March 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.9 ft (1.80 m) below land-surface datum, Feb. 15, 1966; lowest, 12.14 ft (3.70 m) below land-surface datum, Sep. 13, 1955.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 1	9.20	G	AUG 3	10.50	G						

G MEASUREMENT MADE BY ANOTHER AGENCY

GROUND-WATER LEVELS

369

HOIT COUNTY

423148C98300601. Local number 30N-10W-32DAA.

LOCATION.--Lat 42°31'48", long 98°30'06", NE1/4NE1/4SE1/4 sec.32, T.30 N., R.10 W., Hydrologic Unit 10150007, 2 mi (3.2 km) east on paved road from O'Neill, then 2 mi (3.2 km) north, 4 mi (6.4 km) east, 2 mi (3.2 km) north, 2 mi (3.2 km) east, and 0.5 mi (0.8 km) north. Owner: William J. Murphy.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 85 ft (25.9 m), perforated 25.5 to 85 ft (7.8 to 25.9 m).

DATUM.--Altitude of land-surface datum is 1,952 ft (595 m). Measuring point: Top of casing 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Water levels in this well affected by withdrawals by nearby irrigation wells completed in this aquifer and withdrawals from a deeper aquifer which has resulted in water movement from the upper aquifer to the deeper aquifer.

PERIOD OF RECORD.--October 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 35.41 ft (10.79 m) below land-surface datum, Oct. 21, 1966; lowest, 48.66 ft (14.83 m) below land-surface datum, Sept. 30, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	46.97	47.11	47.14	47.17	47.18	47.03	46.83	46.86	47.20	47.84	48.41
10	46.84	47.00	47.11	47.16	47.18	47.17	46.96	46.83	46.86	47.26	47.94	48.51
15	46.87	47.03	47.12	47.17	47.18	47.18	46.90	46.84	46.87	47.35	48.03	48.58
20	46.88	47.06	47.13	47.17	47.17	47.16	46.86	46.85	46.95	47.47	48.12	48.61
25	46.91	47.08	47.14	47.17	47.18	47.14	46.85	46.86	47.06	47.61	48.19	48.65
EOM	46.95	47.08	47.15	47.17	47.18	47.11	46.83	46.85	47.13	47.73	48.32	48.66H

WTF YEAR 1976 MAX 46.79 OCT 1, 1975 MIN 48.66 SEP 30, 1976

HOIT COUNTY

42373C098560001. Local number 31N-14W-27DDD.

LOCATION.--Lat 42°37'30", long 98°56'00", SE1/4SE1/4SE1/4 sec.27, T.31 N., R.14 W., Hydrologic Unit 10150007, 6 mi (9.7 km) north from Atkinson on Route 11, then 2 mi (3.2 km) east. Owner: Elmer Goldfuss.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 72 ft (21.9 m), perforated 32 to 72 ft (9.7 to 21.9 m).

DATUM.--Altitude of land-surface datum is 2,080 ft (634 m). Measuring point: Top of casing at land-surface datum.

REMARKS.--Water levels in well affected by pumping of nearby wells during irrigation season.

PERIOD OF RECORD.--July 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 30.91 ft (9.42 m) below land-surface datum, July 7, 1966; lowest, 43.30 ft (13.20 m) below land-surface datum, Sept. 10, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	40.49	40.09	39.78	39.53	39.15	38.81	38.60	38.80	39.77	.....	43.21
10	40.93	40.42	40.03	39.73	39.48	39.10	38.76	38.61	38.72	40.14	.....	43.30
15	40.83	40.34	39.98	39.68	39.39	39.06	38.71	38.81	38.72	40.62	.....	43.28
20	40.73	40.26	.....	39.65	39.32	38.98	38.69	38.91	39.02	41.13	.....	43.17
25	40.65	40.21	.....	39.60	39.25	38.92	38.66	38.89	39.28	41.57	.....	43.07
EOM	40.57	40.14	.....	39.56	39.20	38.87	38.64	38.83	39.48	41.81	43.00	.....

WTF YEAR 1976 MAX 38.59 MAY 4, 1976 MIN 43.30 SEP 10, 1976

GROUND-WATER LEVELS

KEARNEY COUNTY

403053098581501. Local number 6N-15W-1CB.

LOCATION.--Lat 40°30'53", long 98°58'15", NW1/4SW1/4 sec.1, T.6 N., R.15 W., Hydrologic Unit 10270206, 1 mi (1.6 km) west and 1 mi (1.6 km) north of intersection of U.S. Highway 6 and State Highway 10 in Minden.
Owner: Roy Youngson.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 18 in (0.45 m), depth 176 ft (54.6 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,171.80 ft (661.96 m). Measuring point: Hole in turbine base 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Water levels in well affected by seepage losses from nearby canals and by pumping during irrigation season.

PERIOD OF RECORD.--June 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.50 ft (13.87 m) below land-surface datum, Oct. 21, 1975; lowest, 71.36 ft (21.75 m) below land-surface datum, June 29, 1948.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976	
DATE	WATER LEVEL
OCT 21	45.50

KEARNEY COUNTY

402625098594501. Local number 6N-15W-34DC.

LOCATION.--Lat 40°26'25", long 98°59'45", SW1/4SE1/4 sec.34, T.6 N., R.15 W., Hydrologic Unit 10270206, 4.5 mi (7.2 km) south and 2.5 mi (4 km) west of the junction of Route 10 and U.S. Highway 34 near Minden.
Owner: Conservation and Survey Division, University of Nebraska-Lincoln.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 210 ft (64.0 m), cased with steel, perforated 190 to 210 ft (57.9 to 64.0 m).

DATUM.--Altitude of land-surface datum is 2,210 ft (674 m). Measuring point: Top of casing 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Replacement for 402615099000001, local number 5N-15W-3BA1, period of record August 1947 to September 1967. Water levels in well affected by seepage losses from nearby canals and by pumping of nearby wells during irrigation season.

PERIOD OF RECORD.--October 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 79.29 ft (24.17 m) below land-surface datum, May 29, 1976; lowest, 116.56 ft (35.53 m) below land-surface datum, Aug. 8, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	82.62	81.82	81.15	80.87	80.45	79.99	79.60	79.98	104.27	107.46	103.34
10	83.25	82.36	81.37	80.89	80.58	80.11	79.78	79.98	81.86	110.78	111.18	90.77
15	83.10	82.34	81.63	80.94	80.39	80.23	79.73	79.69	80.75	111.46	111.39	88.53
20	82.70	81.91	81.55	81.06	80.30	80.02	79.97	80.09	86.90	111.37	113.72	87.58
25	82.89	81.95	81.13	80.80	80.40	79.94	80.01	79.66	81.03	101.77	115.42	86.90
EOM	82.34	81.92	80.91	80.69	80.19	80.12	79.93	79.49	84.04	107.68	110.12	86.40

WTR YEAR 1976 MAX 79.29 MAY 5, 1976 MIN 116.56 AUG 8, 1976

LANCASTER COUNTY

403833096385501. Local number 8N-7E-20DDA.

LOCATION.--Lat 40°38'33", long 96°38'55", NE1/4SE1/4 sec.20, T.8 N., R.7 E., Hydrologic Unit 10200203, 0.5 mi (0.8 km) east and 1.1 mi (1.8 km) south of Roca. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 33 ft (10.1 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,243 ft (379 m). Measuring point: Top of casing 1.00 ft (0.30 m) above land-surface datum.

PERIOD OF RECORD.--June 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.16 ft (0.05 m) below land-surface datum, Mar. 27, 1960; lowest, 11.55 ft (3.52 m) below land-surface datum, Mar. 20, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 14	4.40										

LANCASTER COUNTY

404730096440401. Local number 10N-6E-34CA.

LOCATION.--Lat 40°47'30", long 96°44'04", NE1/4SW1/4 sec.34, T.10 N., R.6 E., Hydrologic Unit 10200203, 0.3 mi (0.5 km) west of intersection of Folsom and South Streets in Lincoln. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 36 ft (11.0 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,149 ft (350 m). Measuring point: Top of casing 2.00 ft (0.61 m) above land-surface datum.

PERIOD OF RECORD.--December 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.20 ft (2.80 m) below land-surface datum, Oct. 15, 1973; lowest, 18.53 ft (5.65 m) below land-surface datum, Feb. 20, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	16.10	SEP 30	16.70								

LANCASTER COUNTY

404706096413001. Local number 10N-6E-36CDD.

LOCATION.--Lat 40°47'06", long 96°41'30", SE1/4SE1/4SW1/4 sec.36, T.10 N., R.6 E., Hydrologic Unit 10200203, in Irvingdale Park on the north side of Van Dorn Street between 19th and 20th Streets in Lincoln. Owner: City of Lincoln.

AQUIFER.--Dakota Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in (0.41 m), depth 170 ft (51.8 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,200 ft (366 m). Measuring point: Top of casing 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Water levels in well have had a rising trend for the period of record due partly to recovery from long-term withdrawals from the aquifer for the Lincoln water supply prior to 1950 and partly to recharge from precipitation. Water quality records for the 1976 water year are published elsewhere in this report.

PERIOD OF RECORD.--August 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 52.70 ft (16.06 m) below land-surface datum, June 13, 1976; lowest, 71.19 ft (21.70 m) below land-surface datum, Sept. 5, 1956.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976												
LOWEST WATER LEVEL FOR THE DAY												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	53.53	.....	53.17H	53.35	53.45	53.15	53.07	53.09	53.33	53.38	53.51
10	53.47	53.60	.....	53.31	53.34	53.17	53.05	53.01	52.85	53.15	53.35	53.59
15	53.56	53.45	.....	53.32	53.16	53.28	52.99	52.95	53.05	53.33	53.45	53.59
20	53.35	.....	53.57	53.39	53.05	53.28	53.12	52.98	53.21	53.25	53.46	53.55
25	53.65	.....	53.25	53.29	53.23	53.06	53.28	52.97	53.17	53.28	53.47	53.44
END	53.47	.....	53.30	53.18	53.16	53.25	53.19	52.90	53.30	53.37	53.45	53.35

WTR YEAR 1976 MAX 52.70 JUN 13, 1976 MIN 53.75 OCT 29, 1975

H TAPE MEASUREMENT

GROUND-WATER LEVELS

373

LANCASTER COUNTY

405405096455501. Local number 11N-6E-20EC.

LOCATION.--Lat 40°54'05", long 96°45'55", SW1/4SE1/4 sec.20, T.11 N., R.6 E., Hydrologic Unit 10200203, 1 mi (1.6 km) north and 1.6 (2.6 km) east of junction of State Highways 2 and 71 northwest of Lincoln. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 30 ft (9.1 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,189 ft (362 m). Measuring point: Top of casing 3.00 ft (0.91 m) above land-surface datum.

PERIOD OF RECORD.--December 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.69 ft (3.56 m) below land-surface datum, Oct. 8, 1963; lowest, 17.53 ft (5.34 m) below land-surface datum, Jan. 5, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 20	16.01										

MERRICK COUNTY

410143098090301. Local number 12N-7W-7AA.

LOCATION.--Lat 41°01'43", long 98°09'03", NE1/4NE1/4 sec.7, T.12 N., R.7 W., Hydrologic Unit 10200103, 0.5 mi (0.8 km) north and 0.5 mi (0.8 km) west of Chapman. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1.25 in (0.03 m), depth 13 ft (4.0 m), screened 11 to 13 ft (3.4 to 4.0 m).

DATUM.--Altitude of land-surface datum is 1,762.16 ft (537.11 m). Measuring point: Top of casing 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Water levels in well affected by pumping of nearby wells during irrigation season and by evapotranspiration.

PERIOD OF RECORD.--December 1945 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.84 ft (1.17 m) below land-surface datum, Feb 14, 1974; lowest, 10.26 ft (3.13 m) below land-surface datum, Nov. 5, 1956.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 29	9.67	JAN 5	9.65	FEB 24	9.65	APR 20	9.08	MAY 17	8.84	JUN 22	8.15
DEC 4	9.68	JAN 22	9.69	MAR 17	9.59						

PHELPS COUNTY

403123099261501. Local number 6N-19W-2AA.

LOCATION.--Lat 40°31'23", long 99°26'15", NE1/4NE1/4 sec.2, T.6 N., R.19 W., Hydrologic Unit 10200101, 10 mi (16.1 km) east of Bertrand. Owner: Central Nebraska Public Power and Irrigation District.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1 in (0.03 m), depth 151 ft (46.0 m), screened 149 to 151 ft (45.4 to 46.0 m).

DATUM.--Altitude of land-surface datum is 2,360.81 ft (719.57 m). Measuring point: Top of casing 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Water levels in well affected by seepage losses from nearby irrigation canal.

PERIOD OF RECORD.--March 1945 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 48.80 ft (14.87 m) below land-surface datum, Oct. 21, 1975; lowest, 123.70 ft (37.70 m) below land-surface datum, Mar. 9, 1945.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976									
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	48.80	JAN 12	49.42	MAR 16	49.82	MAY 5	50.46	JUL 16	65.54
NOV 6	49.08							SEP 7	54.00

PLATTE COUNTY

412955097192001. Local number 18N-1E-28CD.

LOCATION.--Lat 41°29'55", long 97°19'20", SE1/4SW1/4 sec.28, T.18 N., R.1 E., Hydrologic Unit 10200201, 3 mi (4.8 km) south and 8.5 mi (13.7 km) east of Platte Center. Owner: Loup River Public Power District.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 99 ft (30.2 m), screened 97 to 99 ft (29.6 to 30.2 m).

DATUM.--Altitude of land-surface datum is 1,511.8 ft (460.8 m). Measuring point: Top of casing 0.50 ft (0.15 m) above land-surface datum.

PERIOD OF RECORD.--November 1935 to August 1940; March 1942 to November 1953; November 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.30 ft (18.38 m) below land-surface datum, Mar. 27, 1940; lowest, 72.81 ft (22.19 m) below land-surface datum, Oct. 9, 1958.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976									
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	67.31								

RED WILLOW COUNTY

401015100353701. Local number 2N-29W-4AD.

LOCATION.--Lat 40°10'15", long 100°35'37", SE1/4NE1/4 sec.4, T.2 N., R.29 W., Hydrologic Unit 10250004, 2 mi (3.2 km) south and 1.5 mi (2.4 km) east of intersection of U.S. Highways 6 and 83 in east part of McCook. Owner: Rex S. Faberman.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 26 in (0.66 m), depth 40 ft (12.2 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,481 ft (756 m). Measuring point: Top of casing 3.00 ft (0.91 m) above land-surface datum.

