1974

Water Resources Data for Nebraska

Part 1. Surface Water Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the Nebraska Department of Water Resources and with other State and Federal agencies

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

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

NOVEMBER

S	M	T	W	T	F	S
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DECEMBER

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1974

JANUARY

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FEBRUARY

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MARCH

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31						

APRIL

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MAY

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JUNE

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JULY

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AUGUST

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18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER

S	M	T	W	T	F	S
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8	9	10	11	12	13	14
15	16	17	18	19	20	21
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Nebraska Department of Water Resources
Nebraska Department of Roads
Big Blue River Compact Administration
Lower Platte South Natural Resources District
Upper Big Blue Natural Resources District
Corps of Engineers, U.S. Army
Bureau of Reclamation, U.S. Department of the Interior

Water resources records, 1974, for Nebraska are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for Nebraska
   Part 1: Surface Water Records

2. Water Resources Data for Nebraska
   Part 2: Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
Room 406, Federal Bldg. U.S. Court House
100 Centenial Mall No.
Lincoln, NE 68508

1975

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PART 1. SURFACE-WATER RECORDS

By G. G. Jamison

INTRODUCTION

The surface-water records for the 1974 water year for gaging stations, partial-record stations, and miscellaneous sites within the State of Nebraska are given in this report. For convenience there are also included records for a few pertinent gaging stations in bordering States. The records in Nebraska were collected and computed by the Water Resources Division of the U.S. Geological Survey, under the direction of K. A. Mac Kichan, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Nebraska.

Through September 30, 1960, the records of discharge and stage of streams and contents and stage of lakes or reservoirs were published in an annual series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Since 1951 there have been 20 volumes in the series; each volume covered an area whose boundaries coincided with those of certain natural drainage areas. The records in Nebraska were contained in Part 6 of that series.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these basic-data reports is limited, primarily for local needs. The discharge and reservoir storage records for 1961-65 were published in a Geological Survey water-supply paper series entitled "Surface Water Supply of the United States 1961-65." The discharge and reservoir storage records for 1966-70 were published in a Geological Survey water-supply paper series entitled "Surface Water Supply of the United States 1966-1970."

COOPERATION

Cooperative agreements between the U.S. Geological Survey and organizations of the State of Nebraska for the systematic collection of streamflow records began in 1931. Organizations that supplied data are acknowledged in station

descriptions. Organizations that assisted in collecting data through cooperative agreements with the Survey are:

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

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 through the Missouri River Basin Program for 18 gaging stations.

The following organizations aided in collecting records:

Central Nebraska Public Power and Irrigation District, Nebraska Public Power District, Loup River Public Power district.

DEFINITION OF TERMS

The terms of streamflow and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System of units (SI) on page 15.

Acre-foot (AC-FT, acre-ft) is the quanity of water required to cover 1 acre to the depth of 1 foot and is equivalent to 43,560 cubic feet , 325,851 gallons, or 1,233 cubic metres.

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, 1.9835 acre-feet, 646,317 gallons, or 2,445 cubic metres, and represents a runoff of 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

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, cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second, 448.8 gallons per minute, or 0.02832 metres per second.

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

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.

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. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

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

Stage-discharge relation is the relation between gage height and the amount of water flowing in a channel, expressed as volume per unit of time.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

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

SPECIAL NETWORKS AND PROGRAMS

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

DOWNSTREAM ORDER AND STATION NUMBERS

Stations are listed in the same downstream order used in the water-supply papers. Records are listed in a downstream direction along the main stem with all stations on a tributary entering above a main-stem station listed before that station. If a tributary enters between two main-stem stations, it is listed between them. A similar order is followed listing stations on first rank, second rank, and other ranks of tributaries. To indicate the rank of any tributary on which a gaging station is situated and the stream to which it is immediately tributary, each indention in the listing of gaging stations in the table of contents of this report represents one rank. This downstream order and system of indention show which gaging stations are on tributaries between any two stations on a main stem and the rank of the tributary on which each gaging station is situated.

As an added means of identification, each gaging station and partial-record station has been assigned a station number. The numbers have been assigned in the same downstream order used in the annual series of water-supply papers. In assigning station numbers, no distinction is

made between partial-record stations and continuous-record gaging stations, so that 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 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 06794500, includes the part number "06" plus a 6-digit station number. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

EXPLANATION OF SURFACE-WATER DATA

Collection and Computation of Data

The base data collected at gaging stations consists 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 a water-stage recorder that gives a continuous graph of the fluctuations (for digital recorders, a tape punched at 15-, 30-,or 60-minute intervals) or from direct readings on a nonrecording gage. 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 on the measurement of stream discharge. (See also SELECTED REFERENCES.) Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

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), 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 being 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 recorder 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. A calendar for the 1974 water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

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." 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. The average discharge for the number of years indictated 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. The maximum discharge (or contents), the maximum gage height, and the minimum daily discharge (or the minimum contents) are given under "EXTREMES." In the first paragraph headed "Current year:" the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds 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 at the same time as the maximum discharge or contents, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and 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."

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 "REVISIONS (WATER YEARS)" 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 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.

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

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily readings of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on the gage readings.

The daily tables for reservoir stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 each day.

The monthly summary is given below the daily table. For stream-gaging stations the line headed "TOTAL" gives the sum of the daily figures; it is the total cubic feet per second per day for the month. 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 of cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or division, if the drainage area includes large noncontributing areas, or if the average rainfall on the

drainage basin is usually less than 20 inches.

For reservoir stations the monthly summary gives the elevation (or gage height) at the end of the month and the change in contents during the month. If elevation or gage height is given in the daily table, the monthly summary gives the contents at the end of the month, rather than the elevation or gage height.

In the yearly summary below the monthly summary, the figures of maximum are the maximum daily discharges for the calendar and water years; likewise, the minimums in this summary are the minimum daily discharges.

For reservoir stations the yearly summary gives the change in contents for the calendar year and for the water year.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can 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, and 1:30 p.m. is 1330.

In a general footnote, introduced by the word "NOTE", certain periods are indicated 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-discharge relation, or of any other unusual condition at the gage 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. Footnotes to reservoir tables may be used to explain the use of new capacity tables or for other special

conditions.

Accuracy of Data

The accuracy of discharge 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 indictated 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.

Publications

Each volume of the 1960 series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States" contains a listing of the numbers of all

water-supply papers in which records of surface-water data were published for the area covered by the individual volumes. Each volume also contains a list of water-supply papers that give detailed information on major floods for the area. A new series of water-supply papers containing surface-water records for the 5-year periods October 1, 1960, to September 30, 1965, and October 1, 1965, to September 30, 1970, also includes lists of annual and special reports published as water-supply papers.

Records through September 1950 for the area covered by this report have been compiled and published in Water-Supply Papers 1309(6A) and 1310(6B); records for October 1950 to September 1960 have been compiled and published in Water-Supply Papers 1729(6A) and 1730(6B). These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station.

Nebraska streamflow records for October 1960 to September 1965 have been published in Water-Supply Papers 1917, 1918, and 1919. Records for October 1965 to September 1970 have been published in Water-Supply Papers 2117, 2118, and 2119. These reports contain values of daily discharge, summaries of monthly and annual discharge, and monthend storage for all records previously published in the annual series of State reports. All records were reexamined and revised where warranted.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Data collected at partial-record stations and at miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a

table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

More detailed information than that published for most of the gaging stations, such as discharge measurements, gage-height records and rating tables, is on file in the district office. Many gaging-station records in Nebraska through 1973 have been analyzed to give several statistical summaries: (1) the number of days in each year that the daily discharge was between selected limits (duration tables); (2) the lowest mean discharge for selected numbers of consecutive days in each year; and (3) the highest mean discharge for selected numbers of consecutive days in each year.

At or near some gaging stations, water-quality records also are collected. Data are obtained on the chemical quality of the stream water, on water temperature, on suspended-sediment concentration, and on the particle-size distribution of suspended sediment and bed material. These data are given in Part 2 of this report. Under the "REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

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, Nebraska 68509.

Records of discharge not published by the Geological Survey were collected in Nebraska at nine sites by Corps of Engineers, U.S. Army. The Office of Water Data Coordination, 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.

SELECTED REFERENCES

Carter, R. W., and Davidian, Jacob, 1968, General procedure for gaging streams: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. A6, 13 p.

Corbett, D. M., and others, 1943, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

FACTORS FOR CONVERTING ENGLISH UNITS TO INTERNATIONAL SYSTEM (SI) UNITS

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 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
Length		
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
Area		
acres	4047	square metres (m^2)
	.4047	hectares (ha)
	.4047	square hectometres (hm^2)
	.004047	square kilometres (km^2)
square miles (mi^2)	2.590	square kilometres (km^2)
Volume		
gallons (gal)	3.785	litres (l)
	3.785	cubic decimetres (dm^3)
	3.785×10^{-3}	cubic metres (m^3)
million gallons (10^6 gal)	3785	cubic metres (m^3)
	3.785×10^{-3}	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-day (ft^3/s-day)	2447	cubic metres (m^3)
	2.447×10^{-3}	cubic hectometres (hm^3)
acre-feet (acre-ft)	1233	cubic metres (m^3)
	1.233×10^{-3}	cubic hectometres (hm^3)
	1.233×10^{-6}	cubic kilometres (km^3)
Flow		
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm^3/s)
	6.309×10^{-5}	cubic metres per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
Mass		
ton(short)	.9072	tonne (t)

WHITE RIVER BASIN

06444000 White River at Crawford, Nebr.

LOCATION.--Lat 42°41'33", long 103°25'03", in W1/2 sec.3, T.31 N., R.52 W., Dawes County, 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.

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.

AVERAGE DISCHARGE.--39 years, 20.2 ft³/s (0.572 m³/s), 14,630 acre-ft/yr (18.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 263 ft³/s (7.45 m³/s) Aug. 23, gage height, 3.59 ft (1.094 m); minimum daily, 9.1 ft³/s (0.26 m³/s) July 16.
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.

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

REVISIONS (WATER YEARS).--WSP 1309: 1931(M), 1942(M). WSP 1729: 1958-59(M). WSP 1917: 1958-59.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	21	21	18	25	23	23	24	21	13	12	14
2	17	22	21	18	25	25	24	25	21	12	12	15
3	17	23	22	18	25	26	28	25	19	12	13	15
4	17	24	21	18	25	25	28	27	18	12	12	14
5	18	26	18	19	25	24	28	26	17	12	13	13
6	18	22	20	18	25	24	27	26	18	11	11	13
7	17	23	20	18	25	24	27	25	19	11	12	13
8	17	23	20	18	25	24	27	25	20	11	13	13
9	18	23	19	17	25	23	26	25	30	10	13	15
10	19	24	20	17	25	23	26	27	24	10	15	12
11	20	24	19	17	24	25	40	30	22	11	16	13
12	20	24	19	17	25	26	38	27	20	10	14	18
13	19	23	19	17	24	25	34	26	19	9.5	14	18
14	19	23	19	25	24	25	31	25	18	9.5	15	15
15	18	22	19	35	24	24	29	25	17	9.9	13	14
16	18	21	18	54	24	24	27	25	17	9.1	13	15
17	18	22	19	136	25	25	27	24	17	10	13	15
18	18	21	19	45	25	26	27	26	16	10	12	15
19	17	22	19	30	24	24	27	26	16	12	12	15
20	17	22	19	30	25	25	29	25	16	11	12	18
21	17	22	19	30	23	25	29	23	15	11	12	19
22	17	22	21	30	23	25	29	22	15	12	12	19
23	17	21	21	25	24	25	28	22	15	10	63	18
24	19	22	22	26	24	26	27	21	17	27	17	17
25	22	21	20	26	23	26	27	21	15	17	14	15
26	20	20	22	26	24	26	28	22	14	14	13	16
27	20	19	20	25	23	26	27	22	13	12	12	16
28	20	25	18	24	23	24	25	22	13	12	12	17
29	20	20	17	25	------	22	25	22	13	13	13	17
30	20	20	17	25	------	23	24	23	13	12	14	18
31	20	------	17	24	------	24	------	21	------	12	13	------
TOTAL	571	667	605	871	681	762	842	755	528	368.0	455	468
MEAN	18.4	22.2	19.5	28.1	24.3	24.6	28.1	24.4	17.6	11.9	14.7	15.5
MAX	22	26	22	136	25	26	40	30	30	27	63	19
MIN	17	19	17	17	23	22	23	21	13	9.1	11	12
AC-FT	1,130	1,320	1,200	1,730	1,350	1,510	1,670	1,500	1,050	730	902	928

CAL YR 1973 TOTAL 7,458.8 MEAN 20.4 MAX 51 MIN 9.1 AC-FT 14,790
WTR YR 1974 TOTAL 7,573.0 MEAN 20.7 MAX 136 MIN 9.1 AC-FT 15,020

PEAK DISCHARGE (BASE, 100 FT³/S)--Jan. 17 (0115) 185 ft³/s (3.11 ft); Aug. 23 (0815) 263 ft³/s (3.59 ft).

06445590 Big Bordeaux Creek near Chadron, Nebr.

LOCATION.--Lat 42°43'30", long 102°55'44", in NW1/4NW1/4 sec.26, T.32 N., R.48 W., Dawes County, 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.

AVERAGE DISCHARGE.--6 years, 0.48 ft³/s (0.0135 m³/s), 348 acre-ft/yr (0.429 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3.6 ft³/s (0.10 m³/s) Apr. 12, gage height, 1.74 ft (0.530 m); maximum gage height recorded, 2.23 ft (0.680 m) Jan. 14, backwater from ice; minimum daily discharge, 0.04 ft³/s (0.001 m³/s) Aug. 6, 20.
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; minimum daily, no flow Dec. 10-16, 1972, Jan. 6-12, 1973.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.41	.37	.55	.40	.55	.85	.55	.92	.60	.20	.07	.10
2	.37	.37	.69	.35	.50	1.0	.60	1.1	.60	.22	.07	.14
3	.37	.56	.69	.30	.50	1.0	.60	1.1	.55	.22	.10	.14
4	.30	1.8	.69	.25	.50	.92	1.0	1.1	.50	.20	.05	.14
5	.32	.55	.65	.25	.50	.92	.60	1.1	.50	.17	.07	.14
6	.32	.32	.75	.30	.50	.92	.60	1.1	.50	.17	.04	.14
7	.32	.32	.80	.30	.45	.92	.73	1.1	.46	.17	.07	.14
8	.30	.32	.73	.25	.45	.92	.69	1.1	.50	.17	.12	.14
9	.30	.32	.60	.25	.45	.85	.64	1.0	.64	.17	.14	.14
10	.32	.37	.50	.20	.46	.85	.69	1.0	.55	.17	.17	.14
11	.37	.37	.52	.25	.45	1.1	1.1	.85	.50	.14	.14	.14
12	.37	.37	.55	.25	.46	.92	1.7	.73	.50	.14	.10	.20
13	.32	.32	.55	.30	.41	.92	.78	.69	.50	.14	.14	.17
14	.32	.32	.55	.30	.41	.92	.85	.64	.50	.14	.17	.17
15	.32	.32	.55	.40	.41	1.0	.85	.60	.50	.14	.10	.17
16	.30	.32	.55	.40	.41	.92	.78	.60	.50	.12	.10	.17
17	.30	.32	.55	.50	.41	.92	.78	.60	.46	.14	.10	.14
18	.30	.32	.50	.64	.46	.92	.78	.60	.46	.14	.05	.14
19	.30	.37	.50	.64	.50	.92	.73	.60	.41	.20	.05	.14
20	.27	.40	.45	.64	.50	.85	.85	.60	.41	.17	.04	.17
21	.27	.40	.50	.60	.45	.75	1.0	.60	.37	.14	.05	.17
22	.27	.50	.60	.64	.50	.60	1.0	.60	.37	.12	.07	.17
23	.27	.55	.60	.73	.45	.60	.92	.60	.32	.07	.10	.17
24	.30	.55	.60	.69	.40	.60	.92	.60	.32	.10	.07	.17
25	.30	.50	.50	.64	.50	.55	.92	.60	.27	.12	.05	.17
26	.30	.50	.40	.55	.55	.55	.92	.60	.27	.12	.05	.20
27	.30	.50	.45	.55	.60	.55	.92	.60	.27	.07	.05	.20
28	.32	.50	.45	.55	.65	.55	.85	.60	.24	.05	.05	.20
29	.32	.50	.40	.55	------	.55	.85	.60	.24	.07	.17	.20
30	.32	.46	.45	.55	------	.55	.85	.60	.20	.07	.12	.20
31	.32	------	.40	.55	------	.55	------	.60	------	.05	.10	------
TOTAL	9.79	13.69	17.27	13.77	13.38	24.94	25.05	23.73	13.01	4.31	2.77	4.82
MEAN	.32	.46	.56	.44	.48	.80	.84	.77	.43	.14	.089	.16
MAX	.41	1.8	.80	.73	.65	1.1	1.7	1.1	.64	.22	.17	.20
MIN	.27	.32	.40	.20	.40	.55	.55	.60	.20	.05	.04	.10
AC-FT	19	27	34	27	27	49	50	47	26	8.5	5.5	9.6

CAL YR 1973 TOTAL 176.67 MEAN .48 MAX 1.8 MIN 0 AC-FT 350
WTR YR 1974 TOTAL 166.53 MEAN .46 MAX 1.8 MIN .04 AC-FT 330

PEAK DISCHARGE (BASE, 2.0 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	0700	1.62	2.2	04-04	0930	1.67	3.1
01-23	1200	1.54	2.0	04-12	0600	1.74	3.6
03-11	1000	1.61	3.0	04-20	1900	1.60	2.1

06453400 Ponca Creek near Naper, Nebr.

LOCATION.--Lat 43°01'45", long 99°05'59", in SE1/4SE1/4 sec.22, T.95 N., R.70 W., Gregory County, S. Dak., on right bank 70 ft (21 m) upstream from highway bridge, 2.2 mi (3.5 km) north of and 6.0 mi (9.7 km) upstream from South Dakota-Nebraska State line, 4.2 mi (6.8 km) south of St. Charles, S. Dak., and 5 mi (8 km) north of Naper, Nebr.

DRAINAGE AREA.--373 mi² (966 km²).

PERIOD OF RECORD.--October 1960 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,801.64 ft (549.140 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 29.0 ft³/s (0.821 m³/s), 21,010 acre-ft/yr (25.9 hm³/yr); median of yearly mean discharges, 20 ft³/s (0.566 m³/s), 14,500 acre-ft/yr (17.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 272 ft³/s (7.70 m³/s) June 10, gage height, 3.80 ft (1.158 m); maximum gage height, 4.56 ft (1.390 m) Jan. 17, backwater from ice; no flow Jan. 12-14, Sept. 18, 19, 24-30. Period of record: Maximum discharge, 2,840 ft³/s (80.4 m³/s) July 2, 1962, gage height, 12.24 ft (3.731 m); no flow for many days in 1961-62, 1964-72, 1974.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	6.3	17	1.6	8.2	25	30	18	9.4	.85	.20	.12
2	17	7.0	17	1.2	8.2	30	34	16	8.8	1.2	.12	.12
3	9.1	8.4	10	1.0	7.8	35	30	14	7.6	1.8	.08	.08
4	4.9	9.1	17	.80	8.0	40	24	13	7.0	1.6	.08	.12
5	3.0	9.8	16	.70	8.6	45	22	12	7.0	1.4	.08	.08
6	1.8	12	13	.60	8.6	45	19	12	6.4	1.4	.08	.08
7	1.5	13	14	.50	8.4	40	18	11	5.8	1.1	.06	.04
8	1.5	13	16	.40	8.8	35	17	11	5.8	1.1	.12	.06
9	1.5	12	15	.30	9.2	36	16	12	80	1.3	.12	.12
10	1.8	12	16	.20	9.4	31	16	14	225	.85	.16	.12
11	11	10	16	.10	9.0	32	16	14	138	.48	.96	.04
12	41	11	16	0	10	34	36	13	76	.30	1.3	.12
13	41	11	13	0	11	34	40	13	48	.16	1.3	.12
14	25	13	11	0	12	32	35	13	35	.16	.54	.08
15	26	21	10	.60	13	30	33	12	28	.08	.24	.06
16	13	24	11	10	13	24	28	12	23	.06	.20	.06
17	12	22	11	50	13	24	26	12	19	.06	.20	.04
18	10	20	10	38	15	24	23	12	17	.20	.16	0
19	9.8	18	8.0	26	14	23	21	13	14	.24	.12	0
20	9.8	16	6.0	21	14	22	20	13	13	.08	.12	.02
21	8.4	14	5.4	17	13	21	24	18	10	.12	.12	.02
22	7.0	12	5.8	13	12	24	25	18	9.3	.12	.42	.04
23	7.7	13	5.4	12	12	18	21	12	8.6	.12	.36	.02
24	7.7	14	5.0	11	11	22	18	11	7.1	.12	.20	0
25	9.8	14	4.5	10	12	23	17	10	6.2	.12	.48	0
26	10	15	4.0	9.2	15	23	17	9.2	5.6	.16	1.6	0
27	7.0	15	3.5	8.8	20	21	44	8.6	4.6	.16	.60	0
28	6.3	16	3.0	8.6	20	22	33	8.4	4.3	.12	.36	0
29	6.3	17	2.5	8.4	------	23	23	9.0	3.0	.08	.24	0
30	5.6	16	2.2	8.2	------	25	20	10	.42	.20	.20	0
31	5.6	------	2.0	8.0	------	25	------	9.4	------	.20	.08	------
TOTAL	349.1	414.6	306.3	267.20	324.2	888	746	383.6	832.92	15.94	10.90	1.56
MEAN	11.3	13.8	9.88	8.62	11.6	28.6	24.9	12.4	27.8	.51	.35	.052
MAX	41	24	17	50	20	45	44	18	225	1.8	1.6	.12
MIN	1.5	6.3	2.0	0	7.8	18	16	8.4	.42	.06	.06	0
AC-FT	692	822	608	530	643	1,760	1,480	761	1,650	32	22	3.1

CAL YR 1973 TOTAL 15,078.91 MEAN 41.3 MAX 780 MIN .42 AC-FT 29,910
WTR YR 1974 TOTAL 4,540.32 MEAN 12.4 MAX 225 MIN 0 AC-FT 9,010

PEAK DISCHARGE (BASE, 300 FT³/S).--No peak above base.

06453500 Ponca Creek at Anoka, Nebr.

LOCATION.--Lat 42°56'25", long 98°50'30", in NE1/4 sec.9, T.34 N., R.13 W., Boyd County, 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.

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.

AVERAGE DISCHARGE.--25 years, 51.0 ft³/s (1.444 m³/s), 36,950 acre-ft/yr (45.6 hm³/yr); median of yearly mean discharges, 37 ft³/s (1.048 m³/s), 26,800 acre-ft/yr (33.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 654 ft³/s (18.5 m³/s) June 10, gage height, 4.92 ft (1.500 m); maximum gage height observed, 4.99 ft (1.521 m) Jan. 17, backwater from ice; no flow for many days.
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.

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

REVISIONS.--WSP 2117: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	18	27	1.7	19	45	44	26	20	3.8	.80	.06
2	41	18	30	1.6	17	56	56	22	18	3.8	.60	.10
3	30	18	28	1.5	15	54	48	22	15	3.6	.45	.10
4	24	18	24	1.5	14	60	38	22	14	3.3	.26	.06
5	19	18	22	1.5	13	68	38	20	14	3.0	.18	.06
6	14	18	21	1.5	17	78	34	18	11	2.7	.14	.10
7	12	21	26	1.5	14	71	27	18	9.6	2.0	.14	0
8	9.6	22	30	1.8	15	65	26	20	9.6	2.0	.70	.02
9	14	21	30	2.0	15	56	26	21	166	2.2	.60	0
10	13	20	26	2.1	16	49	26	22	516	1.7	.60	0
11	23	20	24	2.1	16	51	33	22	255	1.3	.40	0
12	56	18	23	2.1	19	54	64	22	155	.80	.22	.14
13	70	18	20	2.2	21	54	79	22	100	.70	.26	.06
14	42	18	18	2.8	22	51	60	22	69	.65	.14	0
15	30	25	15	2.3	25	51	51	22	52	.45	.75	0
16	23	40	13	2.3	26	41	46	22	39	.40	.75	0
17	18	32	12	13	30	42	40	22	31	.30	1.6	0
18	13	30	12	20	34	42	34	23	27	.26	.55	0
19	17	26	10	30	34	39	32	23	24	.18	.45	0
20	17	23	10	27	36	43	30	23	18	0	.26	0
21	17	20	9.2	22	38	36	50	26	18	0	.30	.02
22	15	21	9.6	20	36	38	55	34	18	.22	.22	0
23	14	22	9.0	20	33	36	36	34	18	.10	.14	0
24	15	21	8.0	19	29	33	31	23	17	.10	0	0
25	18	23	7.2	22	28	38	29	22	13	.10	.02	0
26	19	22	6.2	27	31	37	27	20	9.6	.06	.02	0
27	19	25	5.6	23	37	36	32	19	6.6	.06	.10	.02
28	17	25	4.4	20	38	35	75	18	6.6	.02	.02	0
29	17	28	3.0	21	------	38	39	20	5.5	.02	.02	0
30	16	25	1.7	21	------	41	32	22	4.6	.06	.02	0
31	16	------	1.6	21	------	41	------	20	------	.70	.06	------
TOTAL	734.6	674	486.5	356.5	688	1,479	1,238	692	1,680.1	34.58	10.77	.74
MEAN	23.7	22.5	15.7	11.5	24.6	47.7	41.3	22.3	56.0	1.12	.35	.025
MAX	70	40	30	30	38	78	79	34	516	3.8	1.6	.14
MIN	9.6	18	1.6	1.5	13	33	26	18	4.6	0	0	0
AC-FT	1,460	1,340	965	707	1,360	2,930	2,460	1,370	3,330	69	21	1.5

CAL YR 1973 TOTAL 22,696.50 MEAN 62.2 MAX 948 MIN 1.6 AC-FT 45,020
WTR YR 1974 TOTAL 8,074.79 MEAN 22.1 MAX 516 MIN 0 AC-FT 16,020

PEAK DISCHARGE (BASE, 500 FT³/S).--June 10 (0400) 654 ft³/s (4.92 ft).