PERIOD OF RECORD.--September 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.6 ft (7.50 m) below land-surface datum, Oct. 9, 1965; lowest, 37.10 ft (11.31 m) below land-surface datum, July 11, 1953.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976									
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	28.17	MAR 1	28.80	AUG 6	29.20				

G MEASUREMENT MADE BY ANOTHER AGENCY

403855097072501. Local number 8N-3E-19ADA.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

DATUM.--Altitude of land-surface datum is 1,496 ft (456 m). Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--October 1959 to current year.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	102.13	102.13	101.30	101.30	101.11	100.43	100.05	100.21	102.19	104.58	105.93
10	102.50	102.20	101.24	101.07	101.13	100.57	100.22	100.08	99.75	102.32	104.74	105.83
15	102.53	101.66	101.84	101.17	100.78	100.77	100.03	100.06	100.32	103.30	105.08	105.47
20	102.01	101.84	101.68	101.38	100.80	100.70	100.40	100.07	100.49	103.43	105.30	105.39
25	102.57	102.74	101.19	101.23	100.87	100.41	100.55	100.17	101.60	.....	105.65	104.96
ROM	101.78	102.13	101.21	101.03	100.64	100.75	100.25	100.05	102.41	.....	105.98	104.77

WTR YEAR 1976 MAX 99.64 JUN 11, 1976 MIN 106.22 AUG 29, 1976

410426096220401. Local number 13N-9E-24CC.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

DATUM.--Altitude of land-surface datum is 1,065.22 ft (324.68 m). Measuring point: Top of casing 4.50 ft (1.37 m) above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby wells in City of Lincoln well field.

PERIOD OF RECORD.--October 1933 to current year.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WATER LEVEL			WATER LEVEL			WATER LEVEL			WATER LEVEL			WATER LEVEL				
DATE			DATE			DATE			DATE			DATE				
OCT 25	9.35		DEC 25	8.27		FEB 25	6.93		APR 25	5.98		JUN 25	6.40		AUG 25	8.83
NOV 19	9.15		JAN 25	7.58		MAR 25	6.52		MAY 25	5.34		JUL 25	7.70		SEP 25	9.60
NOV 25	8.98															

GROUND-WATER LEVELS

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SAUNDERS COUNTY

411005096281502. Local number 14N-8E-24ACD2.

LOCATION.--Lat 41°10'05", long 96°28'15", SE1/4SW1/4NE1/4 sec.24, T.14 N., R.8 E., Hydrologic Unit 10200203, 4 mi (6.4 km) south from the intersection of Routes 92 and 692 near Mead, then 0.65 mi (1 km) east and 0.4 mi (0.64 km) south to the south end of load line 2 of the Mead Field Station. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 80 ft (24.4 m), screened 60 to 80 ft (18.3 to 24.4 m).

DATUM.--Altitude of land-surface datum is 1,171 ft (357 m). Measuring point: Top of casing 0.5 ft (0.15 m) above land-surface datum.

REMARKS.--Replacement for well 411005096281502, local number 14N-8E-24ACD1, with period of record July 1964 to November 1970. Water levels in well affected by pumping of nearby wells during irrigation season. Water quality records for the 1976 water year are published elsewhere in this report.

PERIOD OF RECORD.--April 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 42.47 ft (12.94 m) below land-surface datum, May 5, 1974; lowest, 44.31 ft (13.51 m) below land-surface datum, Sept. 20, 1972.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	43.08	43.12	42.99	43.08	43.10	43.08	43.10	43.29	43.42	43.73	43.99
10	43.13	43.07	42.98	43.03	43.05	43.05	43.06	43.10	43.26	43.48	43.77	44.04
15	43.12	43.00	43.06	43.05	43.03	43.08	43.09	43.10	43.32	43.56	43.83	44.12
20	43.05	43.00	43.10	43.07	43.00	.....	43.08	43.12	43.35	43.57	43.87	44.13
25	43.12	43.05	43.01	43.04	43.03	.....	43.13	43.16	43.37	43.59	43.91	44.13
FCM	43.05	43.08	43.03	43.04	43.04	.....	43.12	43.18	43.40	43.67	43.91	44.13

WTR YEAR 1976 MAX 42.85 DEC 29, 1975 MIN 44.13 SEP 30, 1976

SCOTTS BLUFF COUNTY

415325103392801. Local number 22N-55W-11DDC.

LOCATION.--Lat 41°53'25", long 103°39'28", SW1/4NE1/4NE1/4 sec.11, T.22 N., R.55 W., Hydrologic Unit 10180009, 0.5 mi (0.8 km) north of the west intersection of Routes 71 and 26 in Scottsbluff, then 0.8 mi (1.3 km) east. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 32 ft (9.7 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 3,953 ft (1,205 m). Measuring point: Top of casing 0.00 ft (0.00 m) above land-surface datum.

REMARKS.--Water levels in well affected by deep percolation of applied irrigation water and seepage losses of nearby irrigation canal and laterals.

PERIOD OF RECORD.--August 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.05 ft (7.03 m) below land-surface datum, Sept. 25, 1974; lowest, 26.55 ft (8.09 m) below land-surface datum, May 30, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	24.42	24.70	25.01	25.21	25.45	25.64	25.82	25.82	25.39	25.09	24.63
10	24.00	24.48	24.74	25.06	25.23	25.50	25.67	25.87	25.84	25.39	25.12	23.40
15	24.10	24.53	24.79	25.10	25.26	25.52	25.72	25.88	25.87	25.50	24.75	23.97
20	24.20	24.58	24.84	25.23	25.28	25.55	25.74	25.89	25.90	25.54	24.60	24.23
25	24.25	24.61	24.88	25.15	25.35	25.58	25.77	25.78	25.94	25.40	24.69	24.33
FCM	24.33	24.65	24.94	25.18	25.39	25.61	25.80	25.77	25.40	25.23	24.78	24.33

WTR YEAR 1976 MAX 23.29 SEP 10, 1976 MIN 25.89 MAY 20, 1976

GROUND-WATER LEVELS

SCOTTS BLUFF COUNTY

42000C103511501. Local number 23N-56W-6AA.

LOCATION.--Lat 42°00'00", long 103°51'15", NE1/4NE1/4 sec.6, T.23 N., R.56 W., Hydrologic Unit 10180009, 4 mi (6.4 km) north and 2 mi (3.2 km) west of intersection of U.S. Highway 26 and State Highway 29 in Mitchell. Owner: Carl Gompert.

AQUIFER.--Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 6 in (0.15 m), depth 118 ft (36.0 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 4,087.7 ft (1,245.9 m). Measuring point: Hole in pump base 0.7 ft (0.21 m) above land-surface datum.

REMARKS.--Water levels affected by withdrawals during irrigation season.

PERIOD OF RECORD.--November 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.24 ft (8.91 m) below land-surface datum, Oct. 26, 1949; lowest, 41.04 ft (12.51 m) below land-surface datum, Oct. 6, 1961.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 21	36.04										

SEWARD COUNTY

405406097115001. Local number 11N-2E-21ED.

LOCATION.--Lat 40°54'06", long 97°11'50", SE1/4SE1/4 sec.21, T.11 N., R.2 E., Hydrologic Unit 10270201, 4.5 mi (7.2 km) west of Seward. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 5 in (0.13 m), depth 123 ft (37.5 m), perforated 112 to 123 ft (34.1 to 37.5 m).

DATUM.--Altitude of land-surface datum is 1,550 ft (472 m). Measuring point: Top of casing 0.00 ft (0.00 m) above land-surface datum.

REMARKS.--Water levels in well affected by withdrawals from nearby irrigation wells. Water-quality records for the 1976 water year are published elsewhere in this report.

PERIOD OF RECORD.--May 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 76.37 ft (23.28 m) below land-surface datum, Dec. 20, 1965; lowest, 89.77 ft (27.36 m) below land-surface datum, Aug. 29, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	85.94	85.70	84.78	84.77	84.52	83.97	83.67	83.79	86.53	88.47	89.29
10	86.33	85.87	84.91	84.69	84.56	84.10	83.81	83.63	83.61	87.31	88.57	89.40
15	86.30	85.42	85.35	84.67	84.27	84.20	83.54	83.57	84.20	87.91	89.04	89.12
20	85.85	85.48	85.33	84.90	84.21	84.10	83.79	83.60	84.48	88.05	89.19	88.95
25	86.23	85.46	84.78	84.66	84.35	83.85	83.96	83.65	85.16	88.22	89.30	88.68
ECM	85.66	85.57	84.74	84.52	84.17	84.14	83.77	83.54	86.21	88.58	89.59	88.49

WTR YEAR 1976 MAX 83.20 MAY 5, 1976 MIN 89.77 AUG 29, 1976

GROUND-WATER LEVELS

VALLEY COUNTY

412955099123201. Local number 18N-16W-30CC.

LOCATION.--Lat 41°29'55", long 99°12'32", SW1/4SW1/4 sec.30, T.18 N., R.16 W., Hydrologic Unit 10210003, 4 mi (6.4 km) west and 5 mi (8.0 km) north of Arcadia. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1.25 in (0.03 m), depth 15 ft (4.6 m), screened from 13 to 15 ft (4.0 to 4.6 m).

DATUM.--Altitude of land-surface datum is 2,217.61 ft (675.93 m). Measuring point: Top of casing 2.00 ft (0.6 m) above land-surface datum.

REMARKS.--Water levels in well affected by evapotranspiration.

PERIOD OF RECORD.--August 1949 to June 1956; June 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.12 ft (0.34 m) below land-surface datum, July 23, 1962; lowest, 5.90 ft (1.80 m) below land-surface datum, Mar. 1, 1973.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
NOV	4	4.33	MAY	5	4.19G	JUL	8	2.61G	AUG	3	2.87G
MAR	5	4.48G	JUN	17	3.73G				AUG	26	3.36G
									SEP	17	3.35G

G MEASUREMENT MADE BY ANOTHER AGENCY

WEBSTER COUNTY

400423098314001. Local number 1N-11W-11AB.

LOCATION.--Lat 40°04'23", long 98°31'40", NW1/4NE1/4 sec.11, T.1 N., R.11 W., Hydrologic Unit 10250016, 1 mi (1.6 km) south and 0.25 mi (0.4 km) west of intersection of U.S. Highways 136 and 281 in Red Cloud. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 16.9 ft (5.2 m), casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,686 ft (514 m). Measuring point: Top of casing 1.1 ft (0.3 m) above land-surface datum.

PERIOD OF RECORD.--May 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.34 ft (0.41 m) below land-surface datum, July 11, 1951; lowest, 10.56 ft (3.22 m) below land-surface datum, Apr. 5, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
CCT	17	8.85	MAY	5	6.70						

YORK COUNTY

404620097482501. Local number 9N-4W-6DD.

LOCATION.--Lat 40°46'20", long 97°48'25", SE1/4SE1/4 sec.6, T.9 N., R.4 W., Hydrologic Unit 10270203, 0.5 mi (0.8 km) south of Henderson. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 18 in (0.45 m), depth 171 ft (52.1 m), casing perforated 83 to 171 ft (25.3 to 52.1 m).

DATUM.--Altitude of land-surface datum is 1,718 ft (524 m). Measuring point: Top of casing 0.0 ft (0.0 m) above land-surface datum.

REMARKS.--Water levels affected by withdrawals from nearby wells during irrigation season. Water-quality records for the 1976 water year are published elsewhere in this report.

PERIOD OF RECORD.--May 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 79.44 ft (24.21 m) below land-surface datum, June 20, 1959; lowest, 95.48 ft (29.10 m) below land-surface datum, Sept. 4, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	90.64	90.29	.....	89.03	88.74	88.10	87.93	87.60	89.49	93.07	95.32
10	91.25	90.65	.....	89.45	89.08	88.55	88.14	87.80	87.48	90.81	93.53	94.82
15	91.22	90.34	89.90	89.41	88.87	88.43	88.08	87.80	87.69	91.76	94.17	94.56
20	90.95	90.40	89.87	89.30	88.72	88.50	87.94	87.74	87.68	91.54	94.67	94.39
25	91.07	90.20	89.60	89.18	88.73	88.24	88.08	87.65	87.88	91.96	94.98	94.03
DOM	90.79	90.37	89.58	89.10	88.66	88.25	88.17	87.62	88.37	92.12	95.19	93.89

WTR YEAR 1976 MAX 87.39 JUN 13, 1976 MAX 95.48 SEP 4, 1976

YORK COUNTY

405305097351503. Local number 11N-2W-31BA3.

LOCATION.--Lat 40°53'05", long 97°35'15", NE1/4NW1/4 sec.31, T.11 N., R.2 W., Hydrologic Unit 10270203, south edge of York County Fairgrounds on the north side of York. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 165 ft (50.3 m), perforated below water table.

DATUM.--Altitude of land-surface datum is 1,659 ft (506 m). Measuring point: Top of casing 1.6 ft (0.5 m) above land-surface datum.

REMARKS.--Replacement for well 405305097351501, local number 11N-2W-31BA1, with period of record October 1957 to January 1969. Water levels in well affected by withdrawals from nearby municipal well and by withdrawals from nearby irrigation wells. Water-quality records for the 1976 water year are published elsewhere in this report.

PERIOD OF RECORD.--May 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 88.65 ft (27.02 m) below land-surface datum, Apr. 20, 1970; lowest, 120.81 ft (36.82 m) below land-surface datum, July 15, 1974.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	.....	96.85	96.37	95.40	94.61	94.36	93.91	96.23	97.97	111.95	111.63	105.20
10	97.69	96.48	96.25	95.80	94.06	94.17	94.58	96.62	98.69	117.27	115.23	101.93
15	97.93	96.45	96.27	95.79	93.71	95.25	95.57	95.17	101.93	113.50	110.75	101.16
20	97.47	96.30	96.20	95.85	94.39	94.16	94.27	96.53	105.74	116.81	112.88	100.07
25	97.05	95.50	94.99	95.73	93.24	96.14	95.70	94.92	113.57	114.61	110.56	100.14
DOM	96.56	95.50	95.90	94.46	93.98	94.72	94.67	96.23	118.83	110.66	106.66	99.85

WTR YEAR 1976 MAX 92.82 MAY 4, 1976 MIN 118.83 JUN 30, 1976

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

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(Local identifier: indicates location by township, range, and section. Geologic unit: 110 QRNR, Quaternary system; 110 WDBS, Quaternary windblown sand deposits; 112 SDGV, Pleistocene sand and gravel deposits; 121 OGLL, Ogallala Formation; 123 CDRNB, Chadron Formation, basal sand and gravel; 211 DKOT, Dakota Formation. SP=Spring)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT) (72008)	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)
ADAMS COUNTY										
6N 11W17CB 1	40 29 10	098 35 21	01	112SDGV	210	76-05-13	--	7.5	13.0	1
7N 9W11DC 1	40 35 03	098 18 13	01	112SDGV	200	76-03-16	460	7.4	13.5	1
				112SDGV	200	76-06-02	495	7.3	15.0	--
7N 10W23AB 1	40 34 03	098 24 40	01	112SDGV	155	76-05-13	--	7.3	13.0	1
8N 12W34BC 3	40 37 10	098 39 51	03	112SDGV	200	76-03-16	290	7.4	13.0	0
				112SDGV	200	76-06-02	328	7.3	14.5	--
BUFFALO COUNTY										
9N 14W13DB 1	40 44 46	098 50 36	01	112SDGV	55	76-07-21	1440	7.0	15.5	4
9N 15W34BA 1	40 42 36	098 59 58	01	112SDGV	59	76-07-21	1390	7.2	13.5	3
9N 16W 6AA 2	40 47 00	099 09 50	02	112SDGV	108	76-07-21	631	7.2	15.5	2
9N 18W28AA 1	40 43 34	099 22 16	01	112SDGV	117	76-07-21	644	7.1	14.5	2
CLAY COUNTY										
6N 8W 8CB 3	40 30 01	098 15 29	03	112SDGV	192	76-03-16	329	7.5	12.5	0
				112SDGV	192	76-06-02	323	7.1	14.0	--
6N 8W21DD 1	40 28 06	098 13 25	01	112SDGV	205	76-05-14	--	8.5	15.0	0
7N 5W 2AA 1	40 36 34	097 50 43	01	112SDGV	215	76-03-16	481	7.5	13.5	0
				112SDGV	215	76-06-03	477	7.1	13.5	--
8N 7W27DC 1	40 37 39	098 05 48	01	112SDGV	204	76-03-16	624	7.1	11.0	1
				112SDGV	204	76-06-02	463	7.2	14.5	--
DAWSON COUNTY										
9N 19W19BAC 1	40 44 25	099 32 00	01	112SDGV	42	76-07-21	1700	7.1	13.5	3
9N 21W 5CB 1	40 46 42	099 44 45	01	112SDGV	180	76-07-21	775	7.1	15.5	2
DUNDY COUNTY										
1N 37W 98BCC1	40 03 58	101 30 39	01	121OGLL	SP	75-10-22	708	7.5	11.0	--
1N 39W10BBC 1	40 04 21	101 43 08	01	121OGLL	77	75-10-22	303	7.5	13.5	--
2N 40W23ACDC1	40 07 36	101 47 48	01	121OGLL	138	75-10-22	341	7.6	14.0	--
2N 40W24DBAC1	40 07 26	101 46 58	01	121OGLL	SP	75-10-22	331	7.4	14.0	--
2N 40W24DCDA1	40 07 15	101 47 02	01	121OGLL	SP	75-10-22	342	7.4	14.0	--
FILLMORE COUNTY										
5N 4W12BD 1	40 25 00	097 43 14	01	112SDGV	131	76-03-16	431	7.6	12.0	1
	40 25 00	097 43 14	01	112SDGV	131	76-06-03	450	7.2	14.0	--
7N 1W19AA 2	40 33 56	097 27 56	02	112SDGV	255	76-04-21	--	9.3	13.0	0
7N 3W36DB 1	40 31 45	097 36 09	01	112SDGV	196	76-03-17	455	7.7	12.5	0
				112SDGV	196	76-06-03	462	7.5	13.5	--
8N 1W20DB 2	40 38 43	097 27 06	02	112SDGV	306	76-03-17	821	7.4	13.0	1
				112SDGV	306	76-06-03	337	7.2	14.0	--
8N 2W26AD 1	40 38 00	097 30 07	01	112SDGV	40	76-04-21	--	7.0	14.0	4
GAGE COUNTY										
2N 5E 8AD 1	40 09 17	096 52 51	01	112SDGV	167	76-05-06	--	7.0	14.5	1
HALL COUNTY										
10N 11W19CA 1	40 49 11	098 36 00	01	112SDGV	90	76-07-21	775	7.1	15.5	3
11N 10W 4CCB 1	40 56 52	098 27 10	01	112SDGV	64	76-07-22	635	7.3	13.0	3
11N 10W15BC 1	40 55 31	098 25 57	01	112SDGV	52	76-07-22	299	6.8	15.0	3
11N 10W16CB 1	40 55 14	098 27 10	01	112SDGV	80	76-07-22	389	7.3	15.0	3
11N 11W19CCB 2	40 54 15	098 36 22	02	112SDGV	208	76-07-21	1340	6.9	14.5	3
11N 11W35BCC 1	40 52 50	098 31 46	01	112SDGV	69	76-07-22	708	6.9	13.5	3
12N 9W 8BCC 1	41 01 32	098 22 32	01	112SDGV	74	76-07-20	338	7.3	14.0	2
12N 9W11CC 1	41 01 11	098 19 04	01	112SDGV	58	76-07-20	499	7.1	14.0	2
12N 10W31DCD 1	40 57 38	098 28 45	01	112SDGV	50	76-07-21	785	7.4	16.5	3
12N 12W24AB 2	41 00 05	098 36 52	02	112SDGV	118	76-07-21	590	7.4	14.5	3

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

LOCAL IDENT- IFIER	DATE OF SAMPLE	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)
ADAMS COUNTY										
6N 11W17CB 1	76-05-13	120	0	37	7.8	22	.9	9.2	207	0
7N 9W11DC 1	76-03-16	170	0	56	8.3	24	.8	7.3	220	0
	76-06-02	190	--	61	8.7	26	.8	6.4	--	--
7N 10W23AB 1	76-05-13	160	9	53	7.5	18	.6	6.7	189	0
8N 12W34BC 3	76-03-16	120	0	37	5.9	10	.4	6.2	151	0
	76-06-02	130	--	41	7.0	13	.5	5.6	--	--
BUFFALO COUNTY										
9N 14W13DB 1	76-07-21	540	270	170	28	99	1.9	16	329	0
9N 15W34BA 1	76-07-21	590	380	180	34	79	1.4	12	261	0
9N 16W 6AA 2	76-07-21	310	20	100	14	8.4	.2	8.4	350	0
9N 18W28AA 1	76-07-21	310	28	91	19	16	.4	12	338	0
CLAY COUNTY										
6N 8W 8CB 3	76-03-16	130	0	42	6.0	13	.5	6.0	174	0
	76-06-02	130	--	41	6.2	13	.5	5.1	--	--
6N 8W21DD 1	76-05-14	49	0	12	4.6	12	.7	6.1	83	0
7N 5W 2AA 1	76-03-16	200	12	66	9.6	19	.6	6.2	235	0
	76-06-03	200	--	62	10	19	.6	5.5	--	--
8N 7W27DC 1	76-03-16	270	85	84	14	25	.7	7.2	223	0
	76-06-02	150	--	50	6.7	18	.6	6.0	--	--
DAWSON COUNTY										
9N 19W19BAC 1	76-07-21	560	150	160	39	180	3.3	32	502	0
9N 21W 5CB 1	76-07-21	320	68	97	20	40	1.0	15	313	0
DUNDY COUNTY										
1N 37W 98BCC1	75-10-22	--	--	--	--	--	--	--	--	--
1N 39W108BC 1	75-10-22	--	--	--	--	--	--	--	--	--
2N 40W23ACDC1	75-10-22	--	--	--	--	--	--	--	--	--
2N 40W24DBAC1	75-10-22	--	--	--	--	--	--	--	--	--
2N 40W24DCDA1	75-10-22	--	--	--	--	--	--	--	--	--
FILLMORE COUNTY										
5N 4W12BD 1	76-03-16	160	0	50	7.7	23	.8	7.5	196	0
	76-06-03	180	--	58	7.7	23	.8	6.8	--	--
7N 1W19AA 2	76-04-21	41	0	5.4	6.7	42	2.9	4.7	66	28
7N 3W36DB 1	76-03-17	180	11	58	9.5	20	.6	4.1	211	0
	76-06-03	180	--	57	10	20	.6	3.8	--	--
8N 1W20DB 2	76-03-17	350	120	110	19	35	.8	5.5	288	0
	76-06-03	320	--	98	19	30	.7	5.0	--	--
8N 2W26AD 1	76-04-21	1500	1100	470	76	100	1.1	21	464	0
GAGE COUNTY										
2N 5E 8AD 1	76-05-06	280	28	88	15	26	.7	3.3	310	0
HALL COUNTY										
10N 11W19CA 1	76-07-21	350	110	110	18	21	.5	13	293	0
11N 10W 4CCB 1	76-07-22	260	38	81	13	32	.9	11	265	0
11N 10W158C 1	76-07-22	120	23	37	6.3	10	.4	7.2	116	0
11N 10W16C8C 1	76-07-22	150	10	47	7.3	19	.7	9.5	167	0
11N 11W19CCB 2	76-07-21	640	340	200	34	64	1.1	7.7	371	0
11N 11W35BCC 1	76-07-22	300	81	95	16	22	.6	12	271	0
12N 9W 8BCC 1	76-07-20	150	6	46	8.8	7.9	.3	10	177	0
12N 9W11CC 1	76-07-20	200	0	61	12	20	.6	11	248	0
12N 10W31DCD 1	76-07-21	380	87	120	19	30	.7	9.5	355	0
12N 12W24AB 2	76-07-21	260	4	84	13	20	.5	9.8	316	0

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

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LOCAL IDENT- IFIER	DATE OF SAMPLE	ALKA- LITY AS CACO3 (00410)	DIS- SOLVED SULFATE (SO4) (00945)	DIS- SOLVED CHLO- RIDE (CL) (00940)	DIS- SOLVED FLUO- RIDE (F) (00950)	DIS- SOLVED SILICA (SiO2) (00955)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NITRATE (N) (00620)
ADAMS COUNTY										
6N 11W17CB 1	76-05-13	170	5.3	6.1	.3	7.0	210	197	.29	--
7N 9W11DC 1	76-03-16	180	35	12	.4	26	--	289	.39	--
	76-06-02	--	--	--	--	--	299	--	--	3.1
7N 10W23AB 1	76-05-13	155	21	11	.2	28	256	256	.35	--
8N 12W34BC 3	76-03-16	124	16	3.2	.3	31	--	190	.26	--
	76-06-02	--	--	--	--	--	215	--	--	1.9
BUFFALO COUNTY										
9N 14W13DB 1	76-07-21	270	330	89	.3	35	--	1000	1.36	--
9N 15W34BA 1	76-07-21	214	340	54	.3	28	--	1020	1.39	--
9N 16W 6AA 2	76-07-21	287	49	9.9	.3	55	--	419	.57	--
9N 18W28AA 1	76-07-21	277	55	12	.3	61	--	444	.60	--
CLAY COUNTY										
6N 8W 8CB 3	76-03-16	143	13	5.1	.4	27	--	209	.28	--
	76-06-02	--	--	--	--	--	195	--	--	2.0
6N 8W21DD 1	76-05-14	68	.9	3.5	.3	1.4	85	82	.12	--
7N 5W 2AA 1	76-03-16	193	33	17	.3	31	--	300	.41	--
	76-06-03	--	--	--	--	--	293	--	--	.26
8N 7W27DC 1	76-03-16	183	120	14	.3	33	--	410	.56	--
	76-06-02	--	--	--	--	--	295	--	--	.31
DAWSON COUNTY										
9N 19W19BAC 1	76-07-21	412	440	38	.4	53	--	1230	1.67	--
9N 21W 5CB 1	76-07-21	257	130	23	.4	64	--	551	.75	--
DUNDY COUNTY										
1N 37W 98BCC1	75-10-22	--	--	--	--	--	--	--	--	5.0
1N 39W10B8C 1	75-10-22	--	--	--	--	--	--	--	--	.03
2N 40W23ACDC1	75-10-22	--	--	--	--	--	--	--	--	1.4
2N 40W24DBAC1	75-10-22	--	--	--	--	--	--	--	--	1.3
2N 40W24DCDA1	75-10-22	--	--	--	--	--	--	--	--	1.6
FILLMORE COUNTY										
5N 4W12BD 1	76-03-16	161	30	15	.3	33	--	276	.38	--
	76-06-03	--	--	--	--	--	275	--	--	2.1
7N 1W19AA 2	76-04-21	101	20	14	.2	.5	143	154	.19	--
7N 3W36DB 1	76-03-17	173	38	14	.3	29	--	278	.38	--
	76-06-03	--	--	--	--	--	277	--	--	.20
8N 1W20DB 2	76-03-17	236	160	16	.4	30	--	535	.73	--
	76-06-03	--	--	--	--	--	516	--	--	2.6
8N 2W26AD 1	76-04-21	381	1300	2.8	.4	25	2360	2230	3.21	--
GAGE COUNTY										
2N 5E 8AD 1	76-05-06	254	68	16	.3	30	403	403	.55	--
HALL COUNTY										
10N 11W19CA 1	76-07-21	240	79	25	.3	37	--	519	.71	--
11N 10W 4CCB 1	76-07-22	217	83	17	.2	24	--	409	.56	--
11N 10W15BC 1	76-07-22	95	28	6.7	.2	26	--	196	.27	--
11N 10W16CBC 1	76-07-22	137	38	12	.3	26	--	252	.34	--
11N 11W19CCB 2	76-07-21	304	420	33	.3	44	--	989	1.35	--
11N 11W35BCC 1	76-07-22	222	79	12	.2	28	--	413	.56	--
12N 9W 88CC 1	76-07-20	145	19	4.6	.4	49	--	243	.33	--
12N 9W11CC 1	76-07-20	203	48	5.7	.4	34	--	323	.44	--
12N 10W31DCD 1	76-07-21	291	140	7.2	.3	43	--	547	.74	--
12N 12W24AB 2	76-07-21	259	46	11	.3	46	--	387	.53	--