06453600 Ponca Creek at Verdel, Nebr.

LOCATION.--Lat 42°48'40", long 98°10'35", in NE1/4NE1/4 sec.30, T.33 N., R.7 W., Knox County, 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).

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

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.

AVERAGE DISCHARGE.--17 years, 80.9 ft³/s (2.291 m³/s), 58,610 acre-ft/yr (72.3 hm³/yr); median of yearly mean discharges, 59 ft³/s (1.671 m³/s), 42,700 acre-ft/yr (52.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 750 ft³/s (21.2 m³/s) June 10, gage height, 4.10 ft (1.250 m); maximum gage height, 8.62 ft (2.627 m) Jan. 17, ice jam; no flow Sept. 24-30.
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.

REMARKS.--Records poor prior to May 1974 and good thereafter.

REVISIONS.--WSP 2117: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	79	64	9.2	66	360	71	72	43	20	8.6	.85
2	120	78	68	7.4	72	480	69	68	36	16	8.9	1.6
3	82	72	46	7.4	70	460	75	64	34	16	5.9	1.7
4	56	71	31	7.2	58	404	82	61	30	16	5.2	1.4
5	45	73	27	7.0	72	343	75	58	27	14	4.3	.87
6	30	67	25	6.8	64	279	75	54	25	12	3.5	.61
7	27	64	32	6.8	60	236	73	52	23	10	2.6	.37
8	26	61	36	6.5	64	192	56	51	20	9.5	4.5	.27
9	32	55	36	6.0	70	171	61	59	59	9.5	6.8	.32
10	435	49	38	6.0	66	137	61	67	644	9.1	9.2	.17
11	152	48	40	7.0	68	134	70	71	504	8.2	6.8	.19
12	147	48	38	8.5	68	151	100	58	297	7.9	5.0	.53
13	108	52	36	13	66	142	205	60	202	5.8	3.6	.74
14	103	56	35	16	62	141	158	55	148	5.5	2.7	.76
15	83	70	35	16	62	141	155	48	104	4.3	2.8	.74
16	64	88	34	35	64	119	124	47	78	3.6	2.7	.57
17	56	109	34	110	66	102	114	44	64	3.6	3.8	.30
18	54	105	34	150	70	89	95	46	56	3.5	7.0	.14
19	50	95	32	160	68	73	89	49	48	2.8	7.1	.04
20	47	70	28	120	64	76	86	47	43	2.6	3.4	.07
21	40	60	25	98	62	81	84	49	39	2.2	3.6	.06
22	43	64	24	76	56	71	83	50	34	2.1	2.8	.04
23	42	60	22	100	54	67	99	47	35	2.0	2.0	.05
24	42	64	20	88	58	73	92	47	33	1.8	1.3	0
25	61	60	19	76	64	43	87	42	32	2.9	.88	0
26	67	64	19	78	82	50	82	38	28	6.8	.66	0
27	73	64	18	88	94	49	76	35	24	4.2	1.8	0
28	74	66	17	90	180	47	71	35	22	2.2	.90	0
29	79	70	15	96	------	43	87	42	21	1.8	.96	0
30	77	60	14	94	------	56	85	52	19	1.7	1.0	0
31	75	------	13	80	------	61	------	50	------	3.6	.76	------
TOTAL	2,584	2,042	955	1,669.8	1,970	4,871	2,740	1,618	2,772	211.2	121.06	12.39
MEAN	83.4	68.1	30.8	53.9	70.4	157	91.3	52.2	92.4	6.81	3.91	.41
MAX	435	109	68	160	180	480	205	72	644	20	9.2	1.7
MIN	26	48	13	6.0	54	43	56	35	19	1.7	.66	0
AC-FT	5,130	4,050	1,890	3,310	3,910	9,660	5,430	3,210	5,500	419	240	25

CAL YR 1973 TOTAL 42,642.00 MEAN 117 MAX 1,000 MIN 4.3 AC-FT 84,580
WTR YR 1974 TOTAL 21,566.45 MEAN 59.1 MAX 644 MIN 0 AC-FT 42,780

PEAK DISCHARGE (BASE, 800 FT³/S).--No peak above base.

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, Wyo., 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, Wyo.

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

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

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

AVERAGE DISCHARGE.--19 years, 4.42 ft³/s (0.125 m³/s), 3,200 acre-ft/yr (3.95 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 605 ft³/s (17.1 m³/s) Jan. 16, gage height, 6.28 ft (1.914 m); minimum daily discharge, 0.82 ft³/s (0.023 m³/s) Aug. 27.
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, 0.82 ft³/s (0.023 m³/s) Aug. 27.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.8	3.5	3.4	5.8	10	4.0	4.3	3.2	1.9	1.4	1.5
2	2.7	2.8	3.6	3.2	5.5	157	3.7	4.2	3.1	1.8	1.4	1.5
3	2.7	3.0	3.5	3.1	5.2	92	4.0	4.0	3.1	1.7	1.4	1.4
4	2.8	3.0	3.6	2.9	5.1	12	4.4	3.9	2.9	1.6	1.4	1.4
5	2.8	3.0	3.6	2.8	4.9	8.3	4.5	3.5	2.8	1.5	1.4	1.4
6	2.8	3.3	3.5	2.8	4.7	8.3	4.3	3.5	2.8	1.4	1.3	1.4
7	2.7	3.6	3.5	2.7	4.6	9.9	4.5	3.4	2.8	1.4	1.2	1.3
8	2.7	3.4	3.7	2.8	5.0	9.9	4.2	3.4	3.1	1.4	1.3	1.3
9	3.2	3.5	3.7	2.5	5.4	8.9	4.2	3.3	3.0	1.3	1.3	1.3
10	3.1	3.6	3.6	2.5	5.1	9.9	4.0	3.3	2.8	1.4	1.6	1.3
11	3.0	3.6	3.7	2.5	5.3	9.6	44	3.3	2.7	1.6	1.5	1.5
12	2.9	3.8	3.8	2.4	5.6	8.9	191	3.3	2.6	1.5	1.4	2.3
13	2.8	3.6	3.8	2.5	5.4	8.6	83	3.1	2.5	1.3	1.4	1.9
14	3.0	3.5	4.0	2.5	5.3	8.0	7.4	3.1	2.4	1.4	1.3	1.8
15	3.0	3.3	4.0	4.4	5.4	7.0	7.6	3.1	2.5	1.4	1.3	1.7
16	3.0	3.3	4.0	93	5.5	7.4	6.6	3.1	2.5	1.4	1.3	1.8
17	2.8	3.3	4.2	155	5.7	6.7	7.9	3.2	2.4	1.4	1.1	1.7
18	2.8	3.4	5.9	26	5.5	6.4	11	3.4	2.3	1.4	1.1	1.8
19	2.7	3.6	4.2	5.7	5.2	6.0	10	3.4	2.2	1.4	1.2	1.7
20	2.8	3.5	4.3	2.7	5.5	5.4	10	3.5	2.1	1.4	1.2	1.9
21	3.8	3.6	4.4	3.6	5.1	5.4	10	3.4	2.1	1.4	1.2	1.9
22	3.3	3.6	4.2	4.4	5.2	4.8	9.6	3.4	2.3	1.4	1.1	2.0
23	3.0	3.6	4.6	4.6	4.8	4.8	8.3	3.6	2.4	1.4	1.1	2.0
24	3.2	3.6	4.4	4.2	5.0	4.6	7.1	3.5	2.4	1.4	.97	2.0
25	3.0	3.6	4.4	4.4	5.0	4.6	6.6	3.4	2.4	1.4	.90	2.0
26	2.6	3.4	4.7	8.8	5.2	4.6	6.7	3.4	2.2	1.4	.90	2.2
27	2.4	3.3	3.7	7.8	5.2	4.6	6.0	3.6	2.2	1.4	.82	2.0
28	2.5	3.4	3.8	6.9	5.2	4.5	5.5	3.4	2.0	1.4	.90	2.1
29	2.5	3.4	3.4	6.7	------	4.2	5.1	3.3	2.0	1.4	1.4	2.0
30	2.7	3.4	3.6	6.6	------	4.2	4.9	3.2	1.9	1.4	1.5	2.1
31	2.8	------	3.4	6.3	------	4.2	------	3.0	------	1.4	1.5	------
TOTAL	88.6	101.8	122.3	389.7	146.4	450.7	490.1	106.5	75.7	45.0	38.79	52.2
MEAN	2.86	3.39	3.95	12.6	5.23	14.5	16.3	3.44	2.52	1.45	1.25	1.74
MAX	3.8	3.8	5.9	155	5.8	157	191	4.3	3.2	1.9	1.6	2.3
MIN	2.4	2.8	3.4	2.4	4.6	4.2	3.7	3.0	1.9	1.3	.82	1.3
AC-FT	176	202	243	773	290	894	972	211	150	89	77	104

CAL YR 1973 TOTAL 1,620.40 MEAN 4.44 MAX 39 MIN 1.8 AC-FT 3,210
WTR YR 1974 TOTAL 2,107.79 MEAN 5.77 MAX 191 MIN .82 AC-FT 4,180

PEAK DISCHARGE (BASE, 20 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-16	2100	6.28	605	3- 2	2315	4.93	323
1-21	1300	1.97	23	4-12	0500	4.31	238

06454100 Niobrara River at Agate, Nebr.

LOCATION.--Lat 42°25'22", long 103°47'28", in SW1/4 sec.6, T.28 N., R.55 W., Sioux County, 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.

AVERAGE DISCHARGE.--17 years, 14.7 ft³/s (0.416 m³/s), 10,650 acre-ft/yr (13.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 76 ft³/s (2.15 m³/s) Mar. 5, gage height, 4.00 ft (1.219 m), from floodmark; minimum daily, 2.3 ft³/s (0.065 m³/s) July 14.
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, 1.8 ft³/s (0.051 m³/s) Apr. 4, 1968, result of freezeup.

REMARKS.--Records good, except those for periods of no gage-height record, which are poor. Diversions for irrigation of about 6,700 acres (27.1 km²) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	17	12	21	25	20	15	6.2	3.2	2.4	3.5
2	14	16	17	12	21	25	20	13	5.9	3.2	2.5	3.8
3	14	15	18	12	21	25	20	13	5.7	3.1	2.7	5.1
4	14	11	18	12	20	25	20	15	5.2	3.1	2.8	7.8
5	14	16	17	12	20	30	21	15	5.2	3.0	2.8	8.7
6	14	17	13	12	20	40	21	14	5.3	3.0	2.7	8.5
7	13	18	19	11	20	38	20	9.2	5.3	3.0	2.7	7.1
8	13	17	19	11	19	30	20	9.9	6.0	3.1	2.8	5.5
9	13	17	15	11	19	27	20	8.9	7.4	3.4	2.8	5.2
10	14	18	16	10	19	27	20	10	6.6	3.3	3.5	4.9
11	14	18	19	10	19	27	23	11	6.6	2.9	3.4	5.0
12	15	19	19	10	19	27	22	7.1	6.6	2.7	3.1	6.3
13	14	18	18	10	19	27	27	7.5	4.6	2.5	3.1	6.6
14	14	18	18	10	20	27	26	7.1	3.8	2.3	3.0	8.2
15	14	18	17	12	20	26	24	7.4	4.0	2.7	3.4	11
16	13	17	18	16	20	22	24	13	3.8	3.1	3.7	11
17	13	17	18	20	21	22	25	13	3.9	2.8	3.3	11
18	13	17	15	25	21	21	23	14	3.9	3.0	3.2	12
19	13	17	14	24	22	21	22	14	3.8	4.1	3.0	12
20	13	16	16	23	22	21	20	13	4.4	4.0	2.9	11
21	13	15	15	23	23	21	18	13	5.2	4.3	2.9	12
22	13	18	17	22	23	21	18	13	4.8	4.5	2.9	11
23	13	17	18	22	23	21	18	13	5.0	4.0	3.8	11
24	15	17	18	22	24	20	17	12	4.3	3.8	5.4	11
25	15	17	11	22	24	21	17	7.5	4.2	2.7	4.4	11
26	15	17	12	22	24	21	17	6.0	4.0	2.7	4.2	10
27	15	17	12	22	24	21	16	6.0	3.9	2.8	4.2	10
28	15	16	13	22	24	21	16	6.0	3.7	2.5	4.3	10
29	15	17	14	22	------	21	16	7.3	3.2	2.4	5.0	10
30	15	17	14	22	------	21	15	7.0	3.5	2.4	3.7	10
31	15	------	14	21	------	20	------	5.8	------	2.4	3.6	------
TOTAL	432	503	499	517	592	762	606	326.7	146.0	96.0	104.2	260.2
MEAN	13.9	16.8	16.1	16.7	21.1	24.6	20.2	10.5	4.87	3.10	3.36	8.67
MAX	15	19	19	25	24	40	27	15	7.4	4.5	5.4	12
MIN	13	11	11	10	19	20	15	5.8	3.2	2.3	2.4	3.5
AC-FT	857	998	990	1,030	1,170	1,510	1,200	648	290	190	207	516

CAL YR 1973 TOTAL 5,649.0 MEAN 15.5 MAX 43 MIN 2.9 AC-FT 11,200
WTR YR 1974 TOTAL 4,844.1 MEAN 13.3 MAX 40 MIN 2.3 AC-FT 9,610

PEAK DISCHARGE (BASE, 35 FT³/S).--Mar. 5 (unknown) 76 ft³/s (4.00 ft.).

NOTE.--No gage-height record Jan. 2-24, Jan. 27 to Mar. 6, Mar. 10-12, Mar. 26 to Apr. 3.

06454500 Niobrara River above Box Butte Reservoir, Nebr.

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

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

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

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.

AVERAGE DISCHARGE.--28 years, 31.0 ft³/s (0.878 m³/s), 22,460 acre-ft/yr (27.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 163 ft³/s (4.62 m³/s) Aug. 23, gage height, 4.61 ft (1.405 m); minimum daily, 3.5 ft³/s (0.099 m³/s) July 5.
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. 25, 1953.

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

REVISIONS (WATER YEARS).--WSP 1917: 1951, 1952(P), 1957(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	34	44	30	43	62	41	30	13	4.4	7.9	10
2	38	34	42	30	43	55	39	37	13	3.7	8.3	9.6
3	37	34	42	28	41	53	40	31	12	3.9	5.8	9.0
4	36	34	41	26	41	52	41	45	12	3.6	5.2	8.9
5	35	35	40	26	46	50	44	42	10	3.5	5.1	8.9
6	35	38	35	25	42	47	46	30	6.6	3.9	4.9	8.9
7	34	40	39	25	40	46	46	22	6.6	3.9	5.5	9.1
8	34	41	40	25	45	44	46	18	7.8	3.9	6.5	8.5
9	34	40	40	24	45	45	43	17	9.9	3.9	5.1	8.0
10	35	43	38	24	40	52	41	26	11	4.3	5.4	9.0
11	36	44	38	25	41	66	65	24	13	4.4	5.1	7.6
12	37	44	38	26	43	66	71	21	11	4.4	5.1	11
13	37	43	34	27	48	61	78	17	10	4.4	4.9	12
14	37	42	39	29	49	55	74	11	10	4.4	5.0	13
15	37	41	35	31	52	53	65	13	13	9.6	5.1	14
16	36	40	38	40	52	50	54	9.7	7.0	12	5.1	15
17	36	40	40	46	55	49	46	8.8	7.0	8.7	5.7	12
18	35	40	40	44	58	48	42	9.5	6.6	8.7	8.5	12
19	35	39	32	49	54	48	40	8.9	6.2	12	5.8	12
20	35	39	30	62	66	46	37	8.5	6.6	9.3	5.7	12
21	35	34	32	54	51	44	37	8.4	7.1	9.9	5.1	11
22	34	37	34	50	56	46	37	8.7	7.1	9.3	5.5	11
23	34	37	36	58	54	44	37	8.7	7.1	8.6	84	11
24	35	37	36	66	50	41	36	8.7	6.8	8.1	30	11
25	35	42	35	60	46	47	36	8.7	6.3	8.1	13	9.7
26	36	38	32	47	48	44	36	9.3	5.7	8.0	10	10
27	36	38	30	46	57	44	36	9.9	5.3	5.9	8.6	17
28	36	38	30	48	48	46	35	17	5.3	4.8	7.6	14
29	35	40	30	48	------	45	35	20	4.6	5.6	9.2	14
30	35	43	29	47	------	43	35	14	4.4	5.3	9.1	14
31	34	------	30	46	------	41	------	13	------	5.8	9.1	------
TOTAL	1,103	1,169	1,119	1,212	1,354	1,533	1,359	555.8	252.0	196.3	306.9	333.2
MEAN	35.6	39.0	36.1	39.1	48.4	49.5	45.3	17.9	8.40	6.33	9.90	11.1
MAX	39	44	44	66	66	66	78	45	13	12	84	17
MIN	34	34	29	24	40	41	35	8.4	4.4	3.5	4.9	7.6
AC-FT	2,190	2,320	2,220	2,400	2,690	3,040	2,700	1,100	500	389	609	661

CAL YR 1973 TOTAL 12,422.7 MEAN 34.0 MAX 101 MIN 4.7 AC-FT 24,640
WTR YR 1974 TOTAL 10,493.2 MEAN 28.7 MAX 84 MIN 3.5 AC-FT 20,810

PEAK DISCHARGE (BASE, 100 FT³/S).--Aug. 23 (0530) 163 ft³/s (4.61 ft).

06455000 Box Butte Reservoir near Hemingford, Nebr. 1974

LOCATION.--Lat 42°27'30", long 103°04'03", in sec.28, T.29 N., R.49 W., Dawes County, 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.

EXTREMES.--Current year: Maximum contents observed, 19,130 acre-ft (23.6 hm³) May 15, elevation, 3,998.51 ft (1,218.746 m); minimum observed, 1,920 acre-ft (2.37 hm³) Aug. 30, elevation, 3,975.22 ft (1,211.647 m). 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, 868 acre-ft (1.07 hm³) Sept. 4, 1971, elevation, 3,970.42 ft (1,210.184 m).

REMARKS.--Reservoir is formed by earthfill dam; outlet gate first closed Oct. 3, 1945. Usable capacity, 30,400 acre-ft (37.5 hm³) between elevations 3,969.00 ft (1,209.751 m), sill of outlet gate, and 4,007.00 ft (1,221.334 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.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) a/	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	3,979.26	3,370	-
Oct. 31	3,983.80	5,760	+2,390
Nov. 30	3,987.58	8,290	+2,530
Dec. 31	3,989.66	9,980	+1,690
CAL YR 1973			-1,800
Jan. 31	3,991.97	12,070	+2,090
Feb. 28	3,994.20	14,280	+2,210
Mar. 31	3,996.46	16,720	+2,440
Apr. 30	3,998.20	18,750	+2,030
May 31	3,998.38	18,970	+220
June 30	3,996.91	17,230	-1,740
July 31	3,984.40	6,120	-11,110
Aug. 31	3,975.22	1,920	-4,200
Sept. 30	3,978.46	3,020	+1,100
WTR YR 1974	-	-	-350

a Elevations read on or near last day of month.

06455500 Niobrara River below Box Butte Reservoir, Nebr.

LOCATION.--Lat 42°27'25", long 103°04'05", in SE1/4 sec.28, T.29 N., R.49 W., Dawes County, 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.

EXTREMES.--Current year: Maximum discharge, 213 ft³/s (6.03 m³/s) July 11-13, gage height, 4.42 ft (1.347 m); minimum daily, 0.48 ft³/s (0.014 m³/s) Nov. 2.
Period of record: Maximum discharge, 615 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.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	.71	.80	.96	.83	.72	.92	1.0	1.1	140	142	.89
2	.77	.48	.79	.96	.83	.72	.92	1.1	1.0	164	130	.86
3	.72	.56	.79	.96	.83	.72	.96	1.1	.98	177	123	.82
4	.71	.56	.79	.96	.83	.72	.96	1.1	.98	179	121	.80
5	.67	.60	.79	.96	.82	.72	1.0	1.0	1.0	183	118	.78
6	.66	.64	.83	.96	.83	.72	.95	1.0	1.1	182	112	.80
7	.65	.63	.85	.96	.81	.80	1.0	.98	1.1	184	112	.76
8	.61	.66	.83	.87	.82	.87	.96	1.0	1.2	189	110	.75
9	.62	.71	.82	.87	.83	.86	.95	1.0	1.4	191	104	.76
10	.60	.78	.83	.87	.83	.80	.99	1.0	1.2	201	78	.72
11	.65	.77	.83	.80	.84	.96	1.2	1.0	1.2	207	56	.76
12	.64	.80	.91	.80	.83	.96	1.2	.99	1.1	212	61	1.2
13	.57	.80	.92	.80	.84	.96	1.0	.94	.97	208	76	.75
14	.56	.79	.91	.80	.84	.96	1.0	.92	.95	199	91	.70
15	.51	.82	.89	.80	.83	.87	.99	.95	.95	198	102	.65
16	.52	.83	.92	.86	.84	.87	.99	.95	.95	196	106	.66
17	.54	.82	.96	.84	.80	.87	.98	.96	.96	189	105	.69
18	.52	.86	1.0	.83	.81	.87	.98	.99	.92	177	105	.66
19	.55	.88	.96	.83	.81	.87	.99	.98	.92	162	106	.65
20	.55	.81	.97	.83	.80	.87	.99	.94	.92	152	107	.69
21	.52	.83	.98	.86	.76	.87	.99	.93	.84	141	109	.69
22	.52	.82	.97	.83	.78	.83	.99	.93	.91	139	103	.69
23	.52	.83	.97	.83	.76	.83	.98	.94	.90	137	88	.66
24	.55	.82	.97	.83	.73	.83	1.0	.94	.92	139	76	.66
25	.55	.83	1.0	.84	.74	.87	1.0	.94	.89	142	76	.65
26	.55	.83	.97	.83	.75	.87	1.0	.95	19	138	74	.62
27	.55	.82	1.0	.83	.74	.87	.99	.97	64	137	72	.62
28	.68	.82	1.0	.83	.71	.87	1.0	1.0	74	141	71	.65
29	.96	.83	1.0	.83	------	.87	1.0	1.0	97	149	70	.70
30	.92	.83	1.0	.84	------	.92	1.0	1.0	104	148	26	.72
31	.92	------	.96	.83	------	.92	------	1.0	------	147	.90	------
TOTAL	19.64	22.77	28.21	26.70	22.47	26.26	29.88	30.50	383.36	5,248	2,830.90	22.05
MEAN	.63	.76	.91	.86	.80	.85	1.00	.98	12.8	169	91.3	.74
MAX	.96	.88	1.0	.96	.84	.96	1.2	1.1	104	212	142	1.2
MIN	.51	.48	.79	.80	.71	.72	.92	.92	.84	137	.90	.62
AC-FT	39	45	56	53	45	52	59	60	760	10,410	5,620	44

CAL YR 1973 TOTAL 10,066.82 MEAN 27.6 MAX 213 MIN .48 AC-FT 19,970
WTR YR 1974 TOTAL 8,690.75 MEAN 23.8 MAX 212 MIN .48 AC-FT 17,240

06457500 Niobrara River near Gordon, Nebr.

LOCATION.--Lat 42°38'00", long 102°12'40", in NE1/4 sec.26, T.31 N., R.42 W., Sheridan County, 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.

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.

EXTREMES.--Current year: Maximum discharge, 324 ft³/s (9.18 m³/s) Feb. 9, gage height, 1.31 ft (0.399 m); maximum gage height, 2.18 ft (0.664 m) Jan. 18, backwater from ice; minimum daily discharge, 50 ft³/s (1.42 m³/s) Dec. 19.
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.

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

REVISIONS.--WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	118	80	90	154	151	122	111	78	58	69	89
2	133	117	89	80	160	145	130	110	79	59	67	94
3	123	125	92	78	176	152	128	109	76	59	65	95
4	115	128	89	78	192	144	130	120	73	60	67	91
5	111	126	85	80	184	146	128	116	73	58	66	87
6	110	127	92	90	101	164	130	112	76	58	64	87
7	108	128	98	92	154	140	130	107	80	57	64	84
8	107	125	105	98	220	130	148	101	85	58	65	84
9	105	130	94	98	210	138	148	105	120	62	64	84
10	108	136	88	98	200	163	140	102	115	61	73	85
11	124	145	107	110	196	167	138	107	108	62	73	84
12	136	148	98	130	172	147	168	105	99	63	69	98
13	140	128	81	150	145	156	160	103	93	63	66	102
14	155	112	83	180	129	145	147	98	89	63	64	100
15	147	105	90	210	127	142	150	97	87	63	64	98
16	142	101	92	210	136	143	146	95	87	62	64	93
17	135	105	89	210	134	149	150	93	87	63	66	91
18	131	108	69	210	150	128	141	94	85	66	63	89
19	128	104	50	205	174	125	139	96	84	76	65	86
20	125	93	75	190	165	112	136	89	79	73	65	92
21	122	86	80	180	135	118	174	84	74	72	65	97
22	120	105	80	170	135	110	171	80	69	76	65	96
23	120	101	90	160	140	108	156	79	68	73	68	93
24	120	91	100	150	132	99	139	79	70	72	68	91
25	118	85	100	150	129	97	132	78	68	70	66	89
26	118	81	100	150	136	122	127	79	66	69	65	87
27	118	82	110	150	143	130	122	77	62	67	65	84
28	122	80	110	140	149	136	114	75	61	68	65	85
29	120	78	110	140	------	128	113	83	60	71	73	88
30	118	84	105	145	------	120	112	89	58	71	73	88
31	115	------	100	148	------	130	------	80	------	71	73	------
TOTAL	3,850	3,282	2,831	4,370	4,378	4,185	4,169	2,953	2,409	2,024	2,069	2,711
MEAN	124	109	91.3	141	156	135	139	95.3	80.3	65.3	66.7	90.4
MAX	156	148	110	210	220	167	174	120	120	76	73	102
MIN	105	78	50	78	101	97	112	75	58	57	63	84
AC-FT	7,640	6,510	5,620	8,670	8,680	8,300	8,270	5,860	4,780	4,010	4,100	5,380

CAL YR 1973 TOTAL 41,587 MEAN 114 MAX 310 MIN 50 AC-FT 82,490
WTR YR 1974 TOTAL 39,231 MEAN 107 MAX 220 MIN 50 AC-FT 77,810

06459200 Snake River above Merritt Reservoir, Nebr.

LOCATION.--Lat 42°35'40", long 101°02'20", in NE1/4 sec.11, T.30 N., R.32 W., Cherry County, 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.

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

AVERAGE DISCHARGE.--12 years, 204 ft³/s (5.777 m³/s), 147,800 acre-ft/yr (0.182 km³/yr).

EXTREMES.--Current year: Maximum discharge, 428 ft³/s (12.1 m³/s) Apr. 11, gage height, 3.73 ft (1.137 m); maximum gage height, 5.10 ft (1.554 m) Feb. 6, backwater from ice; minimum daily discharge, 150 ft³/s (4.25 m³/s) Dec. 19.
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, 5.56 ft (1.695 m) Nov. 23, 1970, backwater from ice; minimum daily discharge, 89 ft³/s (2.52 m³/s) Dec. 13, 1968.
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.

REMARKS.--Records good except those for winter period, which are fair. Records of water temperatures for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	247	192	199	180	185	228	225	194	181	168	179	208
2	232	191	201	195	191	228	217	195	183	169	177	204
3	226	197	201	185	186	239	214	195	192	168	173	196
4	212	202	194	180	196	234	201	196	178	167	175	194
5	207	200	196	195	196	225	201	196	176	167	179	191
6	207	210	194	180	180	222	212	194	179	162	177	194
7	202	206	201	190	185	219	209	191	177	158	172	194
8	207	206	201	215	200	216	214	189	190	160	181	194
9	209	205	199	195	215	220	214	192	243	168	237	196
10	205	212	199	195	220	217	217	199	230	170	244	196
11	250	217	201	195	220	221	288	195	220	173	247	194
12	226	218	205	185	217	222	339	183	206	169	217	224
13	227	223	198	220	212	221	284	188	196	170	204	211
14	229	215	214	260	217	213	266	179	190	166	199	208
15	228	209	210	290	217	216	266	174	190	167	225	207
16	225	204	203	310	222	209	264	176	187	169	217	205
17	222	207	204	300	228	208	249	177	187	171	207	207
18	217	204	206	284	225	215	239	183	189	177	203	208
19	214	203	150	255	222	209	235	192	190	174	198	208
20	210	191	160	264	228	201	259	246	185	172	193	221
21	208	215	200	236	214	189	289	201	178	169	200	223
22	204	202	281	230	201	189	253	188	175	175	195	222
23	201	210	248	199	207	194	246	180	180	176	188	223
24	208	204	211	188	210	183	252	178	178	175	187	224
25	199	202	232	190	208	191	230	181	175	176	188	225
26	200	202	223	197	206	197	224	181	173	171	187	222
27	198	198	224	191	221	201	220	178	173	175	184	223
28	195	203	211	196	221	209	204	181	171	173	186	220
29	194	201	217	193	------	212	199	192	170	170	210	227
30	195	202	200	188	------	209	195	196	169	172	216	225
31	196	------	170	184	------	225	------	176	------	177	206	------
TOTAL	6,600	6,151	6,353	6,665	5,850	6,582	7,125	5,866	5,611	5,274	6,151	6,294
MEAN	213	205	205	215	209	212	238	189	187	170	198	210
MAX	250	223	281	310	228	239	339	246	243	177	247	227
MIN	194	191	150	180	180	183	195	174	169	158	172	191
AC-FT	13,090	12,200	12,600	13,220	11,600	13,060	14,130	11,640	11,130	10,460	12,200	12,480

CAL YR 1973 TOTAL 75,087 MEAN 206 MAX 338 MIN 150 AC-FT 148,900
WTR YR 1974 TOTAL 74,522 MEAN 204 MAX 339 MIN 150 AC-FT 147,800

PEAK DISCHARGE (BASE, 350 FT³/S).--Apr. 11 (2045) 428 ft³/s (3.73 ft); Aug. 9 (1845) 358 ft³/s (3.71 ft).

06459300 Merritt Reservoir near Burge, Nebr. 1974

LOCATION.--Lat 42°38'06", long 100°52'18", in SW1/4NW1/4 sec.29, T.31 N., R.30 W., Cherry County, 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.

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

EXTREMES.--Current year: Maximum contents observed, 75,080 acre-ft (92.6 hm³) Apr. 21,22, May 20,21, June 10-12, elevation, 2,946.2 ft (898.00 m); minimum observed, 31,100 acre-ft (38.3 hm³) Aug. 31 to Sept. 3, elevation, 2,925.5 ft (891.69 m).
Period of record: Maximum contents observed, 76,840 acre-ft (94.7 hm³) May 4, 1971; minimum since appreciable storage was attained, 20,060 acre-ft (24.7 hm³) Oct. 1, 1968, elevation, 2,916.1 ft (888.83 m).

REMARKS.--Reservoir is formed by earthfill dam; storage began Feb. 19, 1964. Usable capacity, 71,379 acre-ft (88.0 hm³) between elevations 2,884.0 ft (879.04 m), minimum water surface, and 2,946.0 ft (897.94 m), crest of spillway. Dead and inactive storage, 3,107 acre-ft (3.83 hm³) below elevation 2,884.0 ft (879.04 m). Figures given herein represent total contents. Water is used for irrigation of Ainsworth Unit of Bureau of Reclamation.

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

REVISIONS.--WRD Nebr. 1967: Drainage area.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	2,934.2	45,620	-
Oct. 31	2,938.9	55,770	+10,150
Nov. 30	2,940.9	60,660	+4,890
Dec. 31	2,941.0	60,910	+250
CAL YR 1973	-	-	0
Jan. 31	2,941.1	61,170	+260
Feb. 28	2,941.0	60,910	-260
Mar. 31	2,945.0	71,620	+10,710
Apr. 30	2,945.9	74,200	+2,580
May 31	2,946.0	74,490	+290
June 30	2,945.5	73,050	-1,440
July 31	2,935.8	48,870	-24,180
Aug. 31	2,925.5	31,100	-17,770
Sept. 30	2,930.3	38,490	+7,390
WTR YR 1974	-	-	-7,130

06459500 Snake River near Burge, Nebr.

LOCATION.--Lat 42°39'15", long 100°51'28", in NE1/4 sec.20, T.31 N., R.30 W., Cherry County, 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.

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

AVERAGE DISCHARGE.--11 years (1963-74), 159 ft³/s (4.503 m³/s), 115,200 acre-ft/yr (0.142 km³/yr), since storage and diversion began.

EXTREMES.--Current year: Maximum discharge, 362 ft³/s (10.3 m³/s) Apr. 21,26, gage height, 2.31 ft (0.704 m); minimum daily, 11 ft³/s (0.31 m³/s) Oct. 12-19, Mar. 8-17.
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.

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

REVISIONS (WATER YEARS).--WSP 1279: 1950(M), 1951(P). WRD Nebr. 1967,1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	275	12	218	224	287	248	13	214	116	17	17	17
2	272	12	218	223	273	248	13	208	121	17	17	17
3	273	12	218	221	273	249	13	187	122	17	17	17
4	269	12	218	210	258	250	12	172	120	17	17	17
5	269	12	218	200	211	245	44	172	121	17	17	16
6	267	12	218	199	211	224	187	127	119	17	17	16
7	269	12	217	200	211	125	211	105	121	18	17	16
8	268	12	217	201	211	11	211	104	121	17	17	16
9	269	119	218	198	211	11	214	107	131	17	17	16
10	266	220	215	199	211	11	217	129	175	17	17	16
11	199	217	215	198	217	11	217	141	197	17	17	16
12	11	217	216	198	241	11	266	144	194	17	17	17
13	11	220	215	196	241	11	294	144	190	17	17	16
14	11	220	215	197	241	11	298	139	186	17	17	16
15	11	220	215	199	243	11	298	154	181	17	17	16
16	11	220	215	199	245	11	302	141	132	17	17	16
17	11	220	218	206	261	11	297	141	108	18	17	16
18	11	220	221	224	273	12	292	141	108	18	17	16
19	11	221	219	241	273	12	310	155	108	18	17	16
20	12	221	219	263	276	12	294	208	108	18	17	16
21	12	220	218	273	277	12	326	220	85	17	17	15
22	12	220	220	273	277	12	342	214	71	17	17	15
23	12	219	221	273	277	12	330	207	55	17	17	15
24	12	219	221	288	277	12	334	204	43	17	17	15
25	12	218	221	303	277	12	334	201	44	17	17	15
26	12	218	221	303	277	12	338	160	36	17	17	15
27	12	218	221	303	267	12	326	138	19	17	17	15
28	12	218	221	303	248	12	302	137	18	17	17	15
29	12	218	224	303	------	13	262	136	17	17	17	15
30	12	218	224	303	------	13	217	135	17	17	17	15
31	12	------	224	303	------	13	------	135	------	17	17	------
TOTAL	3,128	4,817	6,779	7,424	7,045	1,870	7,114	4,920	3,184	532	527	475
MEAN	101	161	219	239	252	60.3	237	159	106	17.2	17.0	15.8
MAX	275	221	224	303	287	250	342	220	197	18	17	17
MIN	11	12	215	196	211	11	12	104	17	17	17	15
AC-FT	6,200	9,550	13,450	14,730	13,970	3,710	14,110	9,760	6,320	1,060	1,050	942

CAL YR 1973 TOTAL 54,667 MEAN 150 MAX 333 MIN 11 AC-FT 108,400
WTR YR 1974 TOTAL 47,815 MEAN 131 MAX 342 MIN 11 AC-FT 94,840

06460900 Minnechaduza Creek near Kilgore, Nebr.

LOCATION.--Lat 42°59'10", long 100°53'55", in NE1/4NW1/4 sec.30, T.35 N., R.30 W., Cherry County, on right bank 800 ft (244 m) northeast of Paul Zysset ranch buildings, 2.5 mi (4.0 km) downstream from South Dakota-Nebraska State line, and 4.5 mi (7.2 km) northeast of Kilgore.

DRAINAGE AREA.--85 mi² (220 km²), approximately.

PERIOD OF RECORD.--March 1958 to September, 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 2,770 ft (844 m), from topographic map.

AVERAGE DISCHARGE.--16 years, 7.19 ft³/s (0.204 m³/s), 5,210 acre-ft/yr (6.42 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 18 ft³/s (0.51 m³/s) Apr. 14, gage height, 3.53 ft (1.076 m), maximum gage height, 3.59 ft (1.094 m) Feb. 21, backwater from ice and beaver dams; no flow July 16, 17, 24-29, Aug. 6-9.
Period of record: Maximum discharge, 147 ft³/s (4.16 m³/s) June 8, 1968, gage height, 4.19 ft (1.277 m); maximum gage height, 4.37 ft (1.332 m) Apr. 20, 1971, backwater from beaver dams; no flow at times in 1959, 1961, 1964, 1966, 1969-74.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1729: 1959(M). WSP 1917: 1958(M), 1960(P). WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	5.1	5.7	2.8	6.4	12	11	5.6	3.4	.30	.06	.84
2	3.4	5.1	5.9	2.4	6.4	12	11	5.2	3.3	.24	.09	1.0
3	3.1	5.4	6.0	2.1	6.4	12	11	4.9	3.0	.24	.10	.93
4	2.8	5.6	5.9	2.0	6.8	11	11	4.7	2.6	.18	.08	.82
5	2.8	5.7	5.6	1.9	7.3	10	10	4.4	2.3	.15	.02	.58
6	2.9	6.2	5.3	1.8	7.2	10	10	4.0	2.1	.10	0	.53
7	2.8	6.7	5.2	1.7	6.3	10	10	3.7	1.8	.06	0	.47
8	2.8	6.4	5.5	1.7	6.0	10	10	3.5	1.9	.02	0	.38
9	2.7	6.3	5.1	1.7	6.1	9.9	10	3.9	3.7	.04	0	.39
10	2.8	6.6	5.1	1.7	6.6	9.7	10	4.0	3.4	.03	.10	.28
11	4.0	7.0	4.9	1.7	7.5	10	11	4.1	3.7	.08	.15	.39
12	5.1	6.9	5.1	1.7	8.2	10	16	3.9	3.6	.10	.15	.83
13	4.7	6.7	5.2	1.6	8.5	11	17	4.5	3.3	.06	.18	.69
14	4.7	6.6	5.0	2.0	8.4	11	18	4.4	2.9	.03	.61	.64
15	4.7	6.8	4.6	7.0	8.7	11	18	4.4	2.4	.02	1.2	.74
16	4.7	6.7	4.3	9.0	9.2	10	18	4.3	2.0	0	1.2	.78
17	4.7	6.6	4.4	8.6	9.8	10	16	4.1	1.6	0	1.4	.83
18	4.7	6.4	4.3	9.0	11	10	15	3.9	1.3	.07	1.4	.75
19	4.6	6.4	4.4	8.4	11	11	13	4.1	.91	.08	1.0	.72
20	4.4	6.2	4.4	8.9	12	10	13	5.3	.70	.10	.82	.80
21	4.2	6.0	4.1	7.8	12	10	12	5.8	.82	.03	1.1	.86
22	4.2	6.0	4.0	7.0	10	10	11	6.7	.68	.10	1.7	.82
23	4.2	6.2	4.0	6.3	11	10	11	7.1	.61	.08	1.8	.87
24	4.4	6.0	3.9	6.2	10	9.9	9.9	6.7	.61	0	1.4	.77
25	4.7	5.8	3.8	5.8	9.8	10	9.4	6.1	.61	0	1.2	.78
26	4.7	5.8	3.8	6.3	10	11	8.5	5.4	.54	0	.88	.78
27	4.7	5.7	3.8	6.5	11	10	7.9	4.6	.48	0	.65	.84
28	4.7	5.6	3.6	6.4	11	9.8	7.2	4.0	.42	0	.65	.73
29	4.8	5.7	3.4	6.4	------	9.9	6.6	4.0	.36	0	.83	.70
30	4.8	5.8	3.2	6.6	------	9.9	6.2	3.8	.30	.03	.83	.65
31	5.0	------	3.0	6.7	------	11	------	3.5	------	.03	.67	------
TOTAL	126.6	184.0	142.5	149.7	244.6	322.1	348.7	144.6	55.34	2.17	20.27	21.19
MEAN	4.08	6.13	4.60	4.83	8.74	10.4	11.6	4.66	1.84	.070	.65	.71
MAX	5.1	7.0	6.0	9.0	12	12	18	7.1	3.7	.30	1.8	1.0
MIN	2.7	5.1	3.0	1.6	6.0	9.7	6.2	3.5	.30	0	0	.28
AC-FT	251	365	283	297	485	639	692	287	110	4.3	40	42

CAL YR 1973 TOTAL 2,171.59 MEAN 5.95 MAX 23 MIN 0 AC-FT 4,310
WTR YR 1974 TOTAL 1,761.77 MEAN 4.83 MAX 18 MIN 0 AC-FT 3,490

PEAK DISCHARGE (BASE, 45 FT³/S).--No peak above base.

06461000 Minnechaduza Creek at Valentine, Nebr.

LOCATION.--Lat 42°53'10", long 100°33'10", in SW1/4 sec.30, T.34 N., R.27 W., Cherry County, 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.

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

AVERAGE DISCHARGE.--26 years (1948-74), 34.4 ft³/s (0.974 m³/s), 24,920 acre-ft/yr (30.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 171 ft³/s (4.84 m³/s) Jan. 11, gage height, 2.72 ft (0.829 m); minimum daily, 5.8 ft³/s (0.16 m³/s) Aug. 1.
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.

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

REVISIONS.--WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	26	27	33	29	37	42	31	24	11	5.8	19
2	44	27	39	18	35	42	36	25	27	11	11	11
3	36	20	30	23	33	37	41	32	14	18	5.9	10
4	37	35	29	23	29	41	33	27	15	11	13	21
5	28	31	30	21	34	41	43	25	23	13	11	13
6	39	32	22	23	19	46	35	28	24	6.6	12	20
7	17	34	17	23	18	32	33	24	15	10	11	6.6
8	31	35	43	23	44	38	49	24	27	16	9.9	17
9	33	27	40	23	23	36	31	23	29	12	9.7	6.6
10	26	36	21	22	42	27	34	23	31	10	12	15
11	40	40	36	27	35	43	37	26	26	12	13	6.6
12	47	28	41	40	43	42	55	25	30	11	10	29
13	46	33	28	6.6	40	38	35	26	26	12	12	20
14	36	26	37	30	28	35	52	29	23	6.3	17	6.5
15	38	35	22	23	38	42	59	24	24	6.4	22	18
16	33	30	16	31	29	42	60	25	19	10	19	21
17	37	26	43	28	33	30	57	24	18	6.5	21	11
18	28	42	36	54	37	36	53	24	18	9.3	21	23
19	36	22	14	48	40	39	46	22	17	6.7	16	17
20	20	29	22	47	32	34	56	34	18	10	16	20
21	39	30	31	34	40	32	45	44	18	6.2	16	9.2
22	21	34	37	40	35	42	61	33	21	6.2	12	20
23	27	31	32	35	35	27	53	28	20	13	19	28
24	26	27	45	33	29	31	35	23	12	6.5	6.6	20
25	27	27	8.7	43	36	38	38	29	15	8.5	6.5	16
26	26	27	46	40	41	33	45	29	13	6.6	12	16
27	23	36	29	35	44	34	34	24	12	9.7	11	31
28	30	31	27	31	35	30	31	33	13	6.6	6.4	9.2
29	26	29	21	33	------	38	33	27	17	10	16	21
30	22	29	32	34	------	29	31	22	12	12	15	18
31	26	------	28	30	------	36	------	22	------	11	6.4	------
TOTAL	982	915	929.7	954.6	956	1,128	1,293	835	601	305.1	395.2	499.7
MEAN	31.7	30.5	30.0	30.8	34.1	36.4	43.1	26.9	20.0	9.84	12.7	16.7
MAX	47	42	46	54	44	46	61	44	31	18	22	31
MIN	17	20	8.7	6.6	18	27	31	22	12	6.2	5.8	6.5
AC-FT	1,950	1,810	1,840	1,890	1,900	2,240	2,560	1,660	1,190	605	784	991

CAL YR 1973 TOTAL 11,307.0 MEAN 31.0 MAX 93 MIN 5.2 AC-FT 22,430
WTR YR 1974 TOTAL 9,794.3 MEAN 26.8 MAX 61 MIN 5.8 AC-FT 19,430

06461500 Niobrara River near Sparks, Nebr.

LOCATION.--Lat 42°54'10", long 100°21'40", in SE1/4 sec.22, T.34 N., R.26 W., Cherry County, 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 Minnechaduza 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.

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

AVERAGE DISCHARGE.--29 years, 798 ft³/s (22.60 m³/s), 578,200 acre-ft/yr (0.713 km³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,770 ft³/s (50.1 m³/s) Oct. 4, gage height, 3.70 ft (1.128 m); maximum gage height, 6.81 ft (2.076 m) Feb. 9, ice jam; minimum daily discharge, 240 ft³/s (6.80 m³/s) Jan. 1.
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.

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 (see sta 06455000), and since May 1964 by storage in Merritt Reservoir (see sta 06459300).

REVISIONS (WATER YEARS).--WSP 1209: 1947(M), 1948-50(P). WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	882	556	804	240	860	1,010	672	754	627	385	394	462
2	854	552	839	390	900	1,030	630	739	654	385	403	467
3	835	523	842	450	860	1,030	646	750	631	369	436	466
4	831	586	828	500	900	1,060	649	703	600	352	398	508
5	752	576	787	480	780	1,050	622	754	604	358	397	483
6	743	569	760	500	720	1,010	653	723	619	358	419	495
7	741	574	780	560	660	959	810	696	600	359	410	474
8	758	584	798	540	680	769	857	663	605	463	397	485
9	751	564	775	520	760	706	834	667	763	370	398	476
10	746	786	796	500	840	685	845	656	721	369	431	480
11	904	826	813	480	893	730	915	687	757	371	512	460
12	730	800	785	540	943	744	1,230	637	770	380	495	564
13	530	823	760	880	861	735	1,120	637	759	373	456	537
14	530	816	740	1,120	843	715	1,090	599	729	357	454	498
15	582	780	720	1,350	863	726	1,110	508	703	360	537	520
16	573	760	760	1,500	862	705	1,100	608	655	361	475	527
17	596	740	800	1,350	901	669	1,060	637	568	362	468	512
18	575	720	760	1,250	978	660	1,050	647	537	379	458	532
19	604	720	760	1,300	1,010	668	1,030	676	551	391	427	513
20	576	804	640	1,200	1,020	679	1,140	862	569	363	416	527
21	575	824	600	1,100	1,030	638	1,190	793	533	367	438	530
22	570	814	640	920	990	614	1,150	816	472	424	428	524
23	575	782	620	960	982	589	1,130	770	490	414	425	564
24	580	829	540	1,020	985	610	1,060	760	436	394	401	542
25	596	818	500	1,100	986	587	989	774	400	418	404	537
26	570	814	520	1,040	998	577	988	770	421	423	418	540
27	551	818	540	980	1,000	575	970	692	419	387	403	549
28	566	754	500	1,020	1,020	567	911	690	390	368	405	529
29	549	815	440	1,080	------	605	866	701	362	392	427	538
30	529	787	320	900	------	594	822	662	360	410	450	548
31	547	------	280	820	------	635	------	663	------	421	439	------
TOTAL	20,301	21,714	21,047	26,590	25,125	22,931	28,139	21,694	17,305	11,883	13,419	15,387
MEAN	655	724	679	858	897	740	938	700	577	383	433	513
MAX	904	829	842	1,500	1,030	1,060	1,230	862	770	463	537	564
MIN	529	523	280	240	660	567	622	508	360	352	394	460
AC-FT	40,270	43,070	41,750	52,740	49,840	45,480	55,810	43,030	34,320	23,570	26,620	30,520

CAL YR 1973 TOTAL 257,769 MEAN 706 MAX 1,700 MIN 280 AC-FT 511,300
WTR YR 1974 TOTAL 245,535 MEAN 673 MAX 1,500 MIN 240 AC-FT 487,000

06462000 Niobrara River near Norden, Nebr.

LOCATION.--Lat 42°47'13", long 100°02'06", in N1/2SW1/4 sec.33, T.33 N., R.23 W., Keya Paha County, 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.

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.

AVERAGE DISCHARGE.--22 years, 882 ft³/s (24.98 m³/s), 639,000 acre-ft/yr (0.788 km³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, about 1,800 ft³/s (51.0 m³/s) Jan. 16, backwater from ice; maximum gage height, 4.43 ft (1.350 m) Jan. 8, ice jam; minimum daily discharge, 300 ft³/s (8.50 m³/s) Jan. 1.
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.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,040	684	1,080	300	960	1,190	760	812	704	415	440	538
2	1,160	706	1,090	350	1,000	1,220	720	828	712	366	426	577
3	1,100	726	1,100	500	940	1,260	740	860	679	378	447	552
4	1,100	764	1,040	540	1,000	1,270	760	780	671	396	426	570
5	948	759	1,000	520	900	1,290	720	773	702	383	440	582
6	892	770	900	540	800	1,240	790	772	705	378	412	573
7	852	746	960	620	740	1,190	924	740	696	356	424	600
8	820	769	1,000	600	760	880	980	716	722	434	427	567
9	794	749	960	580	840	820	908	764	1,010	446	463	579
10	797	945	1,000	560	940	780	924	748	923	402	462	571
11	940	1,030	1,020	540	1,000	840	988	780	859	403	568	575
12	1,020	1,010	1,020	620	1,060	860	1,370	756	893	398	538	682
13	627	1,010	1,000	980	1,140	840	1,240	748	853	398	497	694
14	607	1,010	960	1,250	1,000	820	1,200	780	822	392	506	633
15	626	1,020	900	1,500	1,000	840	1,140	724	792	386	573	602
16	623	1,010	940	1,700	1,060	820	1,130	692	761	379	567	612
17	615	1,000	980	1,550	1,100	780	1,110	676	673	372	559	608
18	602	1,020	940	1,400	1,140	760	1,040	700	626	386	534	579
19	605	1,070	860	1,500	1,200	780	1,050	700	614	398	512	589
20	608	1,040	800	1,400	1,200	780	1,140	820	629	433	487	579
21	611	1,040	760	1,300	1,200	740	1,290	940	632	461	497	615
22	615	1,080	800	1,100	1,140	700	1,280	892	585	447	501	590
23	618	1,040	780	1,150	1,120	680	1,210	884	543	454	494	595
24	666	1,080	700	1,200	1,100	720	1,160	836	530	426	493	615
25	669	1,070	660	1,250	1,080	680	1,110	820	479	433	463	595
26	615	1,090	680	1,200	1,080	660	1,080	828	496	392	490	586
27	612	1,080	700	1,100	1,100	660	1,020	764	447	386	473	573
28	627	1,080	660	1,150	1,140	640	988	732	437	386	472	609
29	626	1,090	600	1,200	------	700	932	764	422	392	477	565
30	631	1,070	450	1,000	------	680	916	724	404	433	510	564
31	637	------	350	900	------	720	------	700	------	503	516	------
TOTAL	23,303	28,558	26,690	30,100	28,740	26,840	30,620	24,053	20,021	12,612	15,094	17,769
MEAN	752	952	861	971	1,026	866	1,021	776	667	407	487	592
MAX	1,160	1,090	1,100	1,700	1,200	1,290	1,370	940	1,010	503	573	694
MIN	602	684	350	300	740	640	720	676	404	356	412	538
AC-FT	46,220	56,640	52,940	59,700	57,010	53,240	60,730	47,710	39,710	25,020	29,940	35,240

CAL YR 1973 TOTAL 303,762 MEAN 832 MAX 2,100 MIN 350 AC-FT 602,500
WTR YR 1974 TOTAL 284,400 MEAN 779 MAX 1,700 MIN 300 AC-FT 564,100

06462500 Plum Creek at Meadville, Nebr.

LOCATION.--Lat 42°45'05", long 99°52'05", in NE1/4NW1/4 sec.14, T.32 N., R.22 W., Brown County, on left bank 0.4 mi (0.6 km) upstream from county road bridge, 1 mi (2 km) upstream from mouth, 1 mi (2 km) southwest of Meadville, and 17 mi (27 km) north of Ainsworth.