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED NITRATE (N) (00618)	TOTAL NITRITE (N) (00615)	DIS- SOLVED NITRITE (N) (00613)	TOTAL NITRITE PLUS NITRATE (N) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (00631)	TOTAL AMMONIA NITRO- GEN (N) (00610)	TOTAL ORGANIC NITRO- GEN (N) (00605)	TOTAL KJEL- DAHL- GEN (N) (00625)	TOTAL NITRO- GEN (N) (00600)
ADAMS COUNTY										
6N 11W17CB 1	76-05-13	.00	--	.01	.01	.01	.10	.30	.40	.41
7N 9W11DC 1	76-03-16	--	--	--	--	2.6	--	--	--	--
	76-06-02	--	.03	--	3.1	3.1	.01	.07	.08	3.2
7N 10W23AB 1	76-05-13	3.8	--	.01	3.8	3.8	.00	.00	.00	3.8
8N 12W34BC 3	76-03-16	--	--	--	--	1.4	--	--	--	--
	76-06-02	--	.01	--	1.9	1.9	.00	.00	.00	1.9
BUFFALO COUNTY										
9N 14W13DB 1	76-07-21	--	--	--	--	16	--	--	--	--
9N 15W34BA 1	76-07-21	--	--	--	--	37	--	--	--	--
9N 16W 6AA 2	76-07-21	--	--	--	--	.06	--	--	--	--
9N 18W28AA 1	76-07-21	--	--	--	--	2.4	--	--	--	--
CLAY COUNTY										
6N 8W 8CB 3	76-03-16	--	--	--	--	2.5	--	--	--	--
	76-06-02	--	.02	--	2.0	--	.00	.00	.00	2.0
6N 8W21DD 1	76-05-14	.09	--	.01	2.0	.10	1.5	.50	2.0	4.0
7N 5W 2AA 1	76-03-16	--	--	--	--	.38	--	--	--	--
	76-06-03	--	.01	--	.27	.25	.02	.08	.10	.37
8N 7W27DC 1	76-03-16	--	--	--	--	.57	--	--	--	--
	76-06-02	--	.01	--	.32	--	.01	.02	.03	.35
DAWSON COUNTY										
9N 19W19BAC 1	76-07-21	--	--	--	--	9.6	--	--	--	--
9N 21W 5CB 1	76-07-21	--	--	--	--	1.6	--	--	--	--
DUNDY COUNTY										
1N 37W 98BCC1	75-10-22	--	.03	--	5.0	--	.10	1.8	1.9	6.9
1N 39W108BC 1	75-10-22	--	.01	--	.04	--	.48	1.5	2.0	2.0
2N 40W23ACDC1	75-10-22	--	.01	--	1.4	--	.02	.01	.03	1.4
2N 40W240BAC1	75-10-22	--	.01	--	1.3	--	.04	.16	.20	1.5
2N 40W24DCDA1	75-10-22	--	.01	--	1.6	--	.03	.09	.12	1.7
FILLMORE COUNTY										
5N 4W12BD 1	76-03-16	--	--	--	--	2.9	--	--	--	--
	76-06-03	--	.01	--	2.1	--	.01	.09	.10	2.2
7N 1W19AA 2	76-04-21	.02	--	.00	.07	.02	.74	.56	1.3	1.4
7N 3W36DB 1	76-03-17	--	--	--	--	.14	--	--	--	--
	76-06-03	--	.01	--	.21	--	.09	.04	.13	.34
8N 1W20DB 2	76-03-17	--	--	--	--	3.9	--	--	--	--
	76-06-03	--	.02	--	2.6	--	.00	.00	.00	2.6
8N 2W26AD 1	76-04-21	.71	--	.01	.80	.72	.14	1.4	1.5	2.3
GAGE COUNTY										
2N 5E 8AD 1	76-05-06	.42	--	.00	.54	.42	.03	.43	.46	1.0
HALL COUNTY										
10N 11W19CA 1	76-07-21	--	--	--	--	16	--	--	--	--
11N 10W 4CCB 1	76-07-22	--	--	--	--	3.8	--	--	--	--
11N 10W15BC 1	76-07-22	--	--	--	--	3.9	--	--	--	--
11N 10W16CBC 1	76-07-22	--	--	--	--	2.3	--	--	--	--
11N 11W19CCB 2	76-07-21	--	--	--	--	.54	--	--	--	--
11N 11W35BCC 1	76-07-22	--	--	--	--	3.3	--	--	--	--
12N 9W 8BCC 1	76-07-20	--	--	--	--	2.3	--	--	--	--
12N 9W11CC 1	76-07-20	--	--	--	--	1.8	--	--	--	--
12N 10W31DCD 1	76-07-21	--	--	--	--	.07	--	--	--	--
12N 12W24AB 2	76-07-21	--	--	--	--	.09	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

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LOCAL IDENT- IFIER	DATE OF SAMPLE	TOTAL PHOS- PHORUS (P) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (00666)	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BERYL- LIUM (BE) (UG/L) (01010)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
ADAMS COUNTY										
6N 11W17CB 1	76-05-13	.08	.06	10	0	100	0	20	1	<0
7N 9W11DC 1	76-03-16	--	.13	--	--	--	--	40	--	--
	76-06-02	.24	.13	10	2	100	0	--	4	10
7N 10W23AB 1	76-05-13	.38	.02	10	0	100	0	30	0	0
8N 12W34BC 3	76-03-16	--	.21	--	--	--	--	30	--	--
	76-06-02	.21	.18	0	2	200	0	--	0	<10
BUFFALO COUNTY										
9N 14W13DB 1	76-07-21	--	.11	--	--	--	--	230	--	--
9N 15W34BA 1	76-07-21	--	.04	--	--	--	--	120	--	--
9N 16W 6AA 2	76-07-21	--	.22	--	--	--	--	50	--	--
9N 18W28AA 1	76-07-21	--	.02	--	--	--	--	60	--	--
CLAY COUNTY										
6N 8W 8CB 3	76-03-16	--	.23	--	--	--	--	30	--	--
	76-06-02	.26	.25	10	2	100	0	--	0	10
6N 8W21DD 1	76-05-14	.05	.02	10	0	100	0	0	0	10
7N 5W 2AA 1	76-03-16	--	.17	--	--	--	--	30	--	--
	76-06-03	.19	.16	0	4	100	0	--	0	10
8N 7W27DC 1	76-03-16	--	.19	--	--	--	--	30	--	--
	76-06-02	.19	.17	0	1	100	0	--	0	10
DAWSON COUNTY										
9N 19W19BAC 1	76-07-21	--	.15	--	--	--	--	180	--	--
9N 21W 5CB 1	76-07-21	--	.01	--	--	--	--	80	--	--
DUNDY COUNTY										
1N 37W 98BCC1	75-10-22	--	--	--	--	--	--	--	--	--
1N 39W10BBC 1	75-10-22	--	--	--	--	--	--	--	--	--
2N 40W23ACDC1	75-10-22	--	--	--	--	--	--	--	--	--
2N 40W24DBAC1	75-10-22	--	--	--	--	--	--	--	--	--
2N 40W24DCDA1	75-10-22	--	--	--	--	--	--	--	--	--
FILLMORE COUNTY										
5N 4W12BD 1	76-03-16	--	.26	--	--	--	--	30	--	--
	76-06-03	.33	--	40	3	200	0	--	0	20
7N 1W19AA 2	76-04-21	.03	.02	0	0	100	0	0	0	10
7N 3W36DB 1	76-03-17	--	.17	--	--	--	--	30	--	--
	76-06-03	.22	.16	10	4	100	0	--	1	<10
8N 1W20DB 2	76-03-17	--	.22	--	--	--	--	50	--	--
	76-06-03	.25	.25	10	5	0	0	--	1	10
8N 2W26AD 1	76-04-21	1.2	.06	0	7	0	0	50	3	10
GAGE COUNTY										
2N 5E 8AD 1	76-05-06	.54	.02	0	1	100	0	30	1	--
HALL COUNTY										
10N 11W19CA 1	76-07-21	--	.33	--	--	--	--	230	--	--
11N 10W 4CCB 1	76-07-22	--	.07	--	--	--	--	140	--	--
11N 10W15BC 1	76-07-22	--	.17	--	--	--	--	60	--	--
11N 10W16CBC 1	76-07-22	--	.15	--	--	--	--	290	--	--
11N 11W19CCB 2	76-07-21	--	.01	--	--	--	--	70	--	--
11N 11W35BCC 1	76-07-22	--	.26	--	--	--	--	50	--	--
12N 9W 8BCC 1	76-07-20	--	.38	--	--	--	--	20	--	--
12N 9W11CC 1	76-07-20	--	.20	--	--	--	--	40	--	--
12N 10W31DCD 1	76-07-21	--	.02	--	--	--	--	60	--	--
12N 12W24AB 2	76-07-21	--	.49	--	--	--	--	60	--	--

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L) (01060)	DIS- SOLVED NICKEL (NI) (UG/L) (01065)
ADAMS COUNTY										
6N 11W17CB 1	76-05-13	0	0	50	0	10	70	<.5	5	4
7N 9W11DC 1	76-03-16	--	7	40	--	--	0	--	--	--
	76-06-02	0	80	--	38	10	--	<.5	3	2
7N 10W23AB 1	76-05-13	0	0	470	1	10	20	<.5	2	4
8N 12W34BC 3	76-03-16	--	4	10	--	--	10	--	--	--
	76-06-02	0	10	--	3	10	--	<.5	4	2
BUFFALO COUNTY										
9N 14W13DB 1	76-07-21	--	5	20	--	--	10	--	--	--
9N 15W34BA 1	76-07-21	--	1	20	--	--	0	--	--	--
9N 16W 6AA 2	76-07-21	--	0	560	--	--	230	--	--	--
9N 18W28AA 1	76-07-21	--	4	40	--	--	0	--	--	--
CLAY COUNTY										
6N 8W 8CB 3	76-03-16	--	3	10	--	--	10	--	--	--
	76-06-02	0	0	--	7	10	--	<.5	2	2
6N 8W21DD 1	76-05-14	0	0	20	1	10	20	<.5	3	3
7N 5W 2AA 1	76-03-16	--	3	20	--	--	10	--	--	--
	76-06-03	0	0	--	2	20	--	<.5	2	3
8N 7W27DC 1	76-03-16	--	6	60	--	--	0	--	--	--
	76-06-02	0	0	--	3	20	--	<.5	2	2
DAWSON COUNTY										
9N 19W19BAC 1	76-07-21	--	3	40	--	--	30	--	--	--
9N 21W 5CB 1	76-07-21	--	1	80	--	--	10	--	--	--
DUNDY COUNTY										
1N 37W 9BBCC1	75-10-22	--	--	--	--	--	--	--	--	--
1N 39W10BBC 1	75-10-22	--	--	--	--	--	--	--	--	--
2N 40W23ACDC1	75-10-22	--	--	--	--	--	--	--	--	--
2N 40W24DBAC1	75-10-22	--	--	--	--	--	--	--	--	--
2N 40W24DCDA1	75-10-22	--	--	--	--	--	--	--	--	--
FILLMORE COUNTY										
5N 4W12BD 1	76-03-16	--	16	70	--	--	0	--	--	--
	76-06-03	0	40	--	3	20	--	<.5	3	3
7N 1W19AA 2	76-04-21	0	0	40	2	20	0	.0	3	2
7N 3W36DB 1	76-03-17	--	3	130	--	--	640	--	--	--
	76-06-03	0	0	--	2	10	--	<.5	2	2
8N 1W20DB 2	76-03-17	--	4	30	--	--	20	--	--	--
	76-06-03	0	0	--	5	20	--	<.5	4	2
8N 2W26AD 1	76-04-21	2	16	680	2	70	170	.0	10	13
GAGE COUNTY										
2N 5E 8AD 1	76-05-06	2	8	850	2	30	200	.0	2	6
HALL COUNTY										
10N 11W19CA 1	76-07-21	--	1	20	--	--	0	--	--	--
11N 10W 4CCB 1	76-07-22	--	0	130	--	--	50	--	--	--
11N 10W15BC 1	76-07-22	--	1	60	--	--	0	--	--	--
11N 10W16C8C 1	76-07-22	--	0	130	--	--	20	--	--	--
11N 11W19CCB 2	76-07-21	--	0	280	--	--	380	--	--	--
11N 11W35BCC 1	76-07-22	--	1	30	--	--	0	--	--	--
12N 9W 8BCC 1	76-07-20	--	0	30	--	--	30	--	--	--
12N 9W11CC 1	76-07-20	--	0	300	--	--	290	--	--	--
12N 10W310CD 1	76-07-21	--	0	1700	--	--	530	--	--	--
12N 12W24AB 2	76-07-21	--	0	440	--	--	440	--	--	--