DRAINAGE AREA.--600 mi² (1,550 km²), approximately, of which about 340 mi² (880 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--December 1947 to current year. Prior to October 1962, published as "near Meadville."

GAGE.--Water-stage recorder. Altitude of gage is 2,035 ft (620.3 m), from topographic map. Prior to Nov. 25, 1962, at site 6.5 mi (10.5 km) upstream at different datum. Nov. 25, 1962, to Nov. 14, 1966, at present site at datum 1.0 ft (0.30 m) higher.

AVERAGE DISCHARGE.--26 years (1948-74), 108 ft³/s (3.059 m³/s), 78,250 acre-ft/yr (96.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 220 ft³/s (6.23 m³/s) Mar. 3, gage height, 2.53 ft (0.771 m); maximum gage height, 4.84 ft (1.475 m) Jan. 12, backwater from ice; minimum daily discharge, 73 ft³/s (2.07 m³/s) July 20.
Period of record: Maximum discharge, 2,070 ft³/s (58.6 m³/s) Sept. 18, 1967, gage height, 4.98 ft (1.518 m); maximum gage height observed, 7.54 ft (2.298 m) Dec. 6, 1964, backwater from ice, present datum; minimum daily discharge, 15 ft³/s (0.42 m³/s) Feb. 19, 1955.

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

REVISIONS (WATER YEARS).--WSP 1729: 1953. WSP 1917: 1953.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	116	130	90	119	180	135	126	106	112	84	105
2	119	116	134	80	118	186	129	123	107	116	85	104
3	113	115	131	75	123	199	126	124	105	112	86	89
4	108	119	128	76	117	186	122	124	103	112	86	89
5	106	120	124	76	118	174	119	118	102	105	86	103
6	106	121	115	80	120	170	121	111	102	100	86	109
7	103	126	117	80	110	164	123	107	98	95	92	99
8	105	130	120	85	100	158	123	113	100	92	93	98
9	105	131	114	85	110	148	123	107	164	90	93	99
10	101	132	112	90	119	143	125	131	198	88	99	95
11	115	131	112	95	118	142	132	95	167	88	101	93
12	120	130	113	100	116	139	161	95	149	86	93	95
13	117	129	114	105	118	133	169	105	136	84	89	107
14	120	129	115	120	123	140	178	118	136	82	90	113
15	119	128	115	130	124	138	177	74	134	82	100	112
16	115	125	116	150	123	132	171	96	126	80	109	106
17	117	125	117	170	130	131	160	99	117	78	129	105
18	114	122	121	190	137	133	153	101	124	76	124	108
19	113	122	100	180	145	130	144	106	123	74	112	108
20	112	128	105	174	148	123	151	109	125	73	90	104
21	110	120	120	176	149	119	156	136	112	74	87	102
22	112	120	129	158	126	121	151	116	110	75	87	100
23	112	125	123	140	129	118	148	107	108	74	83	97
24	112	125	122	131	129	112	142	103	108	76	79	98
25	113	125	124	133	132	115	140	103	122	76	93	99
26	113	130	122	134	139	120	140	103	119	78	95	97
27	109	132	124	137	150	121	137	103	110	80	93	90
28	110	130	123	133	162	128	134	104	108	80	103	90
29	110	130	120	131	------	131	130	117	112	80	109	90
30	111	130	115	125	------	133	129	119	116	80	107	93
31	112	------	100	125	------	132	------	109	------	86	97	------
TOTAL	3,472	3,762	3,675	3,754	3,552	4,399	4,249	3,402	3,647	2,684	2,960	2,997
MEAN	112	125	119	121	127	142	142	110	122	86.6	95.5	99.9
MAX	120	132	134	190	162	199	178	136	198	116	129	113
MIN	101	115	100	75	100	112	119	74	98	73	79	89
AC-FT	6,890	7,460	7,290	7,450	7,050	8,730	8,430	6,750	7,230	5,320	5,870	5,940

CAL YR 1973 TOTAL 43,258 MEAN 119 MAX 326 MIN 80 AC-FT 85,800
WTR YR 1974 TOTAL 42,553 MEAN 117 MAX 199 MIN 73 AC-FT 84,400

PEAK DISCHARGE (BASE, 300 FT³/S).--No peak above base.

06463500 Long Pine Creek near Riverview, Nebr.

LOCATION.--Lat 42°41'20", long 99°41'20", in N1/2 sec.5, T.31 N., R.20 W., Brown County, 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.

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.

AVERAGE DISCHARGE.--25 years (1948-53, 1954-74), 134 ft³/s (3.795 m³/s), 97,080 acre-ft/yr (0.120 km³/yr).

EXTREMES.--Current year: Maximum discharge, 420 ft³/s (11.9 m³/s) June 9, gage height, 4.31 ft (1.314 m); maximum gage height, 4.88 ft (1.487 m) Oct. 12; minimum daily discharge, 120 ft³/s (3.40 m³/s) Dec. 29 to Jan. 1.
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.

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

REVISIONS (WATER YEARS).--WSP 1729: 1952(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	135	154	120	138	217	144	143	157	156	140	167
2	145	134	154	122	140	221	142	150	156	166	146	168
3	139	135	150	122	138	194	143	147	155	149	152	160
4	134	137	147	125	139	174	142	138	154	161	152	150
5	138	138	138	120	139	165	143	138	147	152	160	141
6	135	142	124	120	134	161	141	140	139	134	152	135
7	134	143	142	122	130	158	142	140	141	132	142	135
8	136	147	146	125	136	151	142	144	147	135	135	144
9	131	143	133	125	135	150	141	162	300	166	140	143
10	126	146	135	125	138	146	139	192	324	149	156	135
11	166	149	144	125	141	155	153	167	288	141	170	136
12	211	154	143	125	144	153	195	171	231	140	170	148
13	175	151	138	130	148	152	233	171	196	133	164	151
14	158	147	137	140	150	152	200	154	178	131	152	150
15	142	149	127	150	153	150	181	154	169	130	141	150
16	130	144	132	170	149	143	170	152	162	129	143	149
17	129	146	142	200	157	145	165	146	158	127	145	147
18	131	143	140	185	161	146	162	154	162	134	164	146
19	127	146	123	172	160	145	161	161	148	136	166	148
20	130	138	128	168	164	143	166	159	143	132	157	147
21	134	146	140	160	160	144	173	165	137	125	150	147
22	132	154	141	150	147	148	171	154	136	126	142	148
23	132	153	141	147	149	143	165	147	143	127	138	147
24	137	155	136	147	147	138	159	141	148	124	138	149
25	141	150	137	147	152	137	151	142	150	130	145	153
26	135	157	135	149	162	136	149	139	136	132	142	154
27	133	154	130	142	175	139	157	138	139	129	163	155
28	130	154	125	141	196	138	145	135	149	127	161	156
29	135	151	120	141	------	140	142	168	145	129	164	155
30	133	154	120	143	------	139	143	167	143	130	163	154
31	135	------	120	137	------	142	------	162	------	138	153	------
TOTAL	4,357	4,395	4,222	4,395	4,182	4,765	4,760	4,741	5,081	4,250	4,706	4,468
MEAN	141	147	136	142	149	154	159	153	169	137	152	149
MAX	211	157	154	200	196	221	233	192	324	166	170	168
MIN	126	134	120	120	130	136	139	135	136	124	135	135
AC-FT	8,640	8,720	8,370	8,720	8,290	9,450	9,440	9,400	10,080	8,430	9,330	8,860

CAL YR 1973 TOTAL 54,886 MEAN 150 MAX 670 MIN 82 AC-FT 108,900
WTR YR 1974 TOTAL 54,322 MEAN 149 MAX 324 MIN 120 AC-FT 107,700

PEAK DISCHARGE (BASE, 400 FT³/S).--June 9 (2200) 420 ft³/s (4.31 ft).

06464500 Keya Paha River at Wewela, S. Dak.

LOCATION.--Lat 43°01'42", long 99°46'45", in SE1/4 sec.24, T.95 N., R.76 W., Tripp County, 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.

AVERAGE DISCHARGE.--29 years (1938-40, 1947-74), 69.8 ft³/s (1.977 m³/s), 50,570 acre-ft/yr (62.4 hm³/yr); median of yearly mean discharges, 58 ft³/s (1.643 m³/s), 42,000 acre-ft/yr (51.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 212 ft³/s (6.00 m³/s) June 10, gage height, 2.47 ft (0.753 m); maximum gage height, 2.86 ft (0.872 m) Jan. 22, backwater from ice; minimum daily discharge, 4.9 ft³/s (0.14 m³/s) July 29.
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.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	45	45	10	34	95	67	45	38	16	8.9	8.3
2	65	45	45	10	30	85	70	40	35	16	8.5	11
3	56	46	44	11	30	82	65	37	34	16	8.3	12
4	48	50	35	11	31	76	58	37	31	16	8.6	13
5	43	50	30	12	32	70	61	37	32	17	8.7	12
6	40	51	28	12	31	68	58	35	29	17	8.7	12
7	39	54	30	12	30	62	54	35	28	16	8.1	11
8	37	55	35	12	29	61	50	35	28	16	7.6	11
9	37	56	36	11	29	61	49	39	87	16	7.9	10
10	36	57	36	10	30	57	49	38	160	15	9.7	9.9
11	47	57	35	9.0	40	58	55	42	127	14	11	9.5
12	63	55	34	8.0	50	60	76	38	86	13	11	12
13	77	55	34	8.0	47	65	100	40	68	12	11	14
14	79	54	33	9.0	47	69	100	38	57	11	10	17
15	71	54	33	10	47	65	97	36	46	11	9.7	18
16	64	54	32	12	48	62	92	36	42	11	9.5	17
17	58	55	31	30	50	62	85	33	36	9.5	9.7	16
18	57	56	30	50	50	65	75	32	35	9.0	9.6	15
19	55	58	30	48	55	60	67	31	33	8.0	9.8	14
20	52	50	30	40	55	57	67	39	30	7.6	9.9	13
21	49	45	32	35	50	54	68	66	28	6.8	9.2	14
22	47	40	34	32	50	58	72	91	26	6.0	8.5	14
23	45	41	32	30	50	57	77	74	24	6.0	7.9	14
24	45	42	32	30	48	61	73	63	22	6.0	7.5	15
25	46	42	31	31	50	61	73	60	20	6.5	7.1	14
26	45	43	30	31	60	67	70	52	19	6.2	6.6	14
27	46	43	28	32	90	60	77	45	18	5.2	5.9	14
28	47	44	26	32	100	59	62	41	18	5.3	5.9	13
29	47	44	24	33	------	61	56	41	17	4.9	6.4	14
30	46	44	20	33	------	62	50	40	16	5.5	6.7	14
31	46	------	15	35	------	63	------	38	------	7.4	6.9	------
TOTAL	1,603	1,485	990	689.0	1,293	2,003	2,073	1,354	1,270	332.9	264.8	395.7
MEAN	51.7	49.5	31.9	22.2	46.2	64.6	69.1	43.7	42.3	10.7	8.54	13.2
MAX	79	58	45	50	100	95	100	91	160	17	11	18
MIN	36	40	15	8.0	29	54	49	31	16	4.9	5.9	8.3
AC-FT	3,180	2,950	1,960	1,370	2,560	3,970	4,110	2,690	2,520	660	525	785

CAL YR 1973 TOTAL 24,477.0 MEAN 67.1 MAX 515 MIN 13 AC-FT 48,550
WTR YR 1974 TOTAL 13,753.4 MEAN 37.7 MAX 160 MIN 4.9 AC-FT 27,280

PEAK DISCHARGE (BASE, 250 FT³/S).--No peak above base.

06464900 Keya Paha River near Naper, Nebr.

LOCATION.--Lat 42°55'00", long 99°05'50", in SE1/4SE1/4 sec.17, T.34 N., R.15 W., Boyd County, 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.

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.

AVERAGE DISCHARGE.--17 years, 137 ft³/s (3.880 m³/s), 99,260 acre-ft/yr (0.122 km³/yr); median of yearly mean discharges, 120 ft³/s (3.398 m³/s), 86,900 acre-ft/yr (0.107 km³/yr).

EXTREMES.--Current year: Maximum discharge, 1,180 ft³/s (33.4 m³/s) June 9, gage height, 6.56 ft (1.999 m); maximum gage height, 7.38 ft (2.249 m) Jan. 17, backwater from ice; minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Aug. 26.
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; minimum daily discharge, 0.70 ft³/s (0.020 m³/s) Sept. 9, 12, 1970.

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

REVISIONS (WATER YEARS).--WSP 1709: 1959(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	79	140	32	102	290	200	110	78	33	3.7	2.0
2	157	87	150	29	108	330	201	105	75	32	2.7	2.5
3	132	95	142	30	98	325	176	108	75	27	2.4	4.5
4	98	105	125	32	104	280	155	109	67	27	2.3	4.9
5	82	106	106	34	104	231	142	101	80	26	4.7	5.0
6	73	108	34	34	90	215	146	87	130	20	8.6	7.5
7	70	113	56	35	90	205	138	84	90	14	9.0	7.2
8	69	109	100	36	96	180	121	82	83	13	9.0	7.7
9	79	115	110	36	98	172	110	149	595	15	7.4	8.4
10	86	124	104	36	96	158	100	140	986	10	4.2	9.7
11	126	121	108	35	100	169	130	104	660	7.4	3.7	8.7
12	254	116	110	37	106	175	264	96	528	5.4	2.4	13
13	227	110	100	39	112	174	319	102	420	5.0	2.1	21
14	193	107	96	43	106	195	264	98	284	4.5	1.8	23
15	163	118	100	50	110	197	284	92	216	4.2	3.7	22
16	124	117	108	70	120	170	252	99	164	3.7	2.0	22
17	106	114	110	180	135	170	210	95	134	3.2	4.7	22
18	103	114	102	300	135	159	184	93	117	2.9	4.7	22
19	103	110	94	190	135	146	155	99	107	2.7	5.8	20
20	106	96	94	140	135	142	159	101	97	2.4	4.5	21
21	102	82	100	120	130	130	205	155	86	2.5	5.4	20
22	98	78	104	110	125	130	169	151	75	2.9	4.5	21
23	102	82	100	114	120	134	159	159	70	2.1	2.4	22
24	107	90	94	110	120	100	146	164	65	2.0	1.6	21
25	108	96	80	110	135	114	138	114	60	2.1	1.3	20
26	91	104	70	102	190	153	151	107	51	1.8	1.1	21
27	81	110	60	100	250	158	210	103	47	2.0	1.8	21
28	76	125	50	104	250	163	190	97	45	2.0	1.6	20
29	75	135	42	108	------	180	151	97	41	2.0	1.7	22
30	76	145	35	100	------	169	123	107	37	2.0	1.6	22
31	78	------	33	94	------	158	------	90	------	4.2	1.4	------
TOTAL	3,522	3,211	2,857	2,590	3,500	5,672	5,352	3,398	5,563	284.0	113.8	465.1
MEAN	114	107	92.2	83.5	125	183	178	110	185	9.16	3.67	15.5
MAX	254	145	150	300	250	330	319	164	986	33	9.0	23
MIN	69	78	33	29	90	100	100	82	37	1.8	1.1	2.0
AC-FT	6,990	6,370	5,670	5,140	6,940	11,250	10,620	6,740	11,030	563	226	923

CAL YR 1973 TOTAL 51,846.5 MEAN 142 MAX 1,050 MIN 5.4 AC-FT 102,800
WTR YR 1974 TOTAL 36,527.9 MEAN 100 MAX 986 MIN 1.1 AC-FT 72,450

PEAK DISCHARGE (BASE, 900 FT³/S).--June 9 (1930) 1,180 ft³/s (6.56 ft).

06465000 Niobrara River near Spencer, Nebr.

LOCATION.--Lat 42°48'33", long 98°30'19", in SE1/4NW1/4 sec.30, T.33 N., R.11 W., Boyd County, 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 WSP 1309.

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, 1974, discharge computed as flow through powerhouse and over dam.

AVERAGE DISCHARGE.--44 years (1913-14, 1927-36, 1940-74), 1,404 ft³/s (39.76 m³/s), 1,017,000 acre-ft/yr (1.25 km³/yr).

EXTREMES.--Current year: Maximum daily discharge, 3,720 ft³/s (105 m³/s) Oct. 1; minimum daily, 427 ft³/s (12.1 m³/s) July 30.
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, 19, 1940.

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.

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

REVISIONS.--WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,720	1,300	1,620	1,030	1,890	2,730	1,460	1,480	1,270	681	743	825
2	2,460	1,360	1,720	923	1,870	3,200	1,520	1,400	1,300	667	716	900
3	1,800	1,360	1,700	653	1,870	2,590	1,550	1,450	1,210	698	677	904
4	1,760	1,430	1,640	627	1,810	2,280	1,410	1,430	1,100	704	651	841
5	1,610	1,440	1,230	756	1,860	2,050	1,400	1,380	1,160	671	642	765
6	1,480	1,430	440	725	1,760	1,990	1,330	1,330	1,180	642	584	773
7	1,430	1,430	992	812	1,610	1,900	1,280	1,330	1,190	565	611	942
8	1,470	1,430	1,700	875	1,470	1,880	1,390	1,320	1,250	534	710	1,240
9	1,680	1,410	2,040	956	1,300	1,710	1,490	1,560	2,520	582	734	1,130
10	1,900	1,430	1,040	1,010	1,430	1,470	1,410	1,570	3,460	619	703	689
11	2,020	1,420	1,310	1,060	1,550	1,550	1,690	1,510	2,600	682	834	776
12	2,540	1,680	1,760	1,060	1,850	1,620	2,400	1,410	2,010	596	734	981
13	2,250	1,660	1,230	1,060	2,080	1,590	2,430	1,430	1,700	581	716	1,070
14	1,710	1,620	972	1,080	2,010	1,590	2,390	1,460	1,490	565	714	990
15	1,500	1,850	1,030	1,130	1,930	1,550	2,070	1,430	1,420	562	764	910
16	1,430	1,740	911	1,400	2,120	1,480	2,020	1,370	1,360	566	718	868
17	1,400	1,700	759	1,790	2,360	1,480	1,930	1,360	1,280	536	906	836
18	1,370	1,670	976	2,460	2,800	1,500	1,780	1,330	1,170	509	942	848
19	1,380	1,570	1,070	2,430	2,780	1,440	1,660	1,350	1,080	511	848	844
20	1,280	1,730	912	2,270	2,810	1,600	1,740	1,210	1,020	539	766	909
21	1,300	1,380	912	2,260	2,640	1,690	2,020	1,590	1,040	512	754	934
22	1,350	1,480	961	2,140	1,870	1,530	1,980	1,880	1,070	531	742	910
23	1,210	2,030	1,100	2,090	1,920	1,250	1,890	1,440	1,020	529	696	875
24	1,350	1,820	1,190	2,020	1,580	1,250	1,890	1,390	1,590	468	674	837
25	1,610	1,720	1,130	2,050	1,680	1,460	1,850	1,400	1,280	457	648	837
26	1,350	1,800	1,290	2,080	2,050	1,430	1,790	1,350	1,250	550	616	870
27	1,330	1,690	1,440	2,000	2,670	1,430	1,920	1,340	776	526	704	872
28	1,270	1,680	1,440	2,020	2,700	1,450	1,800	1,250	759	570	699	940
29	1,250	1,730	1,500	2,070	------	1,360	1,700	1,330	694	445	740	908
30	1,280	1,710	1,350	2,240	------	1,390	1,660	1,550	701	427	724	941
31	1,260	------	1,170	2,080	------	1,380	------	1,470	------	632	727	------
TOTAL	50,750	47,700	38,535	47,157	56,270	52,820	52,850	44,100	40,950	17,657	22,437	26,965
MEAN	1,637	1,590	1,243	1,521	2,010	1,704	1,762	1,423	1,365	570	724	899
MAX	3,720	2,030	2,040	2,460	2,810	3,200	2,430	1,880	3,460	704	942	1,240
MIN	1,210	1,300	440	627	1,300	1,250	1,280	1,210	694	427	584	689
AC-FT	100,700	94,610	76,430	93,540	111,600	104,800	104,800	87,470	81,220	35,020	44,500	53,490

CAL YR 1973 TOTAL 567,946 MEAN 1,556 MAX 4,710 MIN 440 AC-FT 1,127,000
WTR YR 1974 TOTAL 498,191 MEAN 1,365 MAX 3,720 MIN 427 AC-FT 988,200

06465500 Niobrara River near Verdel, Nebr.

LOCATION.--Lat 42°44'25", long 98°12'45", near center of N1/2 sec.23, T.32 N., R.8 W., Knox County, 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.

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

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.

AVERAGE DISCHARGE.--17 years, 1,542 ft³/s (43.67 m³/s), 1,117,000 acre-ft/yr (1.38 km³/yr).

EXTREMES.--Current year: Maximum discharge, about 4,500 ft³/s (127 m³/s) Oct. 1, gage height, 4.24 ft (1.292 m), occurred on recession following peak of Sept. 29, 1973; maximum independent peak discharge, 3,710 ft³/s (105 m³/s) June 9, gage height, 4.86 ft (1.481 m); maximum gage height, 7.12 ft (2.170 m) Jan. 17, backwater from ice; minimum daily discharge, 434 ft³/s (12.3 m³/s) July 19.
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.

REMARKS.--Records poor. Natural flow of stream affected by irrigation and power developments. Records of water temperatures and fluvial sediments for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,800	1,850	1,920	1,140	1,950	2,900	1,650	1,490	1,650	618	800	1,040
2	2,700	1,790	1,850	1,040	1,950	3,350	1,700	1,360	1,600	608	838	1,070
3	2,400	1,760	1,940	740	1,800	2,240	1,700	1,320	1,620	646	753	1,060
4	2,040	1,860	1,900	700	1,650	2,400	1,650	1,290	1,820	627	731	998
5	1,850	2,060	1,500	840	1,850	2,580	1,700	1,250	1,900	656	731	862
6	1,800	1,880	700	820	1,700	2,270	1,650	1,260	1,980	618	764	825
7	1,640	1,860	800	900	1,600	2,100	1,580	1,310	1,910	580	753	862
8	1,840	2,140	1,600	980	1,600	2,050	1,480	1,310	1,920	530	825	900
9	2,120	2,090	2,400	1,060	1,400	1,950	1,650	1,630	2,810	506	1,040	850
10	2,350	2,170	1,300	1,100	1,450	1,700	1,510	1,810	2,890	514	956	875
11	2,160	1,880	1,600	1,140	1,500	1,800	1,680	1,520	2,520	546	998	687
12	2,440	2,090	1,900	1,140	1,900	1,900	2,500	1,450	2,210	580	1,180	928
13	2,130	2,250	1,400	1,140	2,150	1,950	2,600	1,430	2,140	546	914	942
14	1,790	2,090	1,100	1,200	2,100	1,950	2,600	1,400	1,860	514	875	998
15	1,570	2,250	1,100	1,250	2,000	1,950	2,200	1,370	1,750	498	900	984
16	1,580	2,290	1,040	1,550	2,200	1,900	2,300	1,430	1,860	506	1,030	928
17	1,560	2,260	880	2,000	2,500	2,000	2,400	1,410	1,690	483	1,060	888
18	1,330	2,430	1,060	2,700	2,900	2,100	2,100	1,510	1,420	455	1,330	914
19	1,320	2,450	1,160	2,700	2,900	2,200	1,800	1,520	1,120	434	1,120	888
20	1,620	2,580	1,040	2,600	2,900	2,260	1,900	1,630	984	441	1,010	914
21	1,670	2,130	1,040	2,500	2,800	2,120	2,200	1,920	998	455	1,010	998
22	1,840	2,460	1,080	2,300	2,000	1,930	2,100	2,240	1,090	455	888	956
23	1,610	3,120	1,200	2,250	2,000	1,500	2,000	1,550	1,070	514	850	900
24	1,860	2,940	1,300	2,150	1,700	1,600	2,000	1,510	1,090	506	775	838
25	1,810	1,980	1,250	2,200	1,750	1,650	1,950	1,690	1,070	554	764	850
26	1,650	1,780	1,400	2,200	2,200	1,700	1,900	1,670	1,040	618	709	942
27	1,600	1,880	1,550	2,050	2,700	1,700	1,900	1,830	812	562	812	928
28	1,680	1,860	1,550	2,050	2,800	1,700	1,820	1,870	788	570	928	970
29	1,700	2,040	1,600	2,150	------	1,550	1,720	1,980	698	627	942	900
30	1,830	2,050	1,450	2,200	------	1,600	1,570	1,920	646	618	914	753
31	2,010	------	1,250	1,950	------	1,600	------	1,750	------	709	942	------
TOTAL	59,300	64,270	42,860	50,740	57,950	62,200	57,510	48,630	46,956	17,094	28,142	27,448
MEAN	1,913	2,142	1,383	1,637	2,070	2,006	1,917	1,569	1,565	551	908	915
MAX	3,800	3,120	2,400	2,700	2,900	3,350	2,600	2,240	2,890	709	1,330	1,070
MIN	1,320	1,760	700	700	1,400	1,500	1,480	1,250	646	434	709	687
AC-FT	117,600	127,500	85,010	100,600	114,900	123,400	114,100	96,460	93,140	33,910	55,820	54,440

CAL YR 1973 TOTAL 646,586 MEAN 1,771 MAX 6,510 MIN 593 AC-FT 1,283,000
WTR YR 1974 TOTAL 563,100 MEAN 1,543 MAX 3,800 MIN 434 AC-FT 1,117,000

06466500 Bazile Creek near Niobrara, Nebr.

LOCATION.--Lat 42°45'00", long 97°56'10", in NE1/4 sec.18, T.32 N., R.5 W., Knox County, 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 WSP 731, have been found to be unreliable and should not be used.

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.

AVERAGE DISCHARGE.--22 years, 89.0 ft³/s (2.520 m³/s), 64,480 acre-ft/yr (79.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 243 ft³/s (6.88 m³/s) Oct. 1, gage height, 11.72 ft (3.572 m), occurred on recession following peak of Sept. 28, 1973; maximum independent peak discharge, 219 ft³/s (6.20 m³/s) June 11, gage height, 12.05 ft (3.673 m); maximum gage height observed, 15.80 ft (4.816 m) Jan. 19, ice jam; minimum daily discharge, 5.5 ft³/s (0.16 m³/s) July 27.
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; minimum daily discharge, 0.60 ft³/s (0.017 m³/s) Aug. 14, 1970.
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.

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

REVISIONS (WATER YEARS).--WSP 1279: 1952. WSP 1729: 1958(M). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	62	85	38	110	95	87	65	56	25	30	33
2	125	62	93	46	114	118	87	62	50	24	27	35
3	99	62	87	44	110	120	108	65	44	34	23	35
4	83	67	91	48	130	115	91	63	40	35	19	34
5	75	69	80	46	108	108	95	63	33	31	17	31
6	65	71	66	50	90	99	151	60	35	21	15	26
7	65	73	70	54	80	89	142	60	38	17	14	26
8	63	75	68	50	90	93	103	60	40	12	26	25
9	67	75	62	46	100	97	108	75	97	13	108	25
10	69	77	66	44	100	91	105	79	184	14	95	22
11	87	75	68	42	110	108	110	97	181	12	65	21
12	81	75	64	46	110	105	108	91	89	12	41	37
13	79	69	60	52	100	115	97	93	58	9.7	35	37
14	71	75	58	58	90	99	87	75	60	8.8	34	30
15	67	73	50	62	100	93	83	67	50	9.1	37	27
16	65	83	54	140	106	89	81	60	44	8.8	34	25
17	67	79	60	124	110	77	79	56	41	7.0	37	23
18	65	73	56	110	106	83	77	62	38	6.5	38	23
19	63	65	54	120	96	73	73	63	38	6.5	34	21
20	60	79	48	100	77	73	79	56	35	6.5	30	23
21	58	97	54	94	87	56	77	60	34	7.0	33	25
22	58	105	56	98	79	79	71	55	35	6.0	31	25
23	58	93	54	106	62	45	65	51	34	5.8	30	24
24	62	95	50	110	86	42	69	45	33	6.0	27	23
25	73	97	52	114	94	79	67	47	32	6.5	26	23
26	67	95	54	110	103	83	73	47	31	6.2	25	21
27	65	97	50	104	97	81	73	45	28	5.5	33	21
28	62	95	47	114	103	103	73	45	26	5.8	34	23
29	62	85	48	116	------	101	67	53	25	5.8	32	24
30	60	87	44	120	------	87	63	63	23	5.8	30	25
31	60	------	40	104	------	91	------	63	------	9.4	30	------
TOTAL	2,275	2,385	1,889	2,510	2,748	2,787	2,649	1,946	1,552	382.7	1,090	793
MEAN	73.4	79.5	60.9	81.0	98.1	89.9	88.3	62.8	51.7	12.3	35.2	26.4
MAX	174	105	93	140	130	120	151	97	184	35	108	37
MIN	58	62	40	38	62	42	63	45	23	5.5	14	21
AC-FT	4,510	4,730	3,750	4,980	5,450	5,530	5,250	3,860	3,080	759	2,160	1,570

CAL YR 1973 TOTAL 42,516.0 MEAN 116 MAX 1,350 MIN 12 AC-FT 84,330
WTR YR 1974 TOTAL 23,006.7 MEAN 63.0 MAX 184 MIN 5.5 AC-FT 45,630

PEAK DISCHARGE (BASE, 2,000 FT³/S).--No peak above base.

06467000 Lewis and Clark Lake near Yankton, S. Dak. 1974

LOCATION.--Lat 42°50'56", long 97°28'54", in SW1/4 sec.7, T.33 N., R.1 W., Cedar County, Nebr., 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. 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.

EXTREMES.--Current year: Maximum contents, 484,000 acre-ft (0.597 km³) Jan. 20; maximum elevation, 1,208.8 ft (368.44 m) Sept. 14; minimum contents, 354,000 acre-ft (0.436 km³) Mar. 21, elevation, 1,204.2 ft (367.04 m).

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).

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 (368.81 m), top of spillway gates. Normal maximum, 477,000 acre-ft (0.588 km³) below elevation 1,208.0 ft (368.20 m). Inactive storage, 156,000 acre-ft (0.192 km³) below elevation 1,195.0 ft (364.24 m). Dead storage, 18,000 acre-ft (22.2 hm³) below elevation 1,180.0 ft (359.66 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 (368.81 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 (368.81 m). Water is used for flood control, navigation, power, and incidental uses.

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

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	1,208.2	463,000	-
Oct. 31	1,208.2	463,000	0
Nov. 30	1,207.9	458,000	-5,000
Dec. 31	1,208.0	459,000	+1,000
CAL YR 1973	-	-	+18,000
Jan. 31	1,207.6	449,000	-10,000
Feb. 28	1,205.2	383,000	-66,000
Mar. 31	1,205.3	384,000	+1,000
Apr. 30	1,204.3	355,000	-29,000
May 31	1,205.5	388,000	+33,000
June 30	1,205.9	400,000	+12,000
July 31	1,207.7	451,000	+51,000
Aug. 31	1,208.1	462,000	+11,000
Sept. 30	1,208.1	462,000	0
WTR YR 1974	-	-	-1,000

06467500 Missouri River at Yankton, S. Dak.

LOCATION.--Lat 42°51'58", long 97°23'37", in SW1/4SW1/4 sec.18, T.93 N., R.55 W., Yankton County, near left bank in downstream end of left pier of Merilian 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.

AVERAGE DISCHARGE.--44 years, 25,560 ft³/s (723.9 m³/s), 18,520,000 acre-ft/yr (22.8 km³/yr).

EXTREMES.--Current year: Maximum discharge, 38,000 ft³/s (1,080 m³/s) July 24, gage height, 20.30 ft (6.187 m); minimum daily, 16,800 ft³/s (476 m³/s) many days December to January.
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; minimum daily discharge, 2,700 ft³/s (76.5 m³/s) Nov. 15, 16, 1940. Maximum stage known, 50.5 ft (15.39 m) Apr. 5, 1881, ice jam, present datum.

REMARKS.--Records good. Flow completely regulated by Lewis and Clark Lake 5.2 mi (8.4 km) upstream since July 1955. (See sta 06467000.) Many diversions for irrigation and water supply above station. Water-quality records for the water year 1974 are published in Part 2 of WRD S. Dak. 1974.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31,100	31,000	17,600	17,100	18,100	18,100	29,400	30,200	31,400	32,400	37,200	34,600
2	31,000	31,000	17,600	17,200	18,000	18,100	29,600	30,000	30,900	32,300	37,000	34,600
3	30,800	30,900	17,600	17,200	17,800	18,000	30,200	30,000	30,300	32,700	37,000	34,500
4	30,700	30,900	17,600	17,200	18,000	18,000	29,700	30,200	30,900	33,800	37,000	34,600
5	30,900	31,000	17,400	17,000	18,000	18,100	29,500	30,100	30,100	34,000	37,000	34,500
6	30,900	31,000	17,500	16,800	17,900	18,100	29,800	30,200	30,400	34,100	37,000	34,500
7	30,900	31,000	17,500	16,800	17,900	18,200	29,500	30,000	30,800	34,100	37,000	35,000
8	30,900	30,900	17,500	16,800	17,800	18,200	29,700	28,500	30,800	34,000	37,100	35,200
9	30,800	30,900	17,400	16,900	17,800	18,200	29,800	29,300	30,500	35,000	37,000	35,200
10	28,200	31,000	17,700	16,900	17,800	18,200	29,800	29,300	29,600	35,200	37,000	35,700
11	24,800	30,900	17,600	17,000	17,800	18,100	30,000	28,900	29,200	35,200	37,100	35,800
12	23,900	30,900	17,600	17,200	17,800	18,200	29,600	29,600	29,600	35,000	36,800	35,200
13	22,800	30,800	17,500	17,100	17,800	17,900	29,700	30,300	29,000	35,100	36,500	34,600
14	22,700	30,900	17,000	17,200	17,900	17,900	29,600	30,100	30,000	35,000	36,200	34,600
15	23,300	30,800	17,000	17,200	17,900	17,900	29,800	30,800	30,000	36,000	35,000	34,700
16	23,300	30,900	17,000	17,100	17,900	18,000	30,100	30,000	30,000	37,200	33,800	34,800
17	24,100	30,800	17,100	17,000	17,900	18,100	30,200	30,000	30,000	37,000	33,700	34,600
18	24,300	30,800	17,200	16,900	17,900	21,000	30,300	29,900	30,000	37,400	33,800	35,000
19	24,300	30,800	17,200	16,800	18,100	24,000	30,500	27,000	30,000	37,100	34,000	34,600
20	24,400	30,400	17,000	16,800	18,100	26,800	30,400	25,300	30,400	37,300	33,800	34,600
21	24,500	30,400	16,900	16,800	18,200	28,000	30,800	28,600	30,300	36,500	33,800	35,300
22	24,600	30,400	16,800	16,800	18,200	28,900	30,800	31,700	30,800	36,800	33,800	36,100
23	24,600	29,600	16,800	16,900	18,200	29,200	31,000	32,000	28,900	37,000	33,800	35,500
24	24,800	26,600	16,800	17,000	18,200	29,200	30,500	31,900	28,600	37,000	33,700	35,600
25	24,800	23,900	16,800	17,000	18,200	29,100	30,700	31,900	29,600	37,200	33,800	35,600
26	24,800	21,200	16,900	17,000	18,200	29,800	30,900	31,400	30,600	37,200	34,000	35,700
27	25,000	18,200	17,200	16,900	18,200	29,400	30,600	31,500	29,800	37,300	33,900	35,800
28	25,000	17,800	17,000	17,000	18,100	29,600	29,800	31,300	31,000	37,000	33,700	35,400
29	27,600	17,800	16,800	18,200	------	29,000	29,800	30,800	32,100	37,000	34,700	35,500
30	30,500	17,700	16,800	18,100	------	29,400	29,500	31,200	32,200	37,200	34,600	35,300
31	31,000	------	16,900	18,200	------	29,600	------	31,000	------	37,400	34,600	------
TOTAL	831,300	851,200	533,300	530,100	503,700	700,300	901,600	933,000	907,800	1,107.5M	1,095.4M	1,052.7M
MEAN	26,820	28,370	17,200	17,100	17,990	22,590	30,050	30,100	30,260	35,730	35,340	35,090
MAX	31,100	31,000	17,700	18,200	18,200	29,800	31,000	32,000	32,200	37,400	37,200	36,100
MIN	22,700	17,700	16,800	16,800	17,800	17,900	29,400	25,300	28,600	32,300	33,700	34,500
AC-FT	1,649M	1,688M	1,058M	1,051M	999,100	1,389M	1,788M	1,851M	1,801M	2,197M	2,173M	2,088M

CAL YR 1973 TOTAL 9,369,400 MEAN 25,670 MAX 33,800 MIN 16,800 AC-FT 18,580,000
WTR YR 1974 TOTAL 9,947,900 MEAN 27,250 MAX 37,400 MIN 16,800 AC-FT 19,730,000

M Expressed in thousands

06486000 Missouri River at Sioux City, Iowa

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, Nebr., on right bank on upstream side of bridge on U.S. Highway 77 at South Sioux City, Nebr., 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.

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.

AVERAGE DISCHARGE.--77 years, 31,860 ft³/s (902.3 m³/s), 23,080,000 acre-ft/yr (28.5 km³/yr).

EXTREMES.--Current year: Maximum discharge, 41,100 ft³/s (1,160 m³/s) June 23, gage height, 21.49 ft (6.550 m); maximum gage height, 21.75 ft (6.629 m) Aug. 1; minimum daily discharge, 13,000 ft³/s (368 m³/s) Jan 10, 11; minimum gage height not determined, occurred during period of no gage-height record Jan. 9, 10.
Period of record: Maximum discharge, 441,000 ft³/s (12,500 m³/s) Apr. 14, 1952, gage height, 24.28 ft (7.401 m); minimum, 2,500 ft³/s (70.8 m³/s) Dec. 29, 1941; minimum gage height, -6.60 ft (-2.012 m) Dec. 14, 1968, result of freezeup.

REMARKS.--Records good except those for winter period, which are poor. Flow partly regulated by upstream main-stem reservoirs. Records of chemical analyses, water temperatures, and suspended-sediment discharges for the water year 1974 are published in Part 2 of WRD Iowa 1974.

REVISIONS (WATER YEARS).--WSP 716: 1929-30. WSP 876: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32,500	32,500	18,900	17,300	18,400	19,700	30,700	30,100	31,600	33,100	38,800	33,700
2	32,500	31,600	18,900	16,500	18,900	20,200	30,100	30,100	34,000	33,400	37,300	34,300
3	32,200	31,000	18,900	16,200	19,800	21,000	31,000	30,700	31,600	33,100	37,000	33,700
4	31,600	31,300	18,700	16,000	17,600	21,400	32,200	29,800	29,000	33,100	37,000	33,700
5	31,300	31,000	18,500	16,000	17,600	20,800	30,400	28,400	31,000	34,300	37,000	34,000
6	31,300	31,000	17,600	16,000	20,400	20,600	30,700	29,500	31,300	34,000	37,000	34,000
7	31,300	31,000	17,800	16,000	19,300	20,800	31,600	31,600	30,700	34,300	37,300	34,000
8	31,000	31,000	19,200	16,000	19,800	21,000	31,900	29,500	30,700	34,600	37,600	34,300
9	31,600	31,000	18,900	14,500	20,000	20,800	31,900	29,500	32,200	34,600	38,800	34,600
10	34,600	31,000	17,900	13,000	20,000	20,000	32,500	30,700	32,800	34,900	38,500	34,600
11	32,200	31,300	18,100	13,000	20,600	19,700	31,600	30,700	30,700	35,500	38,200	35,200
12	26,600	31,300	19,800	13,500	21,000	19,800	31,600	27,800	29,800	34,900	38,500	35,700
13	27,000	31,300	19,200	13,500	21,400	20,400	30,700	29,500	30,400	34,600	38,200	36,100
14	24,800	31,600	18,100	14,000	20,000	18,100	30,700	30,700	30,400	34,300	37,600	34,000
15	24,400	31,600	17,600	17,000	19,200	18,900	30,100	30,100	30,700	34,300	37,000	34,300
16	24,600	31,300	18,100	21,800	19,500	18,700	30,400	31,000	32,200	35,200	35,500	34,300
17	24,600	30,700	17,800	22,000	20,000	18,500	31,000	31,000	34,000	37,600	34,000	34,900
18	24,800	30,400	18,900	21,800	21,400	18,900	31,300	32,500	31,600	37,300	33,400	34,600
19	24,800	30,400	19,700	20,400	19,300	20,800	31,300	32,200	33,100	37,000	33,400	34,900
20	24,800	31,600	18,100	19,000	18,900	25,100	31,000	28,700	32,500	37,000	34,000	34,600
21	24,800	31,600	18,100	19,500	19,000	27,600	30,700	24,600	31,900	37,000	33,700	34,300
22	24,600	30,700	18,900	19,300	19,000	31,300	31,600	27,000	34,300	36,400	33,700	35,200
23	24,600	30,700	20,200	19,300	19,000	32,800	29,500	30,100	40,000	36,400	33,100	36,400
24	25,100	31,000	18,700	19,500	18,700	30,700	30,100	32,800	36,100	37,000	33,400	36,100
25	25,800	29,000	18,700	20,000	19,300	31,300	30,400	32,800	30,700	37,300	33,100	35,800
26	26,300	26,000	18,700	20,600	19,300	31,000	30,700	34,300	32,500	37,000	32,800	35,800
27	25,800	22,800	18,500	20,800	19,000	31,000	31,300	32,500	32,800	36,700	32,800	35,800
28	25,800	19,800	18,200	20,200	19,800	31,300	31,600	32,500	31,300	37,000	32,800	36,100
29	25,600	19,300	17,800	20,400	------	30,700	28,400	32,200	33,100	37,000	32,500	35,500
30	27,600	19,000	17,300	21,200	------	30,400	31,000	30,100	35,200	36,700	33,400	35,200
31	31,600	------	17,000	22,000	------	30,100	------	31,600	------	37,000	33,700	------
TOTAL	866,100	883,800	572,800	556,300	546,200	743,400	928,000	944,600	968,200	1,102.6M	1,101.1M	1,046.7M
MEAN	27,940	29,460	18,480	17,950	19,510	23,980	30,930	30,470	32,270	35,570	35,520	34,890
MAX	34,600	32,500	20,200	22,000	21,400	32,800	32,500	34,300	40,000	37,600	38,800	36,700
MIN	24,400	19,000	17,000	13,000	17,600	18,100	28,400	24,600	29,000	33,100	32,500	33,700
AC-FT	1,718M	1,753M	1,136M	1,103M	1,083M	1,475M	1,841M	1,874M	1,920M	2,187M	2,184M	2,076M

CAL YR 1973 TOTAL 10,331,700 MEAN 28,310 MAX 40,900 MIN 17,000 AC-FT 20,490,000
WTR YR 1974 TOTAL 10,259,800 MEAN 28,110 MAX 40,000 MIN 13,000 AC-FT 20,350,000

M Expressed in thousands.

06601000 Omaha Creek at Homer, Nebr.

LOCATION.--Lat 42°19'29", long 96°29'43", in SW1/4SE1/4 sec.11, T.27 N., R.8 E., Dakota County, 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.

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.

AVERAGE DISCHARGE.--29 years, 36.1 ft³/s (1.022 m³/s), 26,150 acre-ft/yr (32.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,900 ft³/s (110 m³/s) May 29, gage height, 15.34 ft (4.676 m), by slope-area measurement; minimum daily, 6.0 ft³/s (0.17 m³/s) Sept. 28.
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.
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.

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

REVISIONS.--WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	16	17	18	25	22	19	16	32	16	14	7.5
2	17	15	18	16	23	27	18	16	31	16	14	8.0
3	15	16	19	14	20	36	36	15	29	15	9.7	8.4
4	15	16	17	13	19	26	43	15	25	16	8.9	7.8
5	15	16	10	14	21	22	38	15	24	15	8.2	7.3
6	16	16	15	14	20	21	30	15	125	14	8.2	7.3
7	18	17	14	14	19	21	27	16	50	14	8.2	7.2
8	16	17	16	14	18	20	24	25	30	13	8.4	8.7
9	32	14	18	14	18	21	22	19	122	13	14	8.5
10	158	14	14	15	18	20	21	18	240	13	20	7.0
11	56	16	16	14	21	27	23	40	45	14	12	6.7
12	32	16	18	13	25	24	24	21	35	14	8.9	11
13	21	15	18	14	28	21	22	22	34	12	8.7	13
14	19	17	15	15	22	20	24	21	31	11	9.2	9.5
15	18	38	16	17	20	20	23	17	29	11	9.2	8.0
16	16	19	18	25	20	18	22	17	26	9.8	9.3	7.2
17	17	16	18	35	20	18	21	17	26	8.5	10	7.6
18	17	15	20	80	26	19	19	33	26	8.5	12	7.4
19	16	15	20	45	24	18	18	30	26	10	10	7.0
20	16	28	19	19	23	18	18	21	24	8.2	8.2	6.9
21	16	38	20	19	23	15	18	61	23	8.4	12	7.0
22	15	21	20	18	22	15	19	43	32	8.3	13	6.9
23	16	19	20	18	20	12	17	19	26	8.0	8.6	7.1
24	16	29	20	18	21	13	18	17	22	8.2	8.0	7.3
25	15	22	19	19	21	14	17	17	22	8.5	7.7	6.7
26	15	19	18	19	22	20	18	148	20	8.9	7.4	6.7
27	15	19	18	24	22	19	23	24	20	8.8	8.0	6.5
28	16	17	19	19	22	19	23	20	18	8.4	8.5	6.0
29	15	16	19	19	------	19	19	1,120	18	8.0	7.8	6.8
30	16	18	19	27	------	18	17	60	17	7.4	7.4	6.3
31	16	------	19	50	------	17	------	74	------	8.1	7.4	------
TOTAL	719	570	547	673	603	620	681	2,012	1,228	343.0	306.9	229.3
MEAN	23.2	19.0	17.6	21.7	21.5	20.0	22.7	64.9	40.9	11.1	9.90	7.64
MAX	158	38	20	80	28	36	43	1,120	240	16	20	13
MIN	15	14	10	13	18	12	17	15	17	7.4	7.4	6.0
AC-FT	1,430	1,130	1,080	1,330	1,200	1,230	1,350	3,990	2,440	680	609	455

CAL YR 1973 TOTAL 16,065.0 MEAN 44.0 MAX 1,090 MIN 10 AC-FT 31,860
WTR YR 1974 TOTAL 8,532.2 MEAN 23.4 MAX 1,120 MIN 6.0 AC-FT 16,920

PEAK DISCHARGE (BASE, 1,000 FT³/S).--May 29 (0830) 3,900 ft³/s (15.34 ft).

06608000 Tekamah Creek at Tekamah, Nebr.

LOCATION.--Lat 41°46'30", long 96°13'10", in SE1/4 sec.19, T.21 N., R.11 E., Burt County, 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.

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.

AVERAGE DISCHARGE.--25 years, 6.53 ft³/s (0.185 m³/s), 4,730 acre-ft/yr (5.83 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,910 ft³/s (139 m³/s) May 18, gage height, 14.80 ft (4.511 m), from highwater mark; minimum daily, 2.1 ft³/s (0.059 m³/s) July 18,19,22,23.
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.

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

REVISIONS.--WSP 1630: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	4.5	4.0	3.0	5.2	7.2	4.4	3.6	5.8	4.2	3.0	3.1
2	3.8	4.5	4.1	3.0	4.8	7.3	4.4	3.6	4.1	3.9	2.7	3.3
3	3.6	4.3	4.1	3.2	4.6	7.0	5.4	3.6	3.5	4.2	2.4	3.2
4	3.5	4.3	4.0	3.2	4.8	6.5	5.1	3.7	3.0	4.1	2.4	3.1
5	3.4	4.2	4.0	3.2	5.0	6.0	4.5	3.6	2.7	4.1	2.4	3.1
6	3.7	4.4	3.8	3.0	4.8	5.9	4.5	3.5	3.0	4.0	2.6	3.0
7	3.7	4.5	3.6	3.2	4.8	5.7	4.4	3.5	77	4.0	2.6	3.1
8	3.6	4.3	3.8	3.2	4.6	5.7	4.2	3.5	25	3.8	8.5	3.6
9	3.7	4.3	4.4	3.2	4.8	5.5	4.1	3.5	50	3.6	12	2.7
10	45	4.9	4.2	3.2	5.2	5.3	4.1	4.7	20	4.0	8.9	2.7
11	79	4.4	4.6	3.1	5.8	6.1	4.7	20	9.6	3.7	5.2	2.6
12	8.8	4.5	4.4	3.2	5.8	5.9	4.6	4.1	8.0	3.4	3.0	5.0
13	6.1	4.3	4.4	3.3	6.0	5.5	4.1	3.6	8.1	3.0	9.2	3.1
14	5.4	4.3	4.6	3.4	6.4	5.5	4.3	3.4	7.7	2.9	4.9	2.8
15	5.1	4.6	4.8	3.6	7.0	5.4	4.0	3.1	6.9	2.7	7.3	2.6
16	5.0	4.2	5.2	4.0	7.2	5.1	4.1	69	6.5	2.8	34	2.4
17	5.0	4.1	5.4	9.0	7.4	5.1	3.9	26	6.5	2.5	6.4	2.2
18	4.8	4.0	5.4	6.0	7.4	5.2	3.8	837	6.5	2.1	5.0	2.3
19	4.8	4.1	5.6	5.0	7.2	4.9	3.8	137	6.2	2.1	4.2	2.4
20	4.8	7.7	5.8	4.8	7.2	4.8	4.0	47	5.7	2.2	3.8	2.6
21	4.8	5.6	5.8	5.2	7.0	4.6	5.0	27	5.4	2.2	6.0	2.6
22	4.7	4.4	6.0	6.0	6.8	5.0	3.6	13	5.1	2.1	4.8	2.5
23	4.6	4.4	5.6	5.4	6.8	5.2	3.6	10	5.0	2.1	4.2	2.6
24	4.6	5.5	5.0	5.2	6.6	5.4	3.7	6.1	4.8	2.2	3.8	2.6
25	4.5	4.4	4.6	5.4	6.4	5.0	3.6	144	4.7	2.2	3.6	2.6
26	4.5	4.5	4.0	5.2	6.6	4.8	3.6	43	4.6	2.2	3.5	2.6
27	4.4	4.2	3.8	5.0	6.8	4.7	3.5	12	4.6	2.2	8.0	2.4
28	4.4	4.1	3.6	4.8	7.0	4.6	3.8	8.4	4.4	2.5	5.0	2.3
29	4.4	4.1	3.4	4.8	------	4.5	3.5	5.5	4.2	2.2	3.1	2.3
30	4.5	4.1	3.2	5.4	------	4.4	3.4	13	4.0	2.2	3.0	2.3
31	4.6	------	3.0	6.2	------	4.5	------	17	------	2.5	3.0	------
TOTAL	257.1	135.7	138.2	135.4	170.0	168.3	123.7	1,486.0	312.6	91.9	178.5	83.7
MEAN	8.29	4.52	4.46	4.37	6.07	5.43	4.12	47.9	10.4	2.96	5.76	2.79
MAX	79	7.7	6.0	9.0	7.4	7.3	5.4	837	77	4.2	34	5.0
MIN	3.4	4.0	3.0	3.0	4.6	4.4	3.4	3.1	2.7	2.1	2.4	2.2
AC-FT	510	269	274	269	337	334	245	2,950	620	182	354	166

CAL YR 1973 TOTAL 4,481.5 MEAN 12.3 MAX 221 MIN 2.4 AC-FT 8,890
WTR YR 1974 TOTAL 3,281.1 MEAN 8.99 MAX 837 MIN 2.1 AC-FT 6,510

PEAK DISCHARGE (BASE, 400 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-16	-	-	a400	5-25	2030	8.40	1,060
5-18	1930	14.80	4,910	6-07	1715	6.10	425

a About

06610000 Missouri River at Omaha, Nebr.

LOCATION.--Lat 41°15'32", long 95°55'20", in SE1/4NW1/4 sec.23, T.15 N., R.13 E., Douglas County, 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.