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED STRON- TIUM (SR) (UG/L) (01080)	DIS- SOLVED VANA- DIUM (V) (UG/L) (01085)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
ADAMS COUNTY						
6N 11W17CB 1	76-05-13	0	0	220	.0	0
7N 9W11DC 1	76-03-16	--	--	--	--	10
	76-06-02	6	0	330	3.6	0
7N 10W23AB 1	76-05-13	4	0	260	.6	0
8N 12W34BC 3	76-03-16	--	--	--	--	0
	76-06-02	2	0	240	4.8	10
BUFFALO COUNTY						
9N 14W13DB 1	76-07-21	--	--	--	--	10
9N 15W34BA 1	76-07-21	--	--	--	--	10
9N 16W 6AA 2	76-07-21	--	--	--	--	370
9N 18W28AA 1	76-07-21	--	--	--	--	30
CLAY COUNTY						
6N 8W 8CB 3	76-03-16	--	--	--	--	0
	76-06-02	5	0	200	5.1	10
6N 8W21DD 1	76-05-14	0	1	130	.0	0
7N 5W 2AA 1	76-03-16	--	--	--	--	0
	76-06-03	1	0	330	.0	0
8N 7W27DC 1	76-03-16	--	--	--	--	0
	76-06-02	4	0	340	.0	0
DAWSON COUNTY						
9N 19W19BAC 1	76-07-21	--	--	--	--	30
9N 21W 5CB 1	76-07-21	--	--	--	--	10
DUNDY COUNTY						
1N 37W 988CC1	75-10-22	25	--	--	--	--
1N 39W1088C 1	75-10-22	1	--	--	--	--
2N 40W23ACDC1	75-10-22	1	--	--	--	--
2N 40W24DBAC1	75-10-22	1	--	--	--	--
2N 40W24DCDA1	75-10-22	2	--	--	--	--
FILLMORE COUNTY						
5N 4W12BD 1	76-03-16	--	--	--	--	50
	76-06-03	12	0	250	6.9	210
7N 1W19AA 2	76-04-21	0	0	20	.0	0
7N 3W36DB 1	76-03-17	--	--	--	--	10
	76-06-03	1	0	330	.0	10
8N 1W20DB 2	76-03-17	--	--	--	--	20
	76-06-03	5	0	510	7.7	40
8N 2W26AD 1	76-04-21	3	0	1800	6.9	1600
GAGE COUNTY						
2N 5E 8AD 1	76-05-06	10	0	520	2.2	20
HALL COUNTY						
10N 11W19CA 1	76-07-21	--	--	--	--	0
11N 10W 4CCB 1	76-07-22	--	--	--	--	0
11N 10W15BC 1	76-07-22	--	--	--	--	20
11N 10W16CBC 1	76-07-22	--	--	--	--	0
11N 11W19CCB 2	76-07-21	--	--	--	--	10
11N 11W35BCC 1	76-07-22	--	--	--	--	10
12N 9W 8BCC 1	76-07-20	--	--	--	--	0
12N 9W11CC 1	76-07-20	--	--	--	--	0
12N 10W31DCD 1	76-07-21	--	--	--	--	60
12N 12W24AB 2	76-07-21	--	--	--	--	0

LOCAL IDENT- IFIER	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT) (72008)	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)
HAMILTON COUNTY										
9N 7W 6DAD 2	40 46 33	098 09 12	02	112SDGV	190	76-03-18	624	7.5	12.5	1
				112SDGV	190	76-06-02	970	6.4	13.5	--
10N 6W 4CB 1	40 51 47	098 00 45	01	112SDGV	248	76-03-18	442	7.6	12.0	0
				112SDGV	248	76-06-02	437	7.2	13.5	--
				112SDGV	248	76-09-27	334	8.2	13.0	3
10N 6W26BC 1	40 48 25	097 58 33	01	112SDGV	131	76-04-30	--	6.8	16.0	0
11N 7W 2DD 1	40 56 43	098 04 40	01	112SDGV	150	76-01-22	--	--	--	--
11N 7W 3CC 1	40 56 45	098 06 42	01	112SDGV	180	76-09-03	2410	--	--	--
11N 7W 3CCA 1	40 56 53	098 06 34	01	112SDGV	190	76-01-20	--	--	--	--
11N 7W 3CCC 1	40 56 42	098 06 39	01	112SDGV	180	76-01-20	--	--	--	--
11N 7W 4DD 1	40 56 47	098 06 48	01	112SDGV	--	76-01-22	--	--	--	--
				112SDGV	--	76-09-14	3260	--	--	--
11N 7W 6CC 1	40 56 43	098 10 00	01	112SDGV	210	76-09-03	842	--	--	--
11N 7W 6CDD 1	40 56 41	098 09 38	01	112SDGV	170	76-01-20	--	--	--	--
11N 7W 7BA 1	40 56 37	098 09 44	01	112SDGV	180	75-10-10	1000	6.8	12.5	1
				112SDGV	180	75-12-04	--	--	--	2
				112SDGV	180	75-12-05	--	--	--	2
				112SDGV	180	75-12-05	--	--	--	2
11N 7W 7BBB 1	40 56 40	098 10 08	01	112SDGV	--	76-01-20	--	--	--	--
11N 7W 7DB 1	40 56 06	098 07 05	01	112SDGV	200	75-10-10	711	6.9	--	1
11N 7W 8CC 1	40 56 01	098 08 43	01	112SDGV	220	75-10-10	561	7.0	13.0	2
				112SDGV	220	75-12-02	--	--	--	4
				112SDGV	220	75-12-09	--	--	--	1
				112SDGV	220	75-12-09	--	--	--	1
				112SDGV	220	75-12-10	--	--	--	2
				112SDGV	220	75-12-10	--	--	--	1
				112SDGV	220	75-12-10	--	--	--	1
11N 7W 9DA 1	40 57 04	098 06 50	01	112SDGV	170	76-01-23	--	--	--	--
11N 7W10BAA 1	40 56 40	098 06 12	01	112SDGV	--	76-01-22	--	--	--	--
11N 7W27BC 1	40 53 16	098 06 40	01	112SDGV	--	76-01-23	--	--	--	--
11N 7W28AA 1	40 53 55	098 06 46	01	112SDGV	--	76-01-23	--	--	--	--
11N 8W12AC 1	40 56 24	098 10 31	01	112SDGV	188	75-10-10	1130	6.9	12.0	2
12N 5W23CCC 1	40 59 21	097 51 47	01	112SDGV	189	76-05-04	--	7.1	13.8	6
HOLT COUNTY										
28N 9W 4DCCC1	42 25 24	098 22 21	01	112SDGV	119	75-12-10	230	6.7	11.0	0
29N 10W280A 1	42 27 23	098 29 01	01	112SDGV	45	75-12-09	94	6.9	10.0	0
29N 11W 8DC 1	42 29 44	098 37 18	01	112SDGV	70	75-12-08	689	7.0	11.0	0
29N 12W 3DD 2	42 30 36	098 42 02	02	112SDGV	102	75-12-09	434	6.9	10.0	0
29N 12W11DD 1	42 29 44	098 40 51	01	112SDGV	--	75-12-09	311	7.3	13.0	0
29N 12W14DA 1	42 29 04	098 40 51	01	110WDBS	45	75-12-09	242	7.1	12.0	1
30N 10W24DD 2	42 33 16	098 25 30	02	112SDGV	32	75-12-10	545	6.3	13.0	0
30N 11W16CAAA1	42 34 11	098 36 52	01	121OGLL	--	75-12-08	212	7.2	15.0	0
30N 12W23BA 1	42 33 52	098 41 26	01	112SDGV	85	75-12-09	202	7.2	9.0	1
30N 13W13CD 1	42 34 04	098 47 14	01	110QRNR	80	75-12-09	268	7.0	9.0	0
30N 14W23AA 2	42 33 52	098 54 54	02	112SDGV	68	75-12-09	258	6.8	9.0	2
31N 11W11AC 1	42 40 38	098 33 49	01	110WDBS	60	75-12-08	1070	6.8	9.0	1
31N 12W31BA 1	42 37 22	098 46 05	01	110WDBS	85	75-12-09	294	7.0	10.5	0
31N 12W35AB 1	42 37 22	098 41 08	01	110WDBS	36	75-12-09	243	7.0	9.0	2
JEFFERSON COUNTY										
4N 1E31AA 1	40 16 26	097 21 07	01	112SDGV	210	76-05-14	--	9.1	13.0	1
4N 3E13DA 1	40 18 37	097 01 53	01	112SDGV	237	76-05-06	--	7.0	13.5	0
KEYA PAHA COUNTY										
33N 21W 8DA 2	42 50 37	099 48 30	02	121OGLL	180	75-12-10	193	6.3	9.0	0
33N 21W10DC 1	42 50 24	099 46 27	01	121OGLL	90	75-12-10	253	6.4	12.0	0
KNOX COUNTY										
29N 8W32AAA 1	42 27 02	098 16 03	01	121OGLL	--	75-12-10	488	6.4	10.0	0
LANCASTER COUNTY										
10N 6E36CDD 1	40 47 06	096 41 30	01	211DKOT	170	76-04-15	--	6.8	17.5	15
MERRICK COUNTY										
13N 6W 9AC 1	41 06 51	098 00 31	01	112SDGV	45	76-07-20	828	7.1	14.5	3
13N 7W 5CB 1	41 07 27	098 08 58	01	112SDGV	105	76-07-20	410	6.8	15.5	2
13N 7W27BC 1	41 04 12	098 06 42	01	112SDGV	40	76-07-20	1210	7.0	13.0	12
14N 5W 1BAB 1	41 13 09	097 50 35	01	112SDGV	26	76-07-20	1020	7.2	15.5	3
14N 6W 5DA 1	41 12 43	098 01 23	01	112SDGV	49	76-07-20	352	7.2	14.5	15
16N 3W29DC 1	41 19 27	097 40 57	01	112SDGV	41	76-07-20	826	7.3	14.0	4

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (CA+MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)
HAMILTON COUNTY										
9N 7W 60AD 2	76-03-18	250	51	77	14	28	.8	6.0	243	0
	76-06-02	260	--	80	15	210	5.7	6.9	--	--
10N 6W 4CB 1	76-03-18	180	9	57	8.9	21	.7	5.3	207	0
	76-06-02	170	--	55	8.9	21	.7	4.7	--	--
	76-09-27	100	40	27	7.9	25	1.1	3.8	73	0
10N 6W26BC 1	76-04-30	220	10	68	11	21	.6	8.3	251	0
11N 7W 2UD 1	76-01-22	410	130	130	21	35	.8	11	339	--
11N 7W 3CC 1	76-09-03	1200	940	360	65	58	.7	18	279	--
11N 7W 3CCA 1	76-01-20	280	78	87	15	28	.7	6.8	245	--
11N 7W 3CCC 1	76-01-20	360	140	110	20	32	.7	7.6	265	--
11N 7W 4DD 1	76-01-22	290	86	91	15	30	.8	7.5	247	--
	76-09-14	1800	1500	560	88	95	1.0	22	286	--
11N 7W 6CC 1	76-09-03	290	110	86	18	73	1.9	5.6	217	--
11N 7W 6CDD 1	76-01-20	320	0	97	18	29	.7	16	431	--
11N 7W 7BA 1	75-10-10	330	0	100	19	100	2.4	7.3	446	0
	75-12-04	350	120	110	18	52	1.2	7.1	282	--
	75-12-05	350	120	110	18	56	1.3	7.1	279	--
	75-12-05	320	100	100	18	54	1.3	7.1	273	--
11N 7W 78BB 1	76-01-20	280	89	86	16	79	2.1	5.7	234	--
11N 7W 7DB 1	75-10-10	300	67	96	15	32	.8	8.0	286	0
11N 7W 8CC 1	75-10-10	230	0	71	12	28	.8	6.1	289	0
	75-12-02	320	98	99	18	54	1.3	7.0	272	--
	75-12-09	320	100	100	18	55	1.3	7.1	273	--
	75-12-09	320	94	100	18	55	1.3	7.2	280	--
	75-12-10	310	76	97	17	53	1.3	7.3	288	--
	75-12-10	290	57	90	16	48	1.2	7.5	285	--
	75-12-10	250	24	78	13	39	1.1	6.6	273	--
11N 7W 9DA 1	76-01-23	180	13	56	9.0	24	.8	5.6	200	--
11N 7W10BAA 1	76-01-22	570	320	180	29	37	.7	16	308	--
11N 7W27BC 1	76-01-23	150	4	46	8.2	20	.7	4.6	176	--
11N 7W28AA 1	76-01-23	300	37	94	16	10	.3	8.4	321	--
11N 8W12AC 1	75-10-10	370	130	110	23	110	2.5	7.3	292	0
12N 5W23CCC 1	76-05-04	240	41	76	12	27	.8	8.0	242	0
HOLT COUNTY										
28N 9W 4CDDC1	75-12-10	100	16	34	4.3	8.8	.4	3.3	105	0
29N 10W28DA 1	75-12-09	44	20	14	2.1	5.0	.3	2.2	29	0
29N 11W 8DC 1	75-12-08	290	210	89	17	14	.4	6.5	103	0
29N 12W 3DD 2	75-12-09	180	120	55	9.9	15	.5	5.3	74	0
29N 12W11DD 1	75-12-09	130	27	42	6.3	8.4	.3	4.9	127	0
29N 12W14DA 1	75-12-09	91	33	32	2.8	9.2	.4	7.2	71	0
30N 10W24DD 2	75-12-10	170	140	52	8.7	24	.8	20	31	0
30N 11W16CAAA1	75-12-08	91	13	30	3.8	7.9	.4	4.8	95	0
30N 12W23BA 1	75-12-09	86	7	29	3.4	7.6	.4	4.3	97	0
30N 13W13CD 1	75-12-09	120	27	42	4.1	7.3	.3	5.0	116	0
30N 14W23AA 2	75-12-09	120	48	39	4.8	10	.4	6.1	84	0
31N 11W11AC 1	75-12-08	450	120	130	30	52	1.1	17	404	0
31N 12W318A 1	75-12-09	140	0	45	6.3	7.5	.3	5.8	183	0
31N 12W35AB 1	75-12-09	110	12	39	3.9	5.6	.2	3.8	124	0
JEFFERSON COUNTY										
4N 1E31AA 1	76-05-14	24	0	4.2	3.2	19	1.7	5.2	80	0
4N 3E13DA 1	76-05-06	120	0	33	9.4	14	.6	5.2	155	0
KEYA PAHA COUNTY										
33N 21W 8DA 2	75-12-10	92	0	31	3.5	3.1	.1	5.1	119	0
33N 21W10DC 1	75-12-10	110	0	36	4.6	6.1	.3	10	135	0
KNOX COUNTY										
29N 8W32AAA 1	75-12-10	230	3	78	9.5	20	.6	6.7	282	0
LANCASTER COUNTY										
10N 6E36CDD 1	76-04-15	190	0	51	14	39	1.2	4.8	234	0
MERRICK COUNTY										
13N 6W 9AC 1	76-07-20	350	110	100	24	45	1.1	10	288	0
13N 7W 5CB 1	76-07-20	160	72	49	9.7	13	.4	6.8	110	0
13N 7W27BC 1	76-07-20	480	160	140	32	63	1.3	37	393	0
14N 5W 18AB 1	76-07-20	400	100	110	31	67	1.5	15	369	0
14N 6W 5DA 1	76-07-20	140	90	47	6.5	6.7	.2	4.6	66	0
16N 3W29DC 1	76-07-20	290	0	84	20	54	1.4	23	397	0