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.

AVERAGE DISCHARGE.--46 years, 28,880 ft³/s (817.9 m³/s), 20,920,000 acre-ft/yr (25.8 km³/yr).

EXTREMES.--Current year: Maximum discharge, 52,400 ft³/s (1,480 m³/s) May 19, gage height, 10.86 ft (3.310 m); minimum daily, 13,300 ft³/s (377 m³/s) Jan. 12; minimum gage height, 3.20 ft (0.975 m) Jan. 11, 12.

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.

REMARKS.--Records good. Flow partly regulated by upstream main-stem reservoirs. Records of chemical analyses, water temperatures, and suspended-sediment discharges for the water year 1974 are published in Part 2 of WRD Iowa 1974.

REVISIONS.--WSP 761: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34,400	31,000	23,400	17,000	24,000	23,200	31,100	33,400	35,700	35,000	37,100	35,200
2	33,400	31,800	23,100	17,500	22,600	22,600	32,200	32,800	35,100	35,400	37,700	34,900
3	33,200	33,000	22,900	17,400	20,000	22,600	33,200	31,900	35,300	35,300	37,500	34,200
4	33,800	33,400	22,700	17,200	19,800	23,200	33,100	31,800	34,400	35,700	37,200	34,100
5	33,700	33,200	22,100	17,000	19,700	23,300	33,700	31,800	33,200	35,800	37,000	34,000
6	33,300	32,500	20,600	16,900	17,600	23,100	33,300	30,900	35,400	35,300	36,700	34,300
7	33,200	32,300	19,200	17,100	18,100	22,800	33,200	32,300	37,000	35,000	36,500	34,500
8	33,100	32,100	19,200	17,500	20,000	22,600	33,600	33,900	38,100	34,500	37,000	34,600
9	32,500	32,000	20,700	16,900	19,900	22,800	33,600	34,000	37,300	34,800	38,000	34,500
10	33,500	31,400	21,000	16,300	20,500	22,900	33,600	32,600	36,700	35,100	39,400	35,000
11	39,400	31,200	20,600	13,500	20,700	22,700	35,200	33,800	36,400	36,000	39,300	35,900
12	38,100	31,800	20,300	13,300	20,800	22,500	35,400	34,100	35,400	36,300	37,800	36,900
13	33,100	31,600	21,400	14,100	22,100	22,400	35,500	32,400	34,700	36,100	37,900	37,000
14	31,300	31,800	22,500	13,800	23,900	23,200	35,700	33,300	35,200	35,700	39,400	36,800
15	31,000	32,000	21,100	14,800	23,400	22,700	35,000	34,800	35,300	35,300	38,500	35,900
16	29,200	32,100	20,000	17,700	21,400	22,000	33,800	36,100	35,000	35,300	38,600	35,500
17	29,400	31,800	20,200	22,300	20,900	22,500	33,200	35,100	34,800	35,300	37,400	35,100
18	29,000	32,000	19,900	24,900	23,900	22,400	34,100	38,700	35,100	36,500	36,100	35,200
19	27,200	31,600	19,800	24,500	26,000	22,300	33,400	47,900	33,100	37,300	35,500	35,500
20	27,400	32,700	20,800	22,500	26,100	22,900	33,700	37,800	33,500	36,700	35,100	35,700
21	27,200	33,900	20,600	20,600	24,500	27,200	33,700	34,700	34,600	36,300	35,100	35,800
22	27,200	34,500	19,500	20,000	23,400	31,500	32,600	35,000	34,500	36,600	35,000	35,900
23	27,200	34,100	19,500	20,200	22,600	33,900	33,800	33,000	35,800	36,500	34,300	35,900
24	27,400	33,900	21,400	20,200	22,200	32,600	33,300	33,700	40,800	36,100	34,300	35,300
25	27,600	33,600	21,700	20,300	21,600	31,900	33,000	35,600	42,000	35,900	34,400	36,500
26	27,700	32,000	20,500	20,400	21,800	31,500	32,500	37,300	36,600	36,400	34,400	36,200
27	27,900	29,200	20,100	20,900	23,100	31,900	32,400	38,400	35,500	36,200	34,200	36,200
28	28,100	26,400	19,800	20,800	23,400	32,500	33,200	36,600	35,100	36,300	34,500	36,500
29	27,800	24,000	19,400	20,500	------	32,500	34,200	37,600	33,900	36,400	35,000	36,500
30	28,200	23,400	18,600	20,500	------	31,300	32,900	41,500	33,600	36,800	34,900	36,600
31	29,000	------	17,500	22,300	------	30,600	------	38,100	------	36,800	34,900	------
TOTAL	954,500	946,300	640,100	578,900	614,000	802,100	1,007.2M	1,090.9M	1,069.1M	1,112.7M	1,130.7M	1,057.2M
MEAN	30,790	31,540	20,650	18,670	21,930	25,870	33,570	35,190	35,640	35,890	36,470	35,570
MAX	39,400	34,500	23,400	24,900	26,100	33,900	35,700	47,900	42,000	37,300	39,400	37,000
MIN	27,200	23,400	17,500	13,300	17,600	22,000	31,100	30,900	33,100	34,500	34,200	34,000
AC-FT	1,893M	1,877M	1,270M	1,148M	1,218M	1,591M	1,998M	2,164M	2,121M	2,207M	2,243M	2,117M

CAL YR 1973 TOTAL 11,436,600 MEAN 31,330 MAX 52,400 MIN 17,500 AC-FT 22,680,000
WTR YR 1974 TOTAL 11,013,700 MEAN 30,170 MAX 47,900 MIN 13,300 AC-FT 21,850,000

M Expressed in thousands.

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, Nebr., on right bank 650 ft (198 m) upstream from bridge on Nebraska State Highway 86, 700 ft (213 m) downstream from Wyoming-Nebraska State line, and 0.5 mi (0.8 km) south of Henry, Nebr.

DRAINAGE AREA.--26,177 mi² (67,798 km²), of which 5,888 mi² (15,250 km²), including 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming, is probably noncontributing.

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

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.

EXTREMES.--Current year: Maximum discharge, 5,040 ft³/s (143 m³/s) Apr. 2, gage height, 5.17 ft (1.576 m); minimum daily, 276 ft³/s (7.82 m³/s) Jan. 4.
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.

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. Water quality records for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 1918: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,240	578	480	330	436	972	4,700	3,500	1,280	2,830	1,220	926
2	1,130	583	485	300	441	1,510	4,780	2,940	1,220	2,760	1,220	891
3	1,070	605	480	282	441	1,990	4,880	2,740	1,150	2,560	1,250	842
4	1,010	611	485	276	432	2,520	4,800	2,620	1,110	2,250	1,270	772
5	980	600	470	280	428	3,100	4,820	2,530	1,080	1,930	1,300	730
6	956	588	455	282	428	3,540	4,760	2,480	1,070	1,670	1,290	704
7	926	600	446	288	428	3,900	4,740	2,360	1,070	1,590	1,230	665
8	912	647	441	292	414	4,310	4,620	2,180	1,240	1,530	1,230	617
9	905	672	446	290	392	4,440	4,640	1,860	1,820	1,510	1,230	578
10	912	653	450	290	405	4,560	4,660	1,600	2,150	1,480	1,240	561
11	1,040	653	455	300	405	4,720	3,530	1,370	2,270	1,580	1,190	530
12	1,250	665	450	316	410	4,780	4,440	1,300	2,600	1,580	1,130	578
13	1,090	653	446	340	410	4,820	4,500	1,200	2,830	1,500	1,100	605
14	905	641	446	386	414	4,840	4,600	1,160	2,900	1,460	1,050	600
15	835	605	428	444	414	4,840	4,640	996	2,900	1,400	1,030	605
16	800	583	418	530	418	4,860	4,680	996	2,850	1,390	1,040	600
17	779	566	410	588	423	4,840	4,680	1,060	2,850	1,370	1,040	588
18	730	550	408	710	418	4,840	4,580	988	2,750	1,550	1,040	572
19	698	535	410	617	418	4,760	4,540	940	2,750	1,510	1,040	545
20	678	530	414	594	423	4,760	4,540	884	2,750	1,320	1,030	535
21	672	525	423	583	414	4,780	4,580	800	2,780	1,300	1,010	525
22	659	520	428	561	423	4,740	4,620	849	2,850	1,300	1,020	525
23	653	510	436	535	418	4,720	4,310	1,030	2,910	1,260	1,040	515
24	641	500	446	500	400	4,660	4,060	1,080	3,040	1,300	1,060	510
25	641	495	441	485	396	4,640	3,820	1,100	3,170	1,330	1,070	515
26	641	495	428	485	387	4,640	3,810	1,150	3,170	1,340	1,040	556
27	629	490	405	480	387	4,640	3,740	1,210	3,190	1,260	1,010	545
28	623	490	410	465	605	4,580	3,690	1,220	3,150	1,240	996	605
29	617	480	392	450	------	4,600	3,740	1,140	2,970	1,240	980	737
30	605	475	392	436	------	4,640	3,710	1,180	2,820	1,290	972	717
31	600	------	360	432	------	4,720	------	1,250	------	1,240	956	------
TOTAL	25,827	17,098	13,484	13,147	11,828	130,262	132,210	47,713	70,690	48,870	34,324	18,794
MEAN	833	570	435	424	422	4,202	4,407	1,539	2,356	1,576	1,107	626
MAX	1,250	672	485	710	605	4,860	4,880	3,500	3,190	2,830	1,300	926
MIN	600	475	360	276	387	972	3,530	800	1,070	1,240	956	510
AC-FT	51,230	33,910	26,750	26,080	23,460	258,400	262,200	94,640	140,200	96,930	68,080	37,280

CAL YR 1973 TOTAL 836,392 MEAN 2,291 MAX 8,500 MIN 200 AC-FT 1,659,000
WTR YR 1974 TOTAL 564,247 MEAN 1,546 MAX 4,880 MIN 276 AC-FT 1,119,000

06677500 Horse Creek near Lyman, Nebr.

LOCATION.--Lat 41°56'21", long 103°59'13", in SE1/4NE1/4 sec.25, T.23 N., R.58 W., Scotts Bluff County, 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.

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.

AVERAGE DISCHARGE.--43 years, 65.5 ft³/s (1.855 m³/s), 46,450 acre-ft/yr (57.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 550 ft³/s (15.6 m³/s) June 8, gage height, 5.12 ft (1.561 m); minimum daily, 15 ft³/s (0.42 m³/s) Jan. 8-12.
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.

REMARKS.--Records good 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.

REVISIONS (WATER YEARS).--WSP 926: 1940(M). WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	52	43	22	152	123	107	135	151	93	87	160
2	115	52	42	22	152	118	101	131	164	91	83	173
3	107	52	43	20	140	111	86	132	172	96	87	214
4	105	53	42	19	142	105	88	133	191	132	87	227
5	100	53	39	18	142	102	107	131	194	140	98	225
6	94	56	46	17	133	107	183	127	200	130	92	237
7	90	57	42	16	121	104	191	113	201	115	89	261
8	87	63	43	15	101	104	170	106	351	95	88	265
9	86	61	39	15	81	103	153	125	517	75	93	255
10	84	57	42	15	103	102	142	125	509	79	124	253
11	86	54	40	15	142	106	153	100	485	86	121	235
12	85	53	40	15	148	112	179	128	483	80	122	291
13	79	51	38	20	157	116	186	158	436	78	124	352
14	77	51	38	25	145	113	219	272	427	78	119	328
15	78	49	38	30	139	108	224	202	426	81	117	315
16	75	49	39	84	140	104	220	225	400	79	110	326
17	73	48	41	112	136	102	204	203	411	85	104	337
18	71	47	30	239	139	101	196	192	403	85	102	331
19	67	46	30	233	140	100	184	213	380	88	105	300
20	67	46	35	257	142	98	169	197	351	75	101	266
21	66	46	40	263	131	94	162	150	290	67	103	267
22	64	46	30	202	132	103	163	130	268	63	101	262
23	60	46	30	154	123	110	162	114	249	77	102	282
24	64	44	25	164	127	115	160	92	229	174	105	295
25	58	45	25	174	123	113	154	89	199	117	110	291
26	57	43	24	164	128	113	150	89	163	81	111	288
27	56	43	23	159	125	110	143	87	149	78	112	255
28	51	42	23	153	122	107	140	93	144	75	118	240
29	51	45	23	150	------	110	137	95	126	76	119	227
30	52	44	23	157	------	109	137	104	100	100	128	207
31	52	------	23	151	------	107	------	122	------	90	136	------
TOTAL	2,389	1,494	1,079	3,100	3,706	3,330	4,770	4,313	8,769	2,859	3,298	7,965
MEAN	77.1	49.8	34.8	100	132	107	159	139	292	92.2	106	266
MAX	132	63	46	263	157	123	224	272	517	174	136	352
MIN	51	42	23	15	81	94	86	87	100	63	83	160
AC-FT	4,740	2,960	2,140	6,150	7,350	6,610	9,460	8,550	17,390	5,670	6,540	15,800

CAL YR 1973 TOTAL 42,343 MEAN 116 MAX 494 MIN 12 AC-FT 83,990
WTR YR 1974 TOTAL 47,072 MEAN 129 MAX 517 MIN 15 AC-FT 93,370

06678000 Sheep Creek near Morrill, Nebr.

LOCATION.--Lat 41°57'50", long 103°56'20", in NW1/4SW1/4 sec.16, T.23 N., R.57 W., Scotts Bluff County, 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.

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.

AVERAGE DISCHARGE.--43 years, 54.5 ft³/s (1.543 m³/s), 39,490 acre-ft/yr (48.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 164 ft³/s (4.64 m³/s) Aug. 12, gage height, 2.97 ft (0.905 m); minimum daily, 3.7 ft³/s (0.10 m³/s) June 21.
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. 15, 23, 1956, Jan. 18, Mar. 12, 1957, result of diversion for construction upstream.

REMARKS.--Records good above 10 ft³/s (0.28 m³/s) and fair below. Natural flow of stream affected by ground-water withdrawals and diversions for irrigation and return flow from irrigated areas.

REVISIONS (WATER YEARS).--WRD Nebr. 1967: Drainage area. WSP 2118: 1936(M), 1946(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	111	95	85	94	86	81	70	14	7.8	7.2	9.1
2	132	109	95	85	92	87	83	70	13	7.8	6.6	9.5
3	130	112	95	86	91	87	84	71	13	7.5	6.6	9.5
4	130	116	95	86	90	86	80	72	13	7.2	6.6	10
5	129	116	93	87	91	86	81	71	14	7.2	6.6	11
6	128	116	93	87	90	86	82	71	11	7.2	6.6	11
7	128	116	94	89	91	86	81	72	11	7.2	6.9	11
8	127	122	95	90	90	86	79	72	11	7.2	6.9	10
9	129	121	93	90	90	86	79	72	11	7.2	6.6	11
10	129	118	95	90	92	86	79	75	72	6.9	12	12
11	129	115	95	90	93	88	81	72	100	6.9	14	12
12	127	114	96	91	92	86	81	68	102	6.9	16	22
13	126	112	95	91	91	86	79	68	104	6.9	12	18
14	123	112	94	92	91	85	77	70	104	6.9	9.1	14
15	123	109	93	92	91	84	77	70	103	6.9	8.4	14
16	123	108	93	96	90	84	76	67	104	6.9	8.1	12
17	122	106	92	98	90	84	76	67	104	6.9	8.4	11
18	122	106	94	100	90	84	76	65	100	6.6	8.4	9.1
19	121	107	93	100	90	84	76	64	98	7.2	8.1	9.8
20	121	104	90	98	90	83	77	65	36	6.9	7.5	11
21	121	104	90	98	88	81	77	27	3.7	6.9	7.2	11
22	121	102	89	96	87	81	76	4.7	4.4	6.6	7.5	88
23	121	102	88	98	88	81	75	4.4	6.3	6.3	7.8	117
24	119	101	87	98	88	81	76	4.4	6.3	6.6	7.8	119
25	118	100	86	97	87	81	76	6.6	6.3	8.5	7.8	121
26	118	100	86	95	87	81	76	11	6.3	7.2	7.2	123
27	117	98	84	95	86	82	73	11	6.6	7.2	7.2	123
28	116	96	86	94	87	82	70	11	6.3	7.2	8.1	123
29	115	95	86	94	------	82	70	11	6.3	7.2	8.1	123
30	112	95	86	94	------	82	70	11	6.9	7.5	8.8	121
31	112	------	85	94	------	82	------	13	------	7.2	8.8	------
TOTAL	3,824	3,243	2,831	2,876	2,517	2,606	2,324	1,507.1	1,197.4	220.6	258.9	1,306.0
MEAN	123	108	91.3	92.8	89.9	84.1	77.5	48.6	39.9	7.12	8.35	43.5
MAX	135	122	96	100	94	88	84	75	104	8.5	16	123
MIN	112	95	84	85	86	81	70	4.4	3.7	6.3	6.6	9.1
AC-FT	7,580	6,430	5,620	5,700	4,990	5,170	4,610	2,990	2,380	438	514	2,590

CAL YR 1973 TOTAL 24,199.5 MEAN 66.3 MAX 146 MIN 2.5 AC-FT 48,000
WTR YR 1974 TOTAL 24,711.0 MEAN 67.7 MAX 135 MIN 3.7 AC-FT 49,010

06679000 Dry Spottedtail Creek at Mitchell, Nebr.

LOCATION.--Lat 41°56'45", long 103°49'35", at southeast corner of sec.20, T.23 N., R.56 W., Scotts Bluff County, 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.

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.

AVERAGE DISCHARGE.--26 years, 33.8 ft³/s (0.957 m³/s), 24,490 acre-ft/yr (30.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 139 ft³/s (3.94 m³/s) Sept. 26, gage height, 2.38 ft (0.725 m); maximum gage height, 2.41 ft (0.735 m) July 13; minimum daily discharge, 17 ft³/s (0.48 m³/s) Nov. 16-18, Dec. 30, Jan. 7-12, Mar. 22.
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.

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

REVISIONS.--WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	28	24	18	25	23	40	51	66	56	57	55
2	53	32	24	18	25	23	40	58	57	60	57	78
3	53	36	23	18	24	23	42	55	53	58	57	77
4	54	34	23	18	24	23	42	47	47	59	63	78
5	52	35	22	18	25	25	42	46	53	61	60	76
6	52	34	21	18	25	25	43	43	62	56	61	77
7	53	32	23	17	25	28	43	44	59	47	61	82
8	53	34	23	17	26	28	42	32	64	44	64	84
9	53	37	20	17	28	27	42	29	67	45	66	84
10	52	33	20	17	31	29	42	33	58	49	74	82
11	53	32	20	17	29	32	44	36	56	51	76	86
12	53	31	18	17	29	32	43	44	58	52	85	100
13	42	27	20	18	28	29	44	43	54	68	80	109
14	37	20	20	19	27	26	45	47	48	63	80	114
15	39	18	20	20	27	24	46	44	45	65	78	114
16	39	17	20	21	26	23	45	39	37	66	77	125
17	38	17	21	22	26	22	47	52	37	68	76	114
18	39	17	21	27	26	20	46	61	41	73	74	102
19	38	24	19	27	25	20	45	56	45	78	76	100
20	38	27	20	26	24	21	45	52	47	74	74	103
21	38	28	20	26	23	21	44	50	51	72	73	106
22	38	28	20	24	23	17	45	56	50	73	73	109
23	38	28	20	23	23	18	43	61	46	70	73	105
24	35	28	18	23	22	19	42	60	44	72	76	106
25	35	28	18	23	23	28	41	56	44	64	77	115
26	36	28	18	23	22	38	39	57	47	61	80	117
27	36	27	18	21	22	39	37	56	47	61	82	92
28	37	25	18	20	23	40	38	57	51	62	72	93
29	36	24	18	20	------	40	44	57	55	60	66	90
30	35	24	17	20	------	39	52	58	54	58	66	81
31	31	------	18	24	------	41	------	55	------	54	62	------
TOTAL	1,349	833	625	637	706	843	1,293	1,535	1,543	1,900	2,196	2,854
MEAN	43.5	27.8	20.2	20.5	25.2	27.2	43.1	49.5	51.4	61.3	70.8	95.1
MAX	63	37	24	27	31	41	52	61	67	78	85	125
MIN	31	17	17	17	22	17	37	29	37	44	57	55
AC-FT	2,680	1,650	1,240	1,260	1,400	1,670	2,560	3,040	3,060	3,770	4,360	5,660

CAL YR 1973 TOTAL 18,118 MEAN 49.6 MAX 212 MIN 17 AC-FT 35,940
WTR YR 1974 TOTAL 16,314 MEAN 44.7 MAX 125 MIN 17 AC-FT 32,360

06679500 North Platte River at Mitchell, Nebr.

LOCATION.--Lat 41°55'38", long 103°48'48", in NE1/4NE1/4 sec.33, T.33 N., R.56 W., Scotts Bluff County, 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.--28,300 mi² (73,300 km²), approximately, of which about 5,960 mi² (15,400 km²) is noncontributing.

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.

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.

EXTREMES.--Current year: Maximum discharge, 5,110 ft³/s (145 m³/s) Apr. 7, gage height, 7.13 ft (2.173 m); minimum daily, 266 ft³/s (7.53 m³/s) July 23.
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.

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.

REVISIONS.--WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,750	973	765	555	817	1,050	4,840	3,700	528	1,700	302	380
2	1,660	967	770	550	828	1,390	4,820	3,010	621	1,650	298	431
3	1,520	979	760	540	817	1,840	5,010	2,740	598	1,550	302	459
4	1,440	985	756	535	817	2,370	4,860	2,610	594	1,240	322	467
5	1,410	979	746	540	812	2,830	4,840	2,530	571	1,030	337	451
6	1,360	973	731	545	780	3,200	4,930	2,300	571	791	351	455
7	1,300	973	726	550	775	3,600	4,970	1,930	566	650	347	471
8	1,290	1,030	726	555	746	3,910	4,820	1,780	639	557	344	487
9	1,270	1,070	717	560	702	4,050	4,760	1,650	1,230	507	340	479
10	1,270	1,050	717	570	712	4,180	4,760	1,530	1,640	467	395	471
11	1,330	1,030	717	575	756	4,380	4,030	1,410	1,850	495	423	471
12	1,480	1,030	717	595	775	4,470	4,040	1,250	2,110	511	419	532
13	1,530	1,010	707	610	791	4,540	4,560	1,050	2,440	479	395	702
14	1,340	996	707	661	780	4,540	4,650	850	2,520	451	383	731
15	1,270	967	693	688	780	4,620	4,690	736	2,570	419	365	741
16	1,230	944	679	736	775	4,630	4,690	639	2,530	399	347	760
17	1,200	933	679	893	775	4,650	4,690	707	2,590	391	344	775
18	1,170	910	693	1,020	780	4,710	4,620	571	2,540	379	330	770
19	1,150	898	674	1,070	780	4,730	4,510	536	2,500	495	330	756
20	1,130	882	665	1,050	791	4,690	4,540	532	2,400	379	323	725
21	1,120	876	656	1,070	770	4,780	4,560	510	2,310	305	312	731
22	1,110	871	656	1,000	775	4,780	4,560	480	2,310	280	305	770
23	1,100	854	670	910	770	4,760	4,380	450	2,360	266	302	828
24	1,080	844	670	876	741	4,760	4,100	440	2,390	336	305	865
25	1,070	833	661	876	741	4,780	3,860	400	2,410	383	305	933
26	1,050	817	665	876	746	4,760	3,770	350	2,390	383	309	1,030
27	1,030	812	648	860	736	4,760	3,770	309	2,360	336	302	1,080
28	1,020	796	643	844	796	4,760	3,760	312	2,220	302	305	1,100
29	1,010	791	634	833	------	4,690	3,770	326	2,010	284	319	1,170
30	996	770	625	822	------	4,760	3,750	322	1,690	305	333	1,180
31	985	------	616	812	------	4,840	------	415	------	316	344	------
TOTAL	38,671	27,843	21,489	23,177	21,664	126,810	133,910	36,375	54,058	18,036	10,438	21,202
MEAN	1,247	928	693	748	774	4,091	4,464	1,173	1,802	582	337	707
MAX	1,750	1,070	770	1,070	828	4,840	5,010	3,700	2,590	1,700	423	1,180
MIN	985	770	616	535	702	1,050	3,750	309	528	266	298	380
AC-FT	76,700	55,230	42,620	45,970	42,970	251,500	265,600	72,150	107,200	35,770	20,700	42,050

CAL YR 1973 TOTAL 823,686 MEAN 2,257 MAX 8,640 MIN 519 AC-FT 1,634,000
WTR YR 1974 TOTAL 533,673 MEAN 1,462 MAX 5,010 MIN 266 AC-FT 1,059,000

06680000 Tub Springs near Scottsbluff, Nebr.

LOCATION.--Lat 41°54'55", long 103°42'55", in SW1/4SW1/4 sec.33, T.23 N., R.55 W., Scotts Bluff County, 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.