LOCAL IDENT- I- FIER	DATE OF SAMPLE	ALKA- LITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NITRATE (N) (MG/L) (00620)
HAMILTON COUNTY										
9N 7W 6DAD 2	76-03-18	199	100	13	.4	29	--	396	.54	--
	76-06-02	--	--	--	--	--	1180	--	--	1.5
10N 6W 4CB 1	76-03-18	170	37	9.8	.4	27	--	276	.38	--
	76-06-02	--	--	--	--	--	275	--	--	1.4
	76-09-27	60	72	15	.9	10	--	200	.27	--
10N 6W268C 1	76-04-30	206	24	18	.3	24	320	332	.44	--
11N 7W 2DD 1	76-01-22	278	160	9.7	--	--	--	--	--	--
11N 7W 3CC 1	76-09-03	229	440	25	--	--	--	--	--	--
11N 7W 3CCA 1	76-01-20	201	120	7.4	--	--	--	--	--	--
11N 7W 3CCC 1	76-01-20	217	160	6.9	--	--	--	--	--	--
11N 7W 4DD 1	76-01-22	203	110	6.8	--	--	--	--	--	--
	76-09-14	235	810	39	--	--	--	--	--	--
11N 7W 6CC 1	76-09-03	178	210	26	--	--	--	--	--	--
11N 7W 6CDD 1	76-01-20	354	30	5.9	--	--	--	--	--	--
11N 7W 7BA 1	75-10-10	366	150	15	.6	23	--	670	.91	--
	75-12-04	231	200	18	.4	24	--	576	.78	--
	75-12-05	229	200	18	.4	24	--	578	.79	--
	75-12-05	224	190	18	.4	24	--	554	.75	--
11N 7W 7BBB 1	76-01-20	192	230	27	--	--	--	--	--	--
11N 7W 7DB 1	75-10-10	235	130	6.0	.4	28	--	468	.64	--
11N 7W 8CC 1	75-10-10	237	53	6.1	.4	28	--	356	.48	--
	75-12-02	223	190	18	.4	24	--	552	.75	--
	75-12-09	224	190	18	.4	25	--	556	.76	--
	75-12-09	230	190	18	.4	25	--	560	.76	--
	75-12-10	236	170	16	.4	26	--	538	.73	--
	75-12-10	234	140	14	.4	27	--	491	.67	--
	75-12-10	224	100	10	.4	28	--	416	.57	--
11N 7W 9DA 1	76-01-23	164	63	7.2	--	--	--	--	--	--
11N 7W108AA 1	76-01-22	253	300	10	--	--	--	--	--	--
11N 7W278C 1	76-01-23	144	40	6.9	--	--	--	--	--	--
11N 7W28AA 1	76-01-23	263	43	10	--	--	--	--	--	--
11N 8W12AC 1	75-10-10	240	340	33	.5	22	--	791	1.08	--
12N 5W23CCC 1	76-05-04	198	74	13	.4	30	364	371	.50	--
HOLT COUNTY										
28N 9W 4CDCC1	75-12-10	86	7.7	.7	.2	43	--	184	.25	--
29N 10W280A 1	75-12-09	24	9.4	1.6	.1	25	--	94	.13	--
29N 11W 8DC 1	75-12-08	84	29	46	.1	25	--	464	.63	--
29N 12W 3DD 2	75-12-09	61	25	19	.1	25	--	312	.42	--
29N 12W11DD 1	75-12-09	104	7.9	4.0	.4	47	--	227	.31	--
29N 12W14DA 1	75-12-09	58	22	5.5	.1	22	--	176	.24	--
30N 10W24DD 2	75-12-10	25	13	77	.0	23	--	344	.47	--
30N 11W16CAA1	75-12-08	78	7.6	.9	.2	52	--	183	.25	--
30N 12W23BA 1	75-12-09	80	9.2	6.9	.2	46	--	178	.24	--
30N 13W13CD 1	75-12-09	95	6.8	1.9	.2	59	--	227	.31	--
30N 14W23AA 2	75-12-09	69	14	4.7	.2	34	--	206	.28	--
31N 11W11AC 1	75-12-08	331	230	26	.5	14	--	706	.96	--
31N 12W318A 1	75-12-09	150	2.7	1.6	.2	58	--	227	.31	--
31N 12W35AB 1	75-12-09	102	7.0	1.0	.1	38	--	179	.24	--
JEFFERSON COUNTY										
4N 1E31AA 1	76-05-14	66	.8	3.2	.1	.6	65	76	.09	--
4N 3E13DA 1	76-05-06	127	14	13	.1	21	179	189	.24	--
KEYA PAHA COUNTY										
33N 21W 8DA 2	75-12-10	98	1.8	1.5	.1	15	--	124	.17	--
33N 21W10DC 1	75-12-10	111	4.3	1.0	.3	60	--	208	.28	--
KNOX COUNTY										
29N 8W32AAA 1	75-12-10	231	9.2	3.9	.3	56	--	360	.49	--
LANCASTER COUNTY										
10N 6E36CDD 1	76-04-15	192	51	14	.3	25	326	336	.44	--
MERRICK COUNTY										
13N 6W 9AC 1	76-07-20	236	170	24	.5	29	--	551	.75	--
13N 7W 5CB 1	76-07-20	90	40	6.9	.2	33	--	288	.39	--
13N 7W278C 1	76-07-20	322	190	40	.8	25	--	758	1.03	--
14N 5W 18AB 1	76-07-20	303	170	37	1.3	15	--	663	.90	--
14N 6W 5DA 1	76-07-20	54	25	11	.2	32	--	250	.34	--
16N 3W29DC 1	76-07-20	326	68	16	.6	23	--	524	.71	--

LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED NITRATE (N) (MG/L) (00618)	TOTAL NITRITE (N) (MG/L) (00615)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)
HAMILTON COUNTY										
9N 7W 6DAD 2	76-03-18	--	--	--	--	1.8	--	--	--	--
10N 6W 4CB 1	76-06-02	--	.01	--	1.5	--	.30	.03	.33	1.8
	76-03-18	--	--	--	--	1.6	--	--	--	--
	76-06-02	--	.00	--	1.4	--	.01	.02	.03	1.4
	76-09-27	--	--	--	--	.45	--	--	--	--
10N 6W26BC 1	76-04-30	7.0	--	.00	7.0	7.0	1.4	1.5	2.9	9.9
11N 7W 2DD 1	76-01-22	--	--	--	--	9.7	--	--	--	--
11N 7W 3CC 1	76-09-03	--	--	--	--	160	--	--	--	--
11N 7W 3CCA 1	76-01-20	--	--	--	--	5.9	--	--	--	--
11N 7W 3CCC 1	76-01-20	--	--	--	--	8.7	--	--	--	--
11N 7W 4DD 1	76-01-22	--	--	--	--	9.2	--	--	--	--
11N 7W 6CC 1	76-09-14	--	--	--	--	260	--	--	--	--
	76-09-03	--	--	--	--	.69	--	--	--	--
11N 7W 6CDD 1	76-01-20	--	--	--	--	5.0	--	--	--	--
11N 7W 7BA 1	75-10-10	--	--	--	--	8.0	--	--	--	--
	75-12-04	--	--	--	--	1.6	--	--	--	--
	75-12-05	--	--	--	--	1.6	--	--	--	--
	75-12-05	--	--	--	--	1.7	--	--	--	--
11N 7W 7BBB 1	76-01-20	--	--	--	--	.57	--	--	--	--
11N 7W 7DB 1	75-10-10	--	--	--	--	2.7	--	--	--	--
11N 7W 8CC 1	75-10-10	--	--	--	--	1.9	--	--	--	--
	75-12-02	--	--	--	--	1.7	--	--	--	--
	75-12-09	--	--	--	--	1.8	--	--	--	--
	75-12-09	--	--	--	--	1.9	--	--	--	--
11N 7W 9DA 1	75-12-10	--	--	--	--	2.0	--	--	--	--
	75-12-10	--	--	--	--	1.8	--	--	--	--
	75-12-10	--	--	--	--	1.5	--	--	--	--
	76-01-23	--	--	--	--	.70	--	--	--	--
11N 7W10BAA 1	76-01-22	--	--	--	--	28	--	--	--	--
11N 7W27BC 1	76-01-23	--	--	--	--	.45	--	--	--	--
11N 7W28AA 1	76-01-23	--	--	--	--	7.2	--	--	--	--
11N 8W12AC 1	75-10-10	--	--	--	--	.31	--	--	--	--
12N 5W23CCC 1	76-05-04	1.5	--	.00	1.7	1.5	.35	.52	.87	2.6
HOLT COUNTY										
28N 9W 4CDCC1	75-12-10	--	--	--	--	6.8	--	--	--	--
29N 10W28DA 1	75-12-09	--	--	--	--	4.6	--	--	--	--
29N 11W 8DC 1	75-12-08	--	--	--	--	42	--	--	--	--
29N 12W 3DD 2	75-12-09	--	--	--	--	27	--	--	--	--
29N 12W11DD 1	75-12-09	--	--	--	--	9.8	--	--	--	--
29N 12W14DA 1	75-12-09	--	--	--	--	8.9	--	--	--	--
30N 10W24DD 2	75-12-10	--	--	--	--	25	--	--	--	--
30N 11W16CAAA1	75-12-08	--	--	--	--	6.5	--	--	--	--
30N 12W23BA 1	75-12-09	--	--	--	--	5.1	--	--	--	--
30N 13W13CD 1	75-12-09	--	--	--	--	9.8	--	--	--	--
30N 14W23AA 2	75-12-09	--	--	--	--	11	--	--	--	--
31N 11W11AC 1	75-12-08	--	--	--	--	.57	--	--	--	--
31N 12W31BA 1	75-12-09	--	--	--	--	2.1	--	--	--	--
31N 12W35AB 1	75-12-09	--	--	--	--	4.1	--	--	--	--
JEFFERSON COUNTY										
4N 1E31AA 1	76-05-14	.01	--	.00	.01	.01	.01	.04	.05	.06
4N 3E13DA 1	76-05-06	.46	--	.00	.47	.46	.02	.13	.15	.62
KEYA PAHA COUNTY										
33N 21W 8DA 2	75-12-10	--	--	--	--	.81	--	--	--	--
33N 21W10DC 1	75-12-10	--	--	--	--	4.4	--	--	--	--
KNOX COUNTY										
29N 8W32AAA 1	75-12-10	--	--	--	--	8.4	--	--	--	--
LANCASTER COUNTY										
10N 6E36CDD 1	76-04-15	4.6	--	.00	--	4.6	.03	.08	.11	--
MERRICK COUNTY										
13N 6W 9AC 1	76-07-20	--	--	--	--	1.3	--	--	--	--
13N 7W 5CB 1	76-07-20	--	--	--	--	17	--	--	--	--
13N 7W27BC 1	76-07-20	--	--	--	--	8.2	--	--	--	--
14N 5W 1BAA 1	76-07-20	--	--	--	--	7.7	--	--	--	--
14N 6W 5DA 1	76-07-20	--	--	--	--	19	--	--	--	--
16N 3W29DC 1	76-07-20	--	--	--	--	9.0	--	--	--	--

LOCAL IDENT- IFIER	DATE OF SAMPLE	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BERYL- LIUM (BE) (UG/L) (01010)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
HAMILTON COUNTY										
9N 7W 6DAD 2	76-03-18	--	.22	--	--	--	--	40	--	--
	76-06-02	.23	.23	10	6	200	0	--	2	10
10N 6W 4CB 1	76-03-18	--	.22	--	--	--	--	30	--	--
	76-06-02	.23	.22	10	3	100	0	--	0	<10
	76-09-27	--	.00	--	--	--	--	20	--	--
10N 6W26BC 1	76-04-30	.61	.03	0	0	300	0	660	1	0
11N 7W 2DD 1	76-01-22	--	--	--	--	--	--	--	--	--
11N 7W 3CC 1	76-09-03	--	--	--	--	--	--	--	--	--
11N 7W 3CCA 1	76-01-20	--	--	--	--	--	--	--	--	--
11N 7W 3CCC 1	76-01-20	--	--	--	--	--	--	--	--	--
11N 7W 4DD 1	76-01-22	--	--	--	--	--	--	--	--	--
11N 7W 6CC 1	76-09-14	--	--	--	--	--	--	--	--	--
11N 7W 6CC 1	76-09-03	--	--	--	--	--	--	--	--	--
11N 7W 6CDD 1	76-01-20	--	--	--	--	--	--	--	--	--
11N 7W 7BA 1	75-10-10	--	.16	--	--	--	--	60	--	--
	75-12-04	--	.05	--	--	--	--	40	--	--
	75-12-05	--	.08	--	--	--	--	50	--	--
	75-12-05	--	.21	--	--	--	--	40	--	--
11N 7W 7BBB 1	76-01-20	--	--	--	--	--	--	--	--	--
11N 7W 7DB 1	75-10-10	--	.21	--	--	--	--	40	--	--
11N 7W 8CC 1	75-10-10	--	.20	--	--	--	--	40	--	--
	75-12-02	--	.10	--	--	--	--	50	--	--
	75-12-09	--	.09	--	--	--	--	40	--	--
	75-12-09	--	.10	--	--	--	--	40	--	--
	75-12-10	--	.09	--	--	--	--	40	--	--
	75-12-10	--	.10	--	--	--	--	40	--	--
	75-12-10	--	.08	--	--	--	--	40	--	--
11N 7W 9DA 1	76-01-23	--	--	--	--	--	--	--	--	--
11N 7W108AA 1	76-01-22	--	--	--	--	--	--	--	--	--
11N 7W278C 1	76-01-23	--	--	--	--	--	--	--	--	--
11N 7W28AA 1	76-01-23	--	--	--	--	--	--	--	--	--
11N 8W12AC 1	75-10-10	--	.11	--	--	--	--	110	--	--
12N 5W23CCC 1	76-05-04	.28	.06	0	2	300	0	80	0	0
HOLT COUNTY										
28N 9W 4CDCC1	75-12-10	--	.21	--	--	--	--	6	--	--
29N 10W28DA 1	75-12-09	--	.11	--	--	--	--	0	--	--
29N 11W 8DC 1	75-12-08	--	.02	--	--	--	--	20	--	--
29N 12W 3DD 2	75-12-09	--	.05	--	--	--	--	20	--	--
29N 12W11DD 1	75-12-09	--	.03	--	--	--	--	20	--	--
29N 12W14DA 1	75-12-09	--	.04	--	--	--	--	10	--	--
30N 10W24DD 2	75-12-10	--	.02	--	--	--	--	10	--	--
30N 11W16CAA1	75-12-08	--	.06	--	--	--	--	20	--	--
30N 12W23BA 1	75-12-09	--	.03	--	--	--	--	20	--	--
30N 13W13CD 1	75-12-09	--	.05	--	--	--	--	20	--	--
30N 14W23AA 2	75-12-09	--	.04	--	--	--	--	6	--	--
31N 11W11AC 1	75-12-08	--	.01	--	--	--	--	470	--	--
31N 12W31BA 1	75-12-09	--	.02	--	--	--	--	10	--	--
31N 12W35AB 1	75-12-09	--	.09	--	--	--	--	6	--	--
JEFFERSON COUNTY										
4N 1E31AA 1	76-05-14	.02	.01	10	0	0	0	0	0	<10
4N 3E13DA 1	76-05-06	.17	.08	0	1	400	0	35	1	0
KEYA PAHA COUNTY										
33N 21W 8DA 2	75-12-10	--	.06	--	--	--	--	2	--	--
33N 21W10DC 1	75-12-10	--	.12	--	--	--	--	6	--	--
KNOX COUNTY										
29N 8W32AAA 1	75-12-10	--	.05	--	--	--	--	30	--	--
LANCASTER COUNTY										
10N 6E36CDD 1	76-04-15	.07	.07	0	0	100	0	490	1	0
MERRICK COUNTY										
13N 6W 9AC 1	76-07-20	--	.05	--	--	--	--	220	--	--
13N 7W 5CB 1	76-07-20	--	.15	--	--	--	--	30	--	--
13N 7W27BC 1	76-07-20	--	.36	--	--	--	--	90	--	--
14N 5W 18AB 1	76-07-20	--	.04	--	--	--	--	640	--	--
14N 6W 5DA 1	76-07-20	--	.14	--	--	--	--	20	--	--
16N 3W29DC 1	76-07-20	--	.14	--	--	--	--	70	--	--

LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L) (01060)	DIS- SOLVED NICKEL (NI) (UG/L) (01065)
HAMILTON COUNTY										
9N 7W 6DAD 2	76-03-18	--	4	20	--	--	1100	--	--	--
	76-06-02	0	30	--	7	10	--	<.5	4	7
10N 6W 4CB 1	76-03-18	--	3	20	--	--	10	--	--	--
	76-06-02	0	30	--	5	10	--	<.5	3	4
	76-09-27	--	--	10	--	--	0	--	--	--
10N 6W26BC 1	76-04-30	2	10	990	1	10	500	.0	3	4
11N 7W 2DD 1	76-01-22	--	--	10	--	--	0	--	--	--
11N 7W 3CC 1	76-09-03	--	--	20	--	--	60	--	--	--
11N 7W 3CCA 1	76-01-20	--	--	10	--	--	0	--	--	--
11N 7W 3CCC 1	76-01-20	--	--	10	--	--	10	--	--	--
11N 7W 4DD 1	76-01-22	--	--	10	--	--	10	--	--	--
	76-09-14	--	--	10	--	--	30	--	--	--
11N 7W 6CC 1	75-09-03	--	--	60	--	--	130	--	--	--
11N 7W 6CDD 1	76-01-20	--	--	10	--	--	0	--	--	--
11N 7W 7BA 1	75-10-10	--	--	0	--	--	10	--	--	--
	75-12-04	--	--	20	--	--	0	--	--	--
	75-12-05	--	--	10	--	--	0	--	--	--
	75-12-05	--	--	0	--	--	20	--	--	--
11N 7W 7BBB 1	76-01-20	--	--	20	--	--	0	--	--	--
11N 7W 7DB 1	75-10-10	--	--	0	--	--	10	--	--	--
11N 7W 8CC 1	75-10-10	--	--	10	--	--	10	--	--	--
	75-12-02	--	--	20	--	--	0	--	--	--
	75-12-09	--	--	50	--	--	0	--	--	--
	75-12-09	--	--	20	--	--	0	--	--	--
	75-12-10	--	--	10	--	--	0	--	--	--
	75-12-10	--	--	10	--	--	0	--	--	--
	75-12-10	--	--	10	--	--	0	--	--	--
11N 7W 9DA 1	76-01-23	--	--	20	--	--	0	--	--	--
11N 7W108AA 1	76-01-22	--	--	30	--	--	0	--	--	--
11N 7W27BC 1	76-01-23	--	--	10	--	--	0	--	--	--
11N 7W28AA 1	76-01-23	--	--	20	--	--	0	--	--	--
11N 8W12AC 1	75-10-10	--	--	0	--	--	160	--	--	--
12N 5W23CCC 1	76-05-04	0	1	3400	2	20	190	.0	2	4
HOLT COUNTY										
28N 9W 4DCCC1	75-12-10	--	0	0	--	--	0	--	--	--
29N 10W28DA 1	75-12-09	--	20	60	--	--	0	--	--	--
29N 11W 8DC 1	75-12-08	--	30	1000	--	--	30	--	--	--
29N 12W 3DD 2	75-12-09	--	3	1800	--	--	10	--	--	--
29N 12W11DD 1	75-12-09	--	110	70	--	--	0	--	--	--
29N 12W14DA 1	75-12-09	--	160	20	--	--	10	--	--	--
30N 10W24DD 2	75-12-10	--	30	30	--	--	40	--	--	--
30N 11W16CAAA1	75-12-08	--	3	10	--	--	0	--	--	--
30N 12W23BA 1	75-12-09	--	20	540	--	--	0	--	--	--
30N 13W13CD 1	75-12-09	--	1	10	--	--	0	--	--	--
30N 14W23AA 2	75-12-09	--	4	1400	--	--	20	--	--	--
31N 11W11AC 1	75-12-08	--	20	1800	--	--	310	--	--	--
31N 12W31BA 1	75-12-09	--	40	30	--	--	10	--	--	--
31N 12W35AB 1	75-12-09	--	20	430	--	--	40	--	--	--
JEFFERSON COUNTY										
4N 1E31AA 1	76-05-14	0	0	30	1	0	0	<.5	3	3
4N 3E13DA 1	76-05-06	0	1	360	1	10	50	.0	1	4
KEYA PAHA COUNTY										
33N 21W 8DA 2	75-12-10	--	2	210	--	--	0	--	--	--
33N 21W10DC 1	75-12-10	--	50	20	--	--	0	--	--	--
KNOX COUNTY										
29N 8W32AAA 1	75-12-10	--	20	20	--	--	0	--	--	--
LANCASTER COUNTY										
10N 6E36CDD 1	76-04-15	0	1	40	0	30	20	.0	0	3
MERRICK COUNTY										
13N 6W 9AC 1	76-07-20	--	0	120	--	--	630	--	--	--
13N 7W 5CB 1	76-07-20	--	1	30	--	--	0	--	--	--
13N 7W27BC 1	76-07-20	--	3	30	--	--	230	--	--	--
14N 5W 1BAB 1	76-07-20	--	4	40	--	--	420	--	--	--
14N 6W 5DA 1	76-07-20	--	0	40	--	--	0	--	--	--
16N 3W29DC 1	76-07-20	--	2	20	--	--	210	--	--	--

LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED STRON- TIUM (SR) (UG/L) (01080)	DIS- SOLVED VANA- DIUM (V) (UG/L) (01085)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
HAMILTON COUNTY						
9N 7W 6DAD 2	76-03-18	--	--	--	--	10
	76-06-02	2	0	420	9.2	80
10N 6W 4CB 1	76-03-18	--	--	--	--	0
	76-06-02	4	0	270	5.4	10
	76-09-27	--	--	--	--	--
10N 6W268C 1	76-04-30	5	0	290	2.5	290
11N 7W 2DD 1	76-01-22	--	--	--	--	--
11N 7W 3CC 1	76-09-03	--	--	--	--	--
11N 7W 3CCA 1	76-01-20	--	--	--	--	--
11N 7W 3CCC 1	76-01-20	--	--	--	--	--
11N 7W 4DD 1	76-01-22	--	--	--	--	--
	76-09-14	--	--	--	--	--
11N 7W 6CC 1	76-09-03	--	--	--	--	--
11N 7W 6CDD 1	76-01-20	--	--	--	--	--
11N 7W 7BA 1	75-10-10	--	--	--	--	--
	75-12-04	--	--	--	--	--
	75-12-05	--	--	--	--	--
	75-12-05	--	--	--	--	--
11N 7W 788B 1	76-01-20	--	--	--	--	--
11N 7W 7DB 1	75-10-10	--	--	--	--	--
11N 7W 8CC 1	75-10-10	--	--	--	--	--
	75-12-02	--	--	--	--	--
	75-12-09	--	--	--	--	--
	75-12-09	--	--	--	--	--
	75-12-10	--	--	--	--	--
	75-12-10	--	--	--	--	--
	75-12-10	--	--	--	--	--
11N 7W 9DA 1	76-01-23	--	--	--	--	--
11N 7W108AA 1	76-01-22	--	--	--	--	--
11N 7W278C 1	76-01-23	--	--	--	--	--
11N 7W28AA 1	76-01-23	--	--	--	--	--
11N 8W12AC 1	75-10-10	--	--	--	--	--
12N 5W23CCC 1	76-05-04	5	0	380	7.0	50
HOLT COUNTY						
28N 9W 4COCC1	75-12-10	--	--	--	--	30
29N 10W28DA 1	75-12-09	--	--	--	--	30
29N 11W 8DC 1	75-12-08	--	--	--	--	70
29N 12W 3DD 2	75-12-09	--	--	--	--	170
29N 12W11DD 1	75-12-09	--	--	--	--	70
29N 12W14DA 1	75-12-09	--	--	--	--	170
30N 10W24DD 2	75-12-10	--	--	--	--	90
30N 11W16CAAA1	75-12-08	--	--	--	--	240
30N 12W23BA 1	75-12-09	--	--	--	--	120
30N 13W13CD 1	75-12-09	--	--	--	--	20
30N 14W23AA 2	75-12-09	--	--	--	--	1600
31N 11W11AC 1	75-12-08	--	--	--	--	2100
31N 12W318A 1	75-12-09	--	--	--	--	20
31N 12W35AB 1	75-12-09	--	--	--	--	770
JEFFERSON COUNTY						
4N 1E31AA 1	76-05-14	0	2	50	.0	0
4N 3E13DA 1	76-05-06	2	0	220	3.5	10
KEYA PAHA COUNTY						
33N 21W 8DA 2	75-12-10	--	--	--	--	130
33N 21W10DC 1	75-12-10	--	--	--	--	80
KNOX COUNTY						
29N 8W32AAA 1	75-12-10	--	--	--	--	100
LANCASTER COUNTY						
10N 6E36CDD 1	76-04-15	2	0	200	.0	10
MERRICK COUNTY						
13N 6W 9AC 1	76-07-20	--	--	--	--	0
13N 7W 5CB 1	76-07-20	--	--	--	--	0
13N 7W278C 1	76-07-20	--	--	--	--	0
14N 5W 18AB 1	76-07-20	--	--	--	--	20
14N 6W 5DA 1	76-07-20	--	--	--	--	0
16N 3W29DC 1	76-07-20	--	--	--	--	0

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

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LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT) (72008)	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)
PERKINS COUNTY										
12N 38W31CCCC2	40 57 38	101 42 32	02	123CDRN8	557	76-03-18	--	--	--	--
POLK COUNTY										
13N 4W21CCD 2	41 04 34	097 47 11	02	112SDGV	150	76-03-17	650	7.5	13.0	0
				112SDGV	150	76-06-01	617	7.1	14.0	--
14N 1W 9DAC 1	41 11 45	097 25 46	01	112SDGV	270	76-03-17	505	7.6	12.5	1
				112SDGV	270	76-06-01	508	7.0	13.5	--
SALINE COUNTY										
8N 3E19ADA 1	40 38 55	097 07 25	01	112SDGV	151	76-04-16	--	6.7	14.0	0
8N 3E20BAD 1	40 39 02	097 06 49	01	112SDGV	190	76-03-17	535	7.2	12.5	0
				112SDGV	190	76-06-03	536	7.6	14.0	--
SAUNDERS COUNTY										
14N 8E24ACD 2	41 10 05	096 28 15	02	112SDGV	80	76-04-22	--	7.1	13.0	1
SEWARD COUNTY										
11N 1E29BC 1	40 53 30	097 20 48	01	112SDGV	254	76-03-17	581	7.3	13.0	15
				112SDGV	254	76-06-01	617	6.8	13.5	--
11N 2E21DD 1	40 54 06	097 11 50	01	112SDGV	123	76-04-15	--	6.8	14.0	0
11N 2E26AD 6	40 53 43	097 09 39	06	112SDGV	117	76-03-17	623	7.2	12.0	0
				112SDGV	117	76-06-01	628	7.0	13.0	--
THAYER COUNTY										
3N 4W 2AA 1	40 15 37	097 43 41	01	112SDGV	195	76-05-14	--	6.6	13.0	1
YORK COUNTY										
9N 4W 6AC 1	40 46 46	097 48 51	01	112SDGV	171	76-03-18	519	7.4	12.0	0
				112SDGV	171	76-06-02	510	7.1	14.5	--
9N 4W 6DD 1	40 46 20	097 48 25	01	112SDGV	171	76-04-28	--	6.9	13.5	0
11N 2W31BA 3	40 53 05	097 35 15	03	112SDGV	165	76-04-30	--	6.9	13.5	0
11N 2W31CA 1	40 52 42	097 35 24	01	112SDGV	138	76-03-17	608	7.4	10.0	1
				112SDGV	138	76-06-01	598	7.1	14.0	--
12N 1W11BC 2	41 01 37	097 24 13	02	112SDGV	156	76-03-17	600	7.6	12.0	1
				112SDGV	156	76-06-01	624	7.1	14.0	--