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.

AVERAGE DISCHARGE.--26 years, 36.7 ft³/s (1.039 m³/s), 26,590 acre-ft/yr (32.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 96 ft³/s (2.72 m³/s) Sept. 25, gage height, 1.57 ft (0.479 m); minimum daily, 15 ft³/s (0.42 m³/s) July 10.
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.

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

REVISIONS (WATER YEARS).--WSP 1310: 1949(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	54	45	40	38	35	28	26	44	27	22	49
2	66	53	45	39	38	35	28	26	40	26	23	41
3	65	53	44	39	38	34	29	51	31	26	23	36
4	65	56	44	40	38	34	29	68	29	27	24	36
5	67	57	43	40	38	34	29	66	36	27	27	35
6	68	56	43	40	37	34	28	65	39	27	24	35
7	69	54	42	42	36	34	28	60	36	27	21	33
8	70	58	42	42	36	34	28	45	45	26	21	33
9	71	56	42	42	37	35	28	39	51	16	25	35
10	71	55	42	42	39	35	28	45	60	15	44	35
11	76	54	42	40	38	37	30	48	65	18	43	36
12	76	53	42	38	38	36	29	42	65	16	38	48
13	75	51	42	41	38	36	29	35	62	16	34	55
14	75	51	41	43	37	35	29	34	57	17	28	53
15	75	51	41	43	37	34	28	35	55	18	24	47
16	74	51	41	48	36	33	29	36	56	22	25	44
17	72	50	42	42	36	31	28	42	57	22	32	42
18	71	49	42	41	37	30	26	40	55	22	35	39
19	71	49	41	41	37	30	26	39	54	22	34	37
20	70	48	42	40	37	29	25	42	54	19	34	42
21	69	48	42	40	37	29	26	39	35	21	34	43
22	68	48	42	39	37	29	26	25	25	23	37	66
23	67	48	41	40	37	29	26	24	26	22	36	78
24	64	48	42	39	36	29	27	24	28	23	35	78
25	61	47	42	40	37	29	28	25	27	27	35	80
26	61	47	41	39	37	29	28	25	28	28	34	80
27	58	46	41	39	36	27	27	30	28	27	35	80
28	58	46	41	39	36	27	26	33	27	25	38	80
29	57	46	40	39	------	26	27	35	26	24	41	84
30	56	45	41	38	------	26	27	33	27	23	40	88
31	55	------	40	38	------	27	------	35	------	23	44	------
TOTAL	2,087	1,528	1,301	1,253	1,039	982	830	1,212	1,268	702	990	1,568
MEAN	67.3	50.9	42.0	40.4	37.1	31.7	27.7	39.1	42.3	22.6	31.9	52.3
MAX	76	58	45	48	39	37	30	68	65	28	44	88
MIN	55	45	40	38	36	26	25	24	25	15	21	33
AC-FT	4,140	3,030	2,580	2,490	2,060	1,950	1,650	2,400	2,520	1,390	1,960	3,110

CAL YR 1973 TOTAL 15,281 MEAN 41.9 MAX 103 MIN 24 AC-FT 30,310
WTR YR 1974 TOTAL 14,760 MEAN 40.4 MAX 88 MIN 15 AC-FT 29,280

06681000 Winters Creek near Scottsbluff, Nebr.

LOCATION.--Lat 41°51'08", long 103°37'35", in NW1/4SE1/4 sec.30, T.22 N., R.54 W., Scotts Bluff County, 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.

AVERAGE DISCHARGE.--43 years, 53.4 ft^3/s (1.512 m^3/s), 38,690 acre-ft/yr (47.7 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 218 ft^3/s (6.17 m^3/s) Aug. 9, gage height, 3.77 ft (1.149 m); minimum daily, 11 ft^3/s (0.31 m^3/s) June 30.
Period of record: Maximum discharge, 1,090 ft^3/s (30.9 m^3/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 ft^3/s (0.025 m^3/s) July 5, 1961.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	59	51	45	44	49	42	40	46	12	32	94
2	82	58	51	45	42	48	42	38	47	15	31	96
3	81	59	51	45	42	48	40	39	36	16	30	96
4	87	59	50	45	41	48	43	40	40	13	32	95
5	87	59	50	45	42	49	42	44	49	12	34	87
6	86	59	49	45	41	49	43	45	113	13	34	85
7	85	58	49	45	40	49	43	44	108	13	32	84
8	83	63	49	45	43	48	44	39	159	13	32	81
9	82	63	48	44	46	47	45	50	187	14	70	79
10	79	61	48	44	47	47	45	43	133	15	136	78
11	81	60	47	43	49	49	46	30	113	22	141	79
12	81	59	47	45	49	47	46	27	123	26	126	99
13	79	58	47	44	51	47	46	29	122	38	106	99
14	78	57	47	45	50	48	48	28	121	24	80	83
15	76	56	46	45	50	48	48	31	110	28	70	85
16	75	57	47	49	49	48	48	29	102	32	65	84
17	69	56	47	48	50	47	48	29	108	28	60	75
18	69	56	49	48	50	47	50	32	106	23	54	70
19	68	55	47	48	50	46	52	30	78	28	53	73
20	68	55	48	47	49	43	52	28	56	31	53	73
21	67	55	48	48	49	44	52	26	48	29	51	72
22	67	55	48	47	48	43	51	27	39	31	51	68
23	67	55	47	47	48	43	50	30	37	35	54	68
24	64	54	46	47	49	44	49	30	42	34	57	67
25	64	54	46	46	49	44	46	27	40	39	68	67
26	63	53	46	46	49	43	46	27	37	37	71	69
27	63	53	46	45	48	42	43	26	33	35	67	85
28	61	52	46	45	50	42	43	23	14	37	67	78
29	61	52	46	44	------	42	43	51	12	46	66	98
30	60	52	46	44	------	42	41	38	11	45	76	111
31	60	------	46	43	------	43	------	36	------	33	87	------
TOTAL	2,277	1,702	1,479	1,412	1,315	1,424	1,377	1,056	2,270	817	1,986	2,478
MEAN	73.5	56.7	47.7	45.5	47.0	45.9	45.9	34.1	75.7	26.4	64.1	82.6
MAX	87	63	51	49	51	49	52	51	187	46	141	111
MIN	60	52	46	43	40	42	40	23	11	12	30	67
AC-FT	4,520	3,380	2,930	2,800	2,610	2,820	2,730	2,090	4,500	1,620	3,940	4,920

CAL YR 1973 TOTAL 19,307 MEAN 52.9 MAX 209 MIN 21 AC-FT 38,300
WTR YR 1974 TOTAL 19,593 MEAN 53.7 MAX 187 MIN 11 AC-FT 38,860

06681500 Gering drain near Gering, Nebr.

LOCATION.--Lat 41°49'20", long 103°37'02", in SE1/4NE1/4 sec.6, T.21 N., R.54 W., Scotts Bluff County, 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.

GAGE.--Water-stage recorder. Datum of gage is 3,854.62 ft (1,174.888 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 2.0 ft (0.61 m) higher.

AVERAGE DISCHARGE.--40 years, 43.8 ft³/s (1.240 m³/s), 31,730 acre-ft/yr (39.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 440 ft³/s (12.5 m³/s) June 8, gage height, 2.38 ft (0.725 m); minimum daily, 22 ft³/s (0.62 m³/s) Jan. 6-8.
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.

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

REVISIONS (WATER YEARS).--WSP 896: 1935(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	40	38	25	36	32	31	32	114	73	79	137
2	47	40	38	25	35	33	30	30	122	73	79	151
3	47	42	38	24	36	31	35	30	133	66	81	151
4	47	42	37	23	37	32	32	30	128	71	91	151
5	47	40	36	23	37	32	32	30	137	70	93	158
6	45	42	36	22	36	32	33	30	158	70	88	179
7	45	42	37	22	36	32	32	30	188	68	88	190
8	45	47	37	22	35	32	30	30	304	68	91	192
9	46	45	35	26	35	32	31	30	281	68	117	188
10	45	43	36	30	36	32	32	30	206	102	153	192
11	47	40	36	30	37	37	32	33	188	112	114	210
12	45	40	36	30	37	33	32	119	195	100	101	269
13	43	39	35	30	35	34	32	103	195	94	98	272
14	42	38	35	31	35	34	32	118	190	86	91	251
15	42	36	34	36	33	33	32	188	181	79	86	249
16	42	37	34	52	33	33	34	195	188	79	82	244
17	40	36	34	42	33	34	33	156	185	88	84	233
18	40	38	34	37	33	32	32	125	179	88	89	226
19	40	38	33	37	33	31	34	105	176	89	89	207
20	40	37	32	35	30	31	35	105	179	91	84	210
21	40	38	33	36	30	31	35	105	151	106	89	213
22	39	38	33	34	30	32	33	105	124	73	91	215
23	39	36	33	33	30	30	33	103	116	56	88	226
24	38	37	34	33	30	30	34	100	118	84	86	213
25	38	38	33	34	31	30	33	93	122	82	84	210
26	38	38	31	35	30	31	34	77	103	93	86	215
27	38	38	31	34	32	30	31	77	76	82	79	197
28	38	38	31	35	32	31	31	86	68	79	82	177
29	38	38	31	34	------	30	31	82	67	77	88	142
30	38	38	30	35	------	30	32	96	68	81	93	101
31	38	------	30	35	------	33	------	103	------	84	121	------
TOTAL	1,302	1,179	1,061	980	943	990	973	2,576	4,640	2,532	2,865	5,969
MEAN	42.0	39.3	34.2	31.6	33.7	31.9	32.4	83.1	155	81.7	92.4	199
MAX	47	47	38	52	37	37	35	195	304	112	153	272
MIN	38	36	30	22	30	30	30	30	67	56	79	101
AC-FT	2,580	2,340	2,100	1,940	1,870	1,960	1,930	5,110	9,200	5,020	5,680	11,840

CAL YR 1973 TOTAL 23,839 MEAN 65.3 MAX 435 MIN 22 AC-FT 47,280
WTR YR 1974 TOTAL 26,010 MEAN 71.3 MAX 304 MIN 22 AC-FT 51,590

06682000 North Platte River near Minatare, Nebr.

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, 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, 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.--28,700 mi² (74,300 km²), approximately, of which about 22,740 mi² (58,900 km²) contributes directly to surface runoff.

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.

GAGE.--Main channel: Water-stage recorder. Datum of gage is 3,811.7 ft (1,161.81 m) above mean sea level. See WRD Nebr. 1972 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 WRD Nebr. 1972 for history of changes prior to Aug. 25, 1971.

EXTREMES.--Current year: Maximum discharge, 5,540 ft³/s (157 m³/s) Apr. 3; minimum daily, 389 ft³/s (11.0 m³/s) Aug. 3.
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.
Flood of June 18, 1921, may have been greater than flood of July 2, 1917.

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.

REVISIONS.--WSP 1710: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,380	1,630	1,360	1,190	1,330	1,240	5,250	4,230	706	2,000	438	659
2	2,340	1,620	1,360	1,030	1,340	1,570	5,240	3,950	852	1,960	404	778
3	2,210	1,640	1,360	970	1,330	2,010	5,400	3,530	861	1,920	389	827
4	1,640	1,660	1,350	960	1,330	2,490	5,330	3,440	853	1,670	393	855
5	2,060	1,660	1,320	910	1,330	2,900	5,310	3,410	839	1,430	437	822
6	2,000	1,660	1,310	886	1,310	3,300	5,330	3,370	944	1,180	432	822
7	1,950	1,660	1,320	854	1,300	3,780	5,410	2,880	999	981	427	847
8	1,920	1,700	1,300	954	1,270	4,140	5,320	2,520	1,220	794	429	880
9	1,910	1,740	1,290	977	1,190	4,430	5,240	2,280	1,720	650	451	889
10	1,890	1,730	1,290	951	1,180	4,600	5,260	2,100	2,230	610	709	876
11	1,940	1,690	1,290	939	1,190	4,890	5,270	1,770	2,610	606	747	883
12	2,060	1,660	1,280	955	1,220	4,980	4,210	1,610	2,830	591	759	1,050
13	2,200	1,620	1,280	952	1,230	5,060	4,980	1,520	3,140	613	740	1,150
14	2,010	1,610	1,280	997	1,210	5,040	5,180	1,320	3,330	583	648	1,250
15	1,920	1,570	1,270	1,070	1,190	5,020	5,300	1,220	3,370	556	609	1,270
16	1,870	1,550	1,250	1,190	1,180	5,040	5,320	1,090	3,410	532	582	1,250
17	1,830	1,510	1,230	1,400	1,170	5,130	5,350	1,030	3,440	569	525	1,220
18	1,810	1,480	1,300	1,460	1,150	5,100	5,340	1,020	3,440	527	518	1,200
19	1,780	1,470	1,260	1,630	1,130	5,090	5,280	953	3,310	606	511	1,160
20	1,760	1,460	1,260	1,600	1,120	5,010	5,300	915	3,210	642	514	1,140
21	1,750	1,460	1,320	1,610	1,100	5,040	5,260	590	3,040	533	465	1,130
22	1,730	1,460	1,310	1,580	1,080	5,050	5,270	625	2,910	460	476	1,140
23	1,710	1,460	1,320	1,460	1,070	5,010	5,280	586	2,950	400	462	1,240
24	1,720	1,430	1,320	1,420	1,040	5,050	4,940	511	2,960	407	468	1,240
25	1,690	1,430	1,320	1,390	1,030	5,060	4,690	448	2,950	557	494	1,260
26	1,680	1,410	1,310	1,380	1,020	5,080	4,460	414	2,830	606	513	1,350
27	1,670	1,390	1,290	1,360	1,010	5,030	4,370	404	2,750	563	469	1,550
28	1,650	1,370	1,280	1,340	1,010	5,050	4,280	435	2,580	488	469	1,570
29	1,640	1,370	1,260	1,330	------	5,000	4,260	506	2,440	479	503	1,600
30	1,630	1,360	1,250	1,320	------	5,050	4,250	470	2,140	469	546	1,570
31	1,630	------	1,220	1,320	------	5,210	------	511	------	470	577	------
TOTAL	57,980	46,460	40,160	37,385	33,060	136,450	151,680	49,658	70,864	24,452	16,104	33,478
MEAN	1,870	1,549	1,295	1,206	1,181	4,402	5,056	1,602	2,362	789	519	1,116
MAX	2,380	1,740	1,360	1,630	1,340	5,210	5,410	4,230	3,440	2,000	759	1,600
MIN	1,630	1,360	1,220	854	1,010	1,240	4,210	404	706	400	389	659
AC-FT	115,000	92,150	79,660	74,150	65,570	270,600	300,900	98,500	140,600	48,500	31,940	66,400

CAL YR 1973 TOTAL 946,521 MEAN 2,593 MAX 8,510 MIN 741 AC-FT 1,877,000
WTR YR 1974 TOTAL 697,731 MEAN 1,912 MAX 5,410 MIN 389 AC-FT 1,384,000

06682500 Ninemile drain near McGrew, Nebr.

LOCATION.--Lat 41°46'15", long 103°25'18", in SE1/4SE1/4 sec.23, T.21 N., R.53 W., Scotts Bluff County, 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.

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.

AVERAGE DISCHARGE.--42 years, 118 ft³/s (3.342 m³/s), 85,490 acre-ft/yr (0.105 km³/yr).

EXTREMES.--Current year: Maximum discharge, 430 ft³/s (12.2 m³/s) Aug. 10, gage height, 3.11 ft (0.948 m); minimum daily, 59 ft³/s (1.67 m³/s) May 19.
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.

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

REVISIONS (WATER YEARS).--WSP 926: 1936.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	117	97	84	93	80	80	90	217	117	156	212
2	165	115	98	83	93	79	79	89	214	124	154	243
3	154	119	97	83	92	79	82	85	219	125	157	230
4	156	119	97	83	92	80	84	78	204	133	160	204
5	160	121	96	83	93	80	83	78	172	127	155	195
6	156	123	96	84	91	81	85	79	178	120	155	195
7	152	122	98	85	89	83	86	78	178	119	154	195
8	147	140	97	85	88	85	86	79	208	127	154	192
9	144	133	97	85	89	88	85	86	216	132	194	198
10	146	131	98	85	89	90	85	92	197	131	317	198
11	151	127	99	86	87	93	87	83	177	136	290	196
12	158	125	96	85	86	92	62	84	164	143	288	223
13	152	121	97	86	86	94	77	84	161	158	279	219
14	147	119	95	87	85	95	82	81	160	159	270	215
15	144	116	93	85	84	95	81	153	157	157	245	206
16	143	116	92	98	84	95	79	137	156	159	201	206
17	143	115	92	96	84	99	77	87	166	160	182	207
18	140	112	94	101	83	95	75	65	161	158	178	201
19	138	110	90	96	82	91	76	59	153	156	178	200
20	135	107	89	94	81	87	76	60	131	161	170	207
21	134	107	90	96	83	88	81	78	106	157	164	209
22	132	105	89	94	83	88	84	93	106	160	163	200
23	132	104	88	93	82	87	87	88	107	157	165	196
24	129	103	88	93	81	86	81	86	110	154	165	189
25	127	103	87	94	81	85	77	83	115	163	165	189
26	124	100	86	93	81	84	75	88	123	168	167	188
27	123	99	85	92	80	81	74	89	121	167	163	215
28	121	97	85	92	81	80	75	108	120	164	166	182
29	120	98	84	92	------	77	80	138	117	167	178	177
30	118	97	85	93	------	76	88	168	113	160	185	177
31	117	------	85	93	------	81	------	195	------	158	182	------
TOTAL	4,380	3,421	2,860	2,779	2,403	2,674	2,409	2,941	4,727	4,577	5,900	6,064
MEAN	141	114	92.3	89.6	85.8	86.3	80.3	94.9	158	148	190	202
MAX	172	140	99	101	93	99	88	195	219	168	317	243
MIN	117	97	84	83	80	76	62	59	106	117	154	177
AC-FT	8,690	6,790	5,670	5,510	4,770	5,300	4,780	5,830	9,380	9,080	11,700	12,030

CAL YR 1973 TOTAL 48,173 MEAN 132 MAX 486 MIN 44 AC-FT 95,550
WTR YR 1974 TOTAL 45,135 MEAN 124 MAX 317 MIN 59 AC-FT 89,530

06683000 Bayard Sugar Factory drain near Bayard, Nebr.

LOCATION.--Lat 41°44'10", long 103°19'53", in SE1/4NE1/4 sec.5, T.20 N., R.52 W., Morrill County, 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.

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.

AVERAGE DISCHARGE.--43 years, 28.7 ft^3/s (0.813 m^3/s), 20,790 acre-ft/yr (25.6 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 79 ft^3/s (2.24 m^3/s) Aug. 11,12, gage height, 1.65 ft (0.503 m); minimum daily, 0.33 ft^3/s (0.009 m^3/s) May 14.
Period of record: Maximum discharge, 391 ft^3/s (11.1 m^3/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.

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

REVISIONS (WATER YEARS).--WSP 1310: 1937(M), 1941.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	31	28	19	23	22	23	.40	34	4.6	42	58
2	48	31	28	19	25	22	22	.60	33	5.2	43	62
3	49	33	28	19	25	21	22	.98	28	11	41	59
4	51	32	27	19	25	21	21	2.4	26	14	42	56
5	46	32	26	18	25	21	21	6.2	30	15	45	52
6	43	34	26	18	24	20	20	3.5	37	12	50	49
7	43	33	27	18	24	20	20	.67	37	10	46	49
8	42	40	27	18	24	20	20	.61	50	7.0	53	37
9	41	39	25	18	24	21	20	.57	64	13	55	32
10	41	37	25	19	25	21	20	.56	44	14	74	29
11	39	34	25	18	24	23	20	.48	38	16	79	24
12	48	33	25	19	24	23	20	.47	33	14	78	38
13	45	29	25	19	24	24	20	.40	29	19	73	39
14	37	26	25	19	24	26	19	.33	30	19	67	35
15	36	25	24	21	24	27	19	1.2	27	16	61	32
16	35	25	24	39	24	29	19	3.7	22	14	60	29
17	35	26	24	34	24	32	20	7.5	21	15	58	27
18	34	26	24	33	24	28	18	8.5	23	17	60	27
19	34	26	22	33	23	26	8.9	6.1	20	16	63	31
20	34	25	22	30	24	25	7.7	4.1	17	18	61	32
21	34	25	22	28	23	25	3.1	2.1	16	21	59	32
22	34	26	22	24	23	25	.76	4.8	17	25	57	29
23	33	26	21	24	23	25	.60	8.9	18	22	57	27
24	32	26	22	24	22	24	.52	9.6	18	23	58	24
25	33	26	22	24	22	24	.54	9.8	20	28	58	25
26	32	27	20	24	22	24	.45	6.7	17	35	57	26
27	32	27	20	24	22	23	.42	8.8	12	35	56	25
28	32	27	20	24	22	23	.38	16	13	40	56	21
29	31	28	20	24	------	22	.45	31	13	44	58	20
30	32	28	20	24	------	22	.40	32	9.7	42	58	19
31	32	------	20	24	------	24	------	28	------	42	58	------
TOTAL	1,181	883	736	718	662	733	388.22	206.97	796.7	626.8	1,783	1,045
MEAN	38.1	29.4	23.7	23.2	23.6	23.6	12.9	6.68	26.6	20.2	57.5	34.8
MAX	51	40	28	39	25	32	23	32	64	44	79	62
MIN	31	25	20	18	22	20	.38	.33	9.7	4.6	41	19
AC-FT	2,340	1,750	1,460	1,420	1,310	1,450	770	411	1,580	1,240	3,540	2,070

CAL YR 1973 TOTAL 10,232.10 MEAN 28.0 MAX 94 MIN 0 AC-FT 20,300
WTR YR 1974 TOTAL 9,759.69 MEAN 26.7 MAX 79 MIN .33 AC-FT 19,360

06684000 Red Willow Creek near Bayard, Nebr.

LOCATION.--Lat 41°42'50", long 103°15'10", in NE1/4NE1/4 sec.13, T.20 N., R.52 W., Morrill County, 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.

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.

AVERAGE DISCHARGE.--43 years, 86.3 ft^3/s (2.444 m^3/s), 62,520 acre-ft/yr (77.1 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 372 ft^3/s (10.5 m^3/s) June 9, gage height, 2.23 ft (0.680 m); minimum daily, 44 ft^3/s (1.25 m^3/s) Apr. 30.
Period of record: Maximum discharge, 2,320 ft^3/s (65.7 m^3/s) July 3, 1956, gage height, 7.33 ft (2.234 m); maximum gage height, 7.8 ft (2.38 m) May 10, 1942, from floodmark, present datum; minimum daily discharge, 15 ft^3/s (0.42 m^3/s) Apr. 23, 1935, Apr. 26, 1962.

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.

REVISIONS (WATER YEARS).--WSP 1310: 1937(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	94	89	79	83	73	80	49	152	75	104	287
2	154	92	88	77	83	73	79	52	150	84	102	287
3	154	93	87	75	83	72	76	49	152	79	106	284
4	147	94	85	77	83	73	76	51	133	75	99	281
5	130	95	83	74	82	73	74	52	139	82	102	300
6	124	96	83	77	80	73	74	58	181	80	84	306
7	121	96	84	77	78	73	76	58	203	73	87	323
8	121	105	83	79	77	70	74	50	270	69	96	316
9	119	106	83	79	76	69	72	267	354	71	113	315
10	115	106	83	80	76	71	76	223	309	75	225	290
11	119	102	83	81	77	79	59	175	305	90	190	244
12	128	102	83	82	77	77	53	168	285	93	181	249
13	127	99	83	82	76	78	51	167	245	98	161	278
14	117	99	83	83	75	81	52	159	226	103	161	350
15	114	98	81	83	75	83	52	213	210	104	168	350
16	110	98	81	93	77	83	53	240	198	105	150	352
17	107	97	81	95	76	82	53	153	185	108	145	335
18	105	97	85	96	76	80	53	154	183	112	148	314
19	103	95	81	96	74	79	61	169	167	106	151	293
20	102	92	80	95	74	80	65	165	163	99	152	273
21	100	93	80	95	73	80	59	109	158	105	143	269
22	99	93	80	91	73	79	52	83	167	112	138	257
23	99	93	80	90	72	78	49	84	165	106	138	252
24	99	92	79	87	72	78	56	98	165	114	142	198
25	100	92	79	87	74	79	62	95	157	140	156	178
26	98	90	79	87	73	79	63	100	146	135	169	178
27	98	89	77	88	73	79	60	75	121	133	175	219
28	98	87	77	86	71	79	53	73	100	132	169	202
29	96	87	77	86	------	76	46	88	81	137	176	181
30	96	88	77	83	------	76	44	107	78	126	208	179
31	94	------	77	83	------	81	------	131	------	114	244	------
TOTAL	3,576	2,860	2,531	2,623	2,139	2,386	1,853	3,715	5,548	3,135	4,583	8,140
MEAN	115	95.3	81.6	84.6	76.4	77.0	61.8	120	185	101	148	271
MAX	182	106	89	96	83	83	80	267	354	140	244	352
MIN	94	87	77	74	71	69	44	49	78	69	84	178
AC-FT	7,090	5,670	5,020	5,200	4,240	4,730	3,680	7,370	11,000	6,220	9,090	16,150

CAL YR 1973 TOTAL 39,686 MEAN 109 MAX 376 MIN 42 AC-FT 78,720
WTR YR 1974 TOTAL 43,089 MEAN 118 MAX 354 MIN 44 AC-FT 85,470

06684500 North Platte River at Bridgeport, Nebr.

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, 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.--29,300 mi² (75,900 km²), approximately, of which about 23,300 mi² (60,300 km²) contributes directly to surface runoff.

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.

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.

EXTREMES.--Current year: Maximum discharge, 5,990 ft³/s (170 m³/s) Mar. 18; minimum daily, 511 ft³/s (14.5 m³/s) May 27.
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.

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. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1390: 1897, 1915. WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,050	1,810	1,460	1,320	1,580	1,280	5,030	4,800	916	1,870	737	1,170
2	2,920	1,810	1,480	1,290	1,550	1,430	4,960	4,710	1,120	1,800	692	1,280
3	2,780	1,860	1,530	1,230	1,520	1,700	5,060	3,870	1,200	1,700	692	1,370
4	2,650	1,900	1,500	1,000	1,490	2,120	5,220	3,520	1,140	1,600	695	1,410
5	2,550	1,900	1,490	900	1,490	2,690	5,190	3,330	1,160	1,400	713	1,490
6	2,480	1,900	1,470	1,000	1,490	3,140	5,320	3,170	1,180	1,240	672	1,550
7	2,420	1,860	1,490	1,080	1,500	3,640	5,440	2,830	1,280	1,050	663	1,560
8	2,360	1,870	1,500	1,080	1,480	4,080	5,510	2,400	1,430	919	678	1,550
9	2,310	1,960	1,550	1,200	1,440	4,420	5,380	2,360	1,980	830	692	1,530
10	2,300	1,960	1,550	1,400	1,370	4,620	5,350	2,280	2,460	767	1,140	1,500
11	2,370	1,920	1,580	1,400	1,370	5,000	5,410	2,090	2,730	762	1,270	1,460
12	2,570	1,880	1,630	1,500	1,400	5,090	4,780	1,850	2,890	772	1,300	1,600
13	2,760	1,880	1,610	1,650	1,410	5,320	4,650	1,760	3,030	792	1,270	1,650
14	2,600	1,850	1,580	1,700	1,400	5,440	5,090	1,630	3,200	767	1,190	1,740
15	2,360	1,810	1,490	1,800	1,380	5,770	5,320	1,620	3,260	744	1,120	1,760
16	2,220	1,790	1,440	1,850	1,420	5,740	5,380	1,630	3,290	713	1,040	1,740
17	2,150	1,780	1,380	1,800	1,430	5,770	5,380	1,370	3,330	710	964	1,780
18	2,090	1,690	1,440	1,850	1,420	5,840	5,350	1,300	3,300	700	923	1,720
19	2,060	1,610	1,420	1,910	1,370	5,570	5,350	1,260	3,220	677	922	1,690
20	2,010	1,550	1,380	1,960	1,420	5,410	5,350	1,160	3,070	723	923	1,680
21	2,000	1,500	1,460	1,910	1,420	5,250	5,320	1,050	2,880	723	875	1,680
22	1,960	1,560	1,380	1,820	1,400	5,250	5,320	879	2,710	696	869	1,680
23	1,960	1,570	1,350	1,700	1,420	5,190	5,320	732	2,760	636	824	1,730
24	1,960	1,580	1,360	1,600	1,410	5,000	5,250	659	2,890	613	797	1,730
25	1,930	1,600	1,380	1,570	1,380	5,030	5,120	598	2,890	720	811	1,700
26	1,930	1,600	1,370	1,570	1,360	5,060	4,960	560	2,820	785	820	1,770
27	1,900	1,570	1,360	1,580	1,320	5,000	4,900	511	2,630	802	814	1,870
28	1,870	1,550	1,340	1,580	1,250	4,960	4,840	533	2,460	760	787	2,010
29	1,870	1,480	1,340	1,600	------	4,930	4,770	653	2,300	755	848	1,970
30	1,850	1,460	1,350	1,600	------	4,840	4,800	783	2,100	750	918	2,010
31	1,810	------	1,310	1,600	------	5,000	------	803	------	750	1,040	------
TOTAL	70,050	52,060	44,970	47,050	39,890	139,580	155,120	56,701	71,626	28,526	27,699	49,380
MEAN	2,260	1,735	1,451	1,518	1,425	4,503	5,171	1,829	2,388	920	894	1,646
MAX	3,050	1,960	1,630	1,960	1,580	5,840	5,510	4,800	3,330	1,870	1,300	2,010
MIN	1,810	1,460	1,310	900	1,250	1,280	4,650	511	916	613	663	1,170
AC-FT	138,900	103,300	89,200	93,320	79,120	276,900	307,700	112,500	142,100	56,580	54,940	97,950

CAL YR 1973 TOTAL 1,091,344 MEAN 2,990 MAX 10,300 MIN 720 AC-FT 2,165,000
WTR YR 1974 TOTAL 782,652 MEAN 2,144 MAX 5,840 MIN 511 AC-FT 1,552,000

06685000 Pumpkin Creek near Bridgeport, Nebr.

LOCATION.--Lat 41°37'38", long 103°02'10", in SW1/4 sec.12, T.19 N., R.50 W., Morrill County, 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.

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.

AVERAGE DISCHARGE.--43 years, 31.0 ft³/s (0.878 m³/s), 22,460 acre-ft/yr (27.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 74 ft³/s (2.10 m³/s) May 7, gage height, 2.35 ft (0.716 m); maximum gage height, 2.65 ft (0.808 m) Jan. 2, backwater from ice; minimum daily discharge, 0.57 ft³/s (0.016 m³/s) July 20.
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; minimum daily, 0.4 ft³/s (0.011 m³/s) Aug. 6, 1936, May 11, 1955.

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

REVISIONS (WATER YEARS).--WSP 1390: 1932, 1934(M), 1935, 1936(M), 1938-39. WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	25	28	15	28	30	32	31	10	2.7	1.1	8.3
2	24	26	28	15	29	30	32	32	12	2.7	1.2	8.0
3	23	26	27	20	29	30	32	32	16	2.7	1.3	7.8
4	23	26	28	23	29	30	32	22	16	2.8	1.4	7.8
5	24	25	27	20	29	29	32	23	16	2.3	1.4	7.8
6	22	25	23	20	29	29	32	26	17	1.1	1.6	7.7
7	21	25	25	20	25	29	32	66	22	1.1	1.5	8.3
8	21	27	28	19	27	30	32	29	33	.77	1.5	8.0
9	21	27	27	19	29	29	33	12	40	.88	2.9	8.3
10	21	27	24	18	29	30	33	13	41	.82	18	8.3
11	23	27	25	18	30	32	34	11	39	.84	8.0	9.2
12	25	26	27	16	31	33	34	10	38	.88	2.6	10
13	26	24	25	18	31	34	33	15	37	1.1	3.2	11
14	26	24	25	20	31	34	33	13	35	.88	3.4	11
15	25	23	25	25	32	33	33	14	32	.74	2.8	11
16	24	24	25	30	31	33	33	7.7	32	.69	2.6	11
17	24	24	25	35	31	33	32	3.5	32	.67	2.6	12
18	24	24	26	32	31	33	32	3.3	31	.63	2.6	13
19	24	26	25	32	30	32	32	4.0	30	.72	3.3	18
20	24	27	20	32	31	33	32	5.4	18	.57	6.4	17
21	23	25	26	32	31	34	31	4.4	17	.63	6.6	18
22	24	28	27	28	28	34	30	3.8	17	.81	6.6	18
23	24	30	26	23	30	34	30	3.8	17	.96	6.3	15
24	28	29	26	23	31	34	30	3.7	22	1.4	6.8	14
25	28	28	23	24	29	34	31	3.6	16	3.3	8.0	14
26	28	28	21	25	32	34	31	3.5	11	3.5	8.2	14
27	28	27	20	26	32	33	31	3.5	8.7	1.4	8.6	14
28	27	28	20	26	31	32	30	3.3	3.2	1.2	8.6	14
29	28	27	19	25	------	32	30	3.7	2.9	1.2	8.3	14
30	27	28	19	25	------	32	30	7.4	3.0	1.2	8.3	14
31	25	------	18	27	------	32	------	9.2	------	1.1	8.3	------
TOTAL	760	786	758	731	836	991	954	422.8	664.8	42.29	154.0	352.5
MEAN	24.5	26.2	24.5	23.6	29.9	32.0	31.8	13.6	22.2	1.36	4.97	11.8
MAX	28	30	28	35	32	34	34	66	41	3.5	18	18
MIN	21	23	18	15	25	29	30	3.3	2.9	.57	1.1	7.7
AC-FT	1,510	1,560	1,500	1,450	1,660	1,970	1,890	839	1,320	84	305	699

CAL YR 1973 TOTAL 8,635.02 MEAN 23.7 MAX 65 MIN .42 AC-FT 17,130
WTR YR 1974 TOTAL 7,452.39 MEAN 20.4 MAX 66 MIN .57 AC-FT 14,780

06686000 North Platte River at Lisco, Nebr.

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

DRAINAGE AREA.--30,700 mi² (79,500 km²), approximately, of which about 24,700 mi² (64,000 km²) contributes directly to surface runoff.

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.

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.

EXTREMES.--Current year: Maximum discharge, 6,020 ft³/s (170 m³/s) Apr. 8, gage height, 2.92 ft (0.890 m); maximum gage height, 3.35 ft (1.021 m) Jan. 1, backwater from ice; minimum daily discharge, 580 ft³/s (16.4 m³/s) Aug. 3,4,7.
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.

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. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,920	1,940	1,740	740	1,780	1,460	5,590	4,460	890	1,900	640	1,170
2	3,460	1,900	1,760	740	1,780	1,600	5,510	4,430	970	1,780	650	1,290
3	3,360	1,940	1,760	800	1,720	1,860	5,510	4,170	1,140	1,670	580	1,410
4	3,220	1,970	1,700	1,000	1,690	2,180	5,550	3,790	1,250	1,600	580	1,470
5	3,130	1,910	1,630	1,050	1,640	2,530	5,630	3,540	1,270	1,470	630	1,480
6	3,000	1,940	1,560	1,100	1,530	2,980	5,590	3,390	1,230	1,240	620	1,530
7	2,900	1,910	1,550	1,160	1,570	3,440	5,750	3,250	1,320	1,060	580	1,590
8	2,800	1,900	1,570	1,250	1,500	3,890	5,840	2,880	1,540	940	590	1,560
9	2,700	2,030	1,560	1,350	1,510	4,200	5,790	2,680	2,060	850	661	1,590
10	2,600	2,100	1,560	1,350	1,510	4,620	5,670	2,680	2,330	750	1,000	1,640
11	2,660	2,100	1,600	1,450	1,510	5,080	5,750	2,470	2,680	710	1,190	1,690
12	2,760	2,050	1,660	1,500	1,470	5,470	5,710	2,280	3,050	680	1,240	1,730
13	2,900	2,020	1,660	1,650	1,470	5,590	4,870	2,130	3,180	670	1,260	1,790
14	2,900	1,980	1,660	1,650	1,500	5,590	4,940	2,000	3,390	710	1,250	1,860
15	2,620	1,960	1,640	1,900	1,530	5,630	5,180	1,840	3,490	710	1,190	1,940
16	2,460	1,960	1,630	1,950	1,560	5,630	5,320	1,820	3,440	690	1,170	1,970
17	2,380	1,960	1,630	2,000	1,590	5,630	5,430	1,690	3,340	720	1,080	1,960
18	2,330	1,920	1,600	2,050	1,590	5,670	5,550	1,510	3,420	710	1,000	1,920
19	2,230	1,880	1,400	2,100	1,530	5,670	5,630	1,420	3,420	700	950	1,920
20	2,180	1,860	1,300	2,100	1,560	5,630	5,630	1,320	3,270	670	960	1,910
21	2,140	1,880	1,350	2,150	1,520	5,590	5,630	1,200	3,160	700	900	1,880
22	2,100	1,910	1,500	2,160	1,510	5,470	5,630	1,120	2,900	670	870	1,860
23	2,060	1,900	1,500	1,970	1,510	5,550	5,550	1,070	2,800	620	850	1,850
24	2,000	1,860	1,500	1,880	1,480	5,550	5,550	890	2,780	632	840	1,860
25	1,970	1,840	1,550	1,790	1,470	5,430	5,360	780	2,740	660	850	1,780
26	1,980	1,820	1,550	1,790	1,500	5,470	5,040	720	2,640	700	870	1,790
27	1,980	1,760	1,500	1,790	1,500	5,470	4,710	680	2,530	720	880	1,840
28	1,970	1,700	1,450	1,760	1,430	5,390	4,560	590	2,400	720	890	1,980
29	1,960	1,740	1,450	1,740	------	5,390	4,490	604	2,190	710	950	2,000
30	1,920	1,760	1,400	1,740	------	5,360	4,460	992	2,060	710	1,020	2,000
31	1,920	------	1,400	1,740	------	5,390	------	880	------	680	1,090	------
TOTAL	78,510	57,400	48,320	49,400	43,460	144,410	161,420	63,276	72,880	27,752	27,831	52,260
MEAN	2,533	1,913	1,559	1,594	1,552	4,658	5,381	2,041	2,429	895	898	1,742
MAX	3,920	2,100	1,760	2,160	1,780	5,670	5,840	4,460	3,490	1,900	1,260	2,000
MIN	1,920	1,700	1,300	740	1,430	1,460	4,460	590	890	620	580	1,170
AC-FT	155,700	113,900	95,840	97,980	86,200	286,400	320,200	125,500	144,600	55,050	55,200	103,700

CAL YR 1973 TOTAL 1,142,560 MEAN 3,130 MAX 9,550 MIN 860 AC-FT 2,266,000
WTR YR 1974 TOTAL 826,919 MEAN 2,266 MAX 5,840 MIN 580 AC-FT 1,640,000

06687000 Blue Creek near Lewellen, Nebr.

LOCATION.--Lat 41°20'07", long 102°10'21", in NE1/4 sec.30, T.16 N., R.42 W., Garden County, 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.--1,120 mi² (2,900 km²), approximately, of which about 80 mi² (210 km²) contributes directly to surface runoff.

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

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.

AVERAGE DISCHARGE.--44 years, 69.8 ft³/s (1.977 m³/s), 50,570 acre-ft/yr (62.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 144 ft³/s (4.08 m³/s) May 30, gage height, 3.85 ft (1.173 m); maximum gage height, 5.72 ft (1.743 m) Jan. 11, backwater from ice; minimum daily discharge, 0.21 ft³/s (0.006 m³/s) Aug. 3.
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.

REMARKS.--Records good 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.

REVISIONS (WATER YEARS).--WSP 1310: 1941(M). WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	94	102	65	108	113	104	92	45	1.8	.28	27
2	75	93	103	65	112	110	104	92	37	1.5	.23	27
3	70	95	104	65	111	109	98	90	31	.94	.21	27
4	66	97	101	70	111	103	96	91	25	.76	.23	27
5	66	97	97	70	112	100	100	90	30	.79	.33	27
6	67	100	98	90	95	99	102	86	65	.86	.56	25
7	67	100	98	90	95	98	104	77	54	1.6	.67	25
8	68	98	101	90	95	98	108	77	58	2.2	.84	24
9	74	100	100	100	100	98	106	79	87	.74	1.9	24
10	85	100	96	105	103	96	102	66	96	.69	14	25
11	89	100	101	105	103	104	108	56	82	.65	18	26
12	95	98	101	110	106	108	121	55	60	1.0	13	31
13	102	97	101	110	103	111	108	49	41	.66	7.1	30
14	104	95	102	115	102	107	99	45	35	.69	5.6	28
15	100	95	101	120	104	103	99	43	33	.88	2.1	26
16	94	94	100	120	106	98	97	42	29	.42	.88	34
17	93	94	102	120	106	100	98	40	18	.42	.28	30
18	94	96	103	125	107	99	99	33	16	.42	.31	31
19	94	95	60	115	107	98	98	40	12	.42	.36	27
20	94	93	70	110	111	96	102	46	9.4	.40	.51	23
21	94	93	80	103	109	94	114	44	3.5	.42	1.3	23
22	94	107	90	98	106	98	106	41	2.4	.42	1.2	24
23	94	101	100	96	111	93	102	41	1.2	.45	7.3	23
24	90	100	105	98	108	92	97	40	.41	.44	19	23
25	94	100	105	102	113	94	99	41	3.6	.51	26	23
26	94	101	110	104	117	96	98	45	1.9	.53	23	23
27	94	101	108	105	119	94	94	30	.49	.38	19	26
28	93	100	90	104	113	94	93	6.1	.26	3.5	18	32
29	93	103	85	105	------	92	93	3.3	.41	.50	17	36
30	92	104	80	105	------	92	93	73	.66	.50	19	32
31	93	------	70	107	------	97	------	80	------	.32	24	------
TOTAL	2,701	2,941	2,964	3,087	2,993	3,084	3,042	1,733.4	878.23	25.81	242.19	809
MEAN	87.1	98.0	95.6	99.6	107	99.5	101	55.9	29.3	.83	7.81	27.0
MAX	104	107	110	125	119	113	121	92	96	3.5	26	36
MIN	66	93	60	65	95	92	93	3.3	.26	.32	.21	23
AC-FT	5,360	5,830	5,880	6,120	5,940	6,120	6,030	3,440	1,740	51	480	1,600

CAL YR 1973 TOTAL 25,130.10 MEAN 68.8 MAX 135 MIN .25 AC-FT 49,850
WTR YR 1974 TOTAL 24,500.63 MEAN 67.1 MAX 125 MIN .21 AC-FT 48,600

06687500 North Platte River at Lewellen, Nebr.

LOCATION.--Lat 41°18'37", long 102°09'00", in SE1/4NW1/4 sec.33, T.16 N., R.42 W., Garden County, 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.--32,600 mi² (84,400 km²), approximately, of which about 25,400 mi² (65,800 km²) contributes directly to surface runoff.

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

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.

EXTREMES.--Current year: Maximum discharge, 6,110 ft³/s (173 m³/s) Apr. 11, gage height, 6.70 ft (2.042 m); maximum gage height, 6.98 ft (2.128 m) Dec. 19, backwater from ice; minimum daily discharge, 552 ft³/s (15.6 m³/s) Aug. 4.
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.

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.

REVISIONS.--WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,010	2,250	1,870	1,050	2,050	1,520	5,510	4,400	932	2,100	628	990
2	3,980	2,220	1,940	1,000	1,800	1,450	5,510	4,460	951	1,820	628	1,110
3	3,480	2,250	1,940	1,120	1,820	1,540	5,440	4,560	1,070	1,710	628	1,230
4	3,110	2,170	1,940	1,160	1,850	1,690	5,370	4,370	1,170	1,620	552	1,310
5	2,940	2,130	1,940	1,240	1,850	2,050	5,440	4,080	1,210	1,580	590	1,450
6	2,860	2,220	1,890	1,300	1,760	2,620	5,510	3,770	1,310	1,480	609	1,500
7	2,680	2,080	1,870	1,350	1,750	2,940	5,550	3,590	1,390	1,290	571	1,710
8	2,600	1,980	1,730	1,450	1,750	3,450	5,700	3,390	1,710	1,130	666	1,760
9	2,500	2,080	1,650	1,500	1,750	3,770	5,850	3,080	2,300	1,090	666	1,670
10	2,420	2,270	1,690	1,550	1,750	4,210	5,960	2,940	2,370	856	951	1,600
11	2,650	2,320	1,730	1,600	1,700	4,560	6,000	2,780	2,600	856	1,130	1,600
12	2,780	2,320	1,760	1,800	1,700	4,870	5,960	2,570	2,860	780	1,290	1,650
13	2,940	2,320	1,730	1,800	1,700	5,370	5,700	2,320	3,050	723	1,290	1,690
14	3,160	2,300	1,730	1,850	1,710	5,550	5,010	2,150	3,190	685	1,250	1,760
15	3,110	2,150	1,670	1,900	1,670	5,550	5,120	2,010	3,300	780	1,230	1,850
16	2,780	2,050	1,560	1,900	1,620	5,550	5,300	1,920	3,160	780	1,190	1,940
17	2,570	1,980	1,520	2,000	1,650	5,580	5,620	1,890	3,250	685	1,090	1,980
18	2,440	1,800	1,580	2,050	1,650	5,510	5,620	1,780	3,360	666	913	2,010
19	2,400	1,850	1,200	2,100	1,540	5,440	5,580	1,580	3,420	685	875	1,870
20	2,420	2,030	1,080	2,150	1,650	5,440	5,400	1,580	3,360	666	951	1,780
21	2,370	2,050	1,250	2,200	1,650	5,440	5,550	1,430	3,250	666	932	1,730
22	2,250	2,100	1,350	2,250	1,600	5,400	5,730	1,310	3,080	685	894	1,670
23	2,170	2,050	1,350	2,300	1,670	5,440	5,770	1,230	2,940	666	894	1,760
24	2,130	2,010	1,450	2,350	1,560	5,510	5,730	1,170	2,830	590	780	1,850
25	2,050	1,960	1,600	2,350	1,620	5,620	5,660	951	2,780	647	742	1,870
26	2,100	1,960	1,750	2,400	1,650	5,620	5,260	799	2,650	628	761	1,780
27	2,150	1,890	1,750	2,400	1,650	5,580	5,010	780	2,600	704	780	1,760
28	2,150	1,960	1,600	2,400	1,540	5,550	4,530	704	2,550	704	799	1,870
29	2,150	2,030	1,500	2,350	------	5,550	4,210	571	2,370	704	837	2,170
30	2,170	1,870	1,300	2,300	------	5,580	4,270	1,140	2,250	723	875	2,010
31	2,250	------	1,100	2,200	------	5,550	------	1,110	------	666	913	------
TOTAL	82,770	62,650	50,020	57,370	47,660	139,500	162,870	70,415	73,263	29,365	26,905	50,930
MEAN	2,670	2,088	1,614	1,851	1,702	4,500	5,429	2,271	2,442	947	868	1,698
MAX	5,010	2,320	1,940	2,400	2,050	5,620	6,000	4,560	3,420	2,100	1,290	2,170
MIN	2,050	1,800	1,080	1,000	1,540	1,450	4,210	571	932	590	552	990
AC-FT	164,200	124,300	99,210	113,800	94,530	276,700	323,100	139,700	145,300	58,250	53,370	101,000

CAL YR 1973 TOTAL 744,683.3 MEAN 2,040 MAX 7,000 MIN 1.8 AC-FT 1,477,000
WTR YR 1974 TOTAL 853,718.0 MEAN 2,339 MAX 6,000 MIN 552 AC-FT 1,693,000

06690000 Lake McConaughy near Keystone, Nebr. 1974

LOCATION.--Lat 41°12'45", long 101°40'03", in NW1/4SW1/4 sec.3, T.14 N., R.38 W., Keith County, 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.

EXTREMES.--Current year: Maximum contents observed, 1,690,000 acre-ft (2.08 km³) Oct. 1-2, elevation, 3,261.6 ft (994.14 m); minimum observed, 1,285,000 acre-ft (1.58 km³) Sept. 16,17,22-26, elevation, 3,246.5 ft (989.53 m).
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 hm³) Sept. 29, 1941, elevation, 3,153.4 ft (961.16 m).

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 (954.02 m), sill of outlet gates, and 3,270.0 ft (996.70 m), top of morning-glory spillway gates. Elevation of crest of morning-glory spillway is 3,254.0 ft (991.82 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.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents	Change in contents (acre-feet)
Sept. 30	3,261.6	1,690,000	-
Oct. 31	3,259.9	1,641,000	-49,000
Nov. 30	3,259.4	1,627,000	-14,000
Dec. 31	3,258.4	1,598,000	-29,000
CAL YR 1973	-	-	+56,000
Jan. 31	3,258.6	1,604,000	+6,000
Feb. 28	3,257.9	1,584,000	-20,000
Mar. 31	3,257.5	1,573,000	-11,000
Apr. 30	3,258.7	1,607,000	+34,000
May 31	3,259.2	1,621,000	+14,000
June 30	3,259.7	1,635,000	+14,000
July 31	3,252.2	1,429,000	-206,000
Aug. 31	3,247.4	1,307,000	-122,000
Sept. 30	3,246.6	1,288,000	-19,000
WTR YR 1974	-	-	-402,000

06690500 North Platte River near Keystone, Nebr.

LOCATION.--Lat 41°12'30", long 101°37'50", in SW1/4 sec.1, T.14 N., R.38 W., Keith County, 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.--33,300 mi² (86,200 km²), approximately, of which about 25,800 mi² (66,800 km²) contributes