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (CA,MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)
PERKINS COUNTY										
12N 38W31CCCC2	76-03-18	--	--	--	--	89	--	--	180	0
POLK COUNTY										
13N 4W21CCD 2	76-03-17	270	0	86	14	29	.8	7.7	365	0
	76-06-01	270	--	84	14	26	.7	6.5	--	--
14N 1W 9DAC 1	76-03-17	210	0	66	11	20	.6	7.7	267	0
	76-06-01	220	--	68	11	19	.6	7.0	--	--
SALINE COUNTY										
8N 3E19ADA 1	76-04-16	190	0	56	11	31	1.0	4.7	240	0
8N 3E208AD 1	76-03-17	220	0	71	11	24	.7	5.0	280	0
	76-06-03	230	--	72	11	24	.7	4.5	--	--
SAUNDERS COUNTY										
14N 8E24ACD 2	76-04-22	190	0	54	14	16	.5	9.4	235	0
SEWARD COUNTY										
11N 1E29BC 1	76-03-17	230	2	73	12	31	.9	5.4	280	0
	76-06-01	240	--	74	13	30	.8	5.1	--	--
11N 2E21DD 1	76-04-15	220	0	70	11	26	.8	8.4	275	0
11N 2E26AD 6	76-03-17	230	27	74	11	38	1.1	7.6	248	0
	76-06-01	240	--	76	13	37	1.0	6.8	--	--
THAYER COUNTY										
3N 4W 2AA 1	76-05-14	110	8	35	5.8	13	.5	4.2	126	0
YORK COUNTY										
9N 4W 6AC 1	76-03-18	220	14	70	10	22	.7	6.1	246	0
	76-06-02	210	--	66	11	22	.7	5.2	--	--
9N 4W 6DD 1	76-04-28	190	8	58	9.6	22	.7	5.4	216	0
11N 2W31BA 3	76-04-30	240	0	76	13	28	.8	7.1	314	0
11N 2W31CA 1	76-03-17	250	14	77	13	30	.8	6.8	283	0
	76-06-01	230	--	70	14	36	1.0	6.8	--	--
12N 1W118C 2	76-03-17	260	0	83	13	27	.7	6.3	339	0
	76-06-01	280	--	90	14	23	.6	5.5	--	--

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

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LOCAL IDENT- IFIER	DATE OF SAMPLE	ALKA- LINITY AS CACO3 (MG/L) (00410)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED SILICA (SiO2) (MG/L) (00955)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NITRATE (N) (MG/L) (00620)
PERKINS COUNTY										
12N 38W31CCCC2	76-03-18	148	130	51	1.4	--	--	--	--	--
POLK COUNTY										
13N 4W21CCD 2	76-03-17	299	24	9.8	.3	36	--	409	.56	--
	76-06-01	--	--	--	--	--	385	--	--	3.8
14N 1W 9DAC 1	76-03-17	219	20	6.8	.2	40	--	323	.44	--
	76-06-01	--	--	--	--	--	317	--	--	3.3
SALINE COUNTY										
8N 3E19ADA 1	76-04-16	197	56	4.7	.2	37	336	332	.46	--
8N 3E20BAD 1	76-03-17	230	34	9.3	.3	31	--	325	.44	--
	76-06-03	--	--	--	--	--	327	--	--	.03
SAUNDERS COUNTY										
14N 8E24ACD 2	76-04-22	193	27	1.4	.6	44	285	291	.39	--
SEWARD COUNTY										
11N 1E29BC 1	76-03-17	230	26	12	.4	36	--	378	.51	--
	76-06-01	--	--	--	--	--	368	--	--	7.6
11N 2E21DD 1	76-04-15	226	44	3.9	.3	33	346	351	.47	--
11N 2E26AD 6	76-03-17	203	86	5.6	.3	34	--	416	.57	--
	76-06-01	--	--	--	--	--	428	--	--	7.7
THAYER COUNTY										
3N 4W 2AA 1	76-05-14	103	17	8.0	.2	36	190	201	.26	--
YORK COUNTY										
9N 4W 6AC 1	76-03-18	202	32	17	.4	32	--	323	.44	--
	76-06-02	--	--	--	--	--	321	--	--	2.4
9N 4W 6DD 1	76-04-28	177	49	14	.4	28	277	299	.38	--
11N 2W31BA 3	76-04-30	258	30	10	.3	37	353	369	.48	--
11N 2W31CA 1	76-03-17	232	49	17	.3	36	--	386	.53	--
	76-06-01	--	--	--	--	--	374	--	--	5.8
12N 1W11BC 2	76-03-17	278	14	10	.4	39	--	380	.52	--
	76-06-01	--	--	--	--	--	388	--	--	2.2

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED NITRATE (N) (MG/L) (00618)	TOTAL NITRITE (N) (MG/L) (00615)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) (00625)	TOTAL NITRO- GEN (N) (MG/L) (00600)
PERKINS COUNTY										
12N 38W31CCCC2	76-03-18	--	--	--	--	--	--	--	--	--
POLK COUNTY										
13N 4W21CCD 2	76-03-17	--	--	--	--	5.0	--	--	--	--
	76-06-01	--	.02	--	3.8	3.6	.01	.12	.13	3.9
14N 1W 9DAC 1	76-03-17	--	--	--	--	4.4	--	--	--	--
	76-06-01	--	.03	--	3.3	3.2	.01	.04	.05	3.4
SALINE COUNTY										
8N 3E19ADA 1	76-04-16	2.2	--	.00	2.2	2.2	.03	.00	.03	2.2
8N 3E20BAD 1	76-03-17	--	--	--	--	.14	--	--	--	--
	76-06-03	--	.02	--	.05	.01	.03	.02	.05	.10
SAUNDERS COUNTY										
14N 8E24ACD 2	76-04-22	1.8	--	.00	1.8	1.8	.02	.03	.05	1.9
SEWARD COUNTY										
11N 1E29BC 1	76-03-17	--	--	--	--	9.9	--	--	--	--
	76-06-01	--	.01	--	7.6	7.6	.01	.09	.10	7.7
11N 2E21DD 1	76-04-15	3.8	--	.00	3.8	3.8	.03	.19	.22	4.0
11N 2E26AD 6	76-03-17	--	--	--	--	8.3	--	--	--	--
	76-06-01	--	.03	--	7.7	7.2	.01	.07	.08	7.8
THAYER COUNTY										
3N 4W 2AA 1	76-05-14	4.3	--	.01	4.4	4.3	.01	.00	.01	4.4
YORK COUNTY										
9N 4W 6AC 1	76-03-18	--	--	--	--	2.7	--	--	--	--
	76-06-02	--	.01	--	2.4	--	.01	.12	.13	2.5
9N 4W 6DD 1	76-04-28	1.1	--	.00	1.1	1.1	.03	.08	.11	1.2
11N 2W31BA 3	76-04-30	2.6	--	.00	2.6	2.6	.02	.18	.20	2.8
11N 2W31CA 1	76-03-17	--	--	--	--	4.0	--	--	--	--
	76-06-01	--	.06	--	5.9	5.3	.01	.12	.13	6.0
12N 1W11BC 2	76-03-17	--	--	--	--	4.5	--	--	--	--
	76-06-01	--	.01	--	2.2	2.1	.00	.05	.05	2.3

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

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LOCAL IDENT- IFIER	DATE OF SAMPLE	TOTAL PHOS- PHORUS (P) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (00666)	DIS- SOLVED ALUM- INUM (AL) (01106)	DIS- SOLVED ARSENIC (AS) (01000)	DIS- SOLVED BARIUM (BA) (01005)	DIS- SOLVED BERYL- LIUM (BE) (01010)	DIS- SOLVED BORON (B) (01020)	DIS- SOLVED CAD- MIUM (CD) (01025)	DIS- SOLVED CHRO- MIUM (CR) (01030)
PERKINS COUNTY										
12N 38W31CCCC2	76-03-18	--	--	--	--	--	--	300	--	--
POLK COUNTY										
13N 4W21CCD 2	76-03-17	--	.40	--	--	--	--	40	--	--
	76-06-01	.45	.37	0	5	200	0	--	0	10
14N 1W 9DAC 1	76-03-17	--	.39	--	--	--	--	40	--	--
	76-06-01	.36	.36	0	8	200	0	--	0	10
SALINE COUNTY										
8N 3E19ADA 1	76-04-16	.33	.23	30	3	100	0	230	3	90
8N 3E20BAD 1	76-03-17	--	.13	--	--	--	--	50	--	--
	76-06-03	.15	.12	10	3	100	0	--	0	<10
SAUNDERS COUNTY										
14N 8E24ACD 2	76-04-22	.49	.46	0	9	200	0	290	0	0
SEWARD COUNTY										
11N 1E29BC 1	76-03-17	--	.30	--	--	--	--	40	--	--
	76-06-01	.35	.27	0	3	300	0	--	0	10
11N 2E21DD 1	76-04-15	.22	.05	0	3	200	10	780	1	10
11N 2E26AD 6	76-03-17	--	.27	--	--	--	--	40	--	--
	76-06-01	.33	.27	0	2	200	0	--	0	<10
THAYER COUNTY										
3N 4W 2AA 1	76-05-14	.31	.20	10	2	200	0	40	0	<10
YORK COUNTY										
9N 4W 6AC 1	76-03-18	--	.24	--	--	--	--	30	--	--
	76-06-02	.25	--	10	3	200	0	--	1	<10
9N 4W 6DD 1	76-04-28	.23	.23	0	4	300	10	160	1	0
11N 2W31BA 3	76-04-30	.82	.29	0	3	400	0	30	0	0
11N 2W31CA 1	76-03-17	--	.25	--	--	--	--	50	--	--
	76-06-01	.48	.43	0	4	300	0	--	4	10
12N 1W11BC 2	76-03-17	--	.26	--	--	--	--	40	--	--
	76-06-01	.27	.24	0	3	300	0	--	0	10

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L) (01060)	DIS- SOLVED NICKEL (NI) (UG/L) (01065)
PERKINS COUNTY										
12N 38W31CCCC2	76-03-18	--	--	--	--	--	--	--	--	--
POLK COUNTY										
13N 4W21CCD 2	76-03-17	--	4	20	--	--	0	--	--	--
	76-06-01	0	0	--	2	20	--	<.5	2	3
14N 1W 9DAC 1	76-03-17	--	4	20	--	--	0	--	--	--
	76-06-01	0	0	--	2	20	--	<.5	2	4
SALINE COUNTY										
8N 3E19ADA 1	76-04-16	0	7	260	1	10	10	.0	1	3
8N 3E20BAD 1	76-03-17	--	6	30	--	--	510	--	--	--
	76-06-03	0	0	--	2	10	--	<.5	3	3
SAUNDERS COUNTY										
14N 8E24ACD 2	76-04-22	0	2	150	0	20	0	.0	2	4
SEWARD COUNTY										
11N 1E298C 1	76-03-17	--	17	20	--	--	0	--	--	--
	76-06-01	0	260	--	3	10	--	<.5	4	3
11N 2E210D 1	76-04-15	0	3	940	0	20	30	.0	0	3
11N 2E26AD 6	76-03-17	--	6	10	--	--	10	--	--	--
	76-06-01	0	0	--	2	20	--	<.5	2	2
THAYER COUNTY										
3N 4W 2AA 1	76-05-14	0	0	20	2	10	10	<.5	0	3
YORK COUNTY										
9N 4W 6AC 1	76-03-18	--	3	60	--	--	0	--	--	--
	76-06-02	0	0	--	4	10	--	<.5	2	4
9N 4W 6DD 1	76-04-28	0	3	10	3	20	0	.0	1	4
11N 2W31BA 3	76-04-30	0	1	230	2	20	20	.0	2	4
11N 2W31CA 1	76-03-17	--	3	20	--	--	20	--	--	--
	76-06-01	0	0	--	25	20	--	<.5	3	3
12N 1W11BC 2	76-03-17	--	4	10	--	--	0	--	--	--
	76-06-01	0	10	--	2	20	--	<.5	2	3

CHEMICAL ANALYSES OF GROUND WATER IN NEBRASKA

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LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED STRON- TIUM (SR) (UG/L) (01080)	DIS- SOLVED VANA- DIUM (V) (UG/L) (01085)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
PERKINS COUNTY						
12N 38W31CCCC2	76-03-18	--	--	--	--	--
POLK COUNTY						
13N 4W21CCD 2	76-03-17	--	--	--	--	0
	76-06-01	9	0	360	10	0
14N 1W 9DAC 1	76-03-17	--	--	--	--	0
	76-06-01	7	0	350	5.8	10
SALINE COUNTY						
8N 3E19ADA 1	76-04-16	13	0	270	6.3	2000
8N 3E20BAD 1	76-03-17	--	--	--	--	0
	76-06-03	0	0	370	.0	0
SAUNDERS COUNTY						
14N 8E24ACD 2	76-04-22	4	0	200	7.7	0
SEWARD COUNTY						
11N 1E29BC 1	76-03-17	--	--	--	--	0
	76-06-01	7	0	330	9.9	10
11N 2E21DD 1	76-04-15	27	0	290	3.0	110
11N 2E26AD 6	76-03-17	--	--	--	--	0
	76-06-01	22	0	350	.0	0
THAYER COUNTY						
3N 4W 2AA 1	76-05-14	5	0	170	5.5	10
YORK COUNTY						
9N 4W 6AC 1	76-03-18	--	--	--	--	0
	76-06-02	8	0	310	6.7	0
9N 4W 6DD 1	76-04-28	5	0	280	8.0	0
11N 2W31BA 3	76-04-30	10	0	340	8.0	0
11N 2W31CA 1	76-03-17	--	--	--	--	40
	76-06-01	5	0	340	5.5	10
12N 1W11BC 2	76-03-17	--	--	--	--	10
	76-06-01	13	0	370	10	10

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FACTORS FOR CONVERTING ENGLISH UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	*hectares (ha)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	**liters (l)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons (10 ⁶ gal)	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days [(ft ³ /s) · d]	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (l/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (l/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day (mgal/d)	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	tonnes (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

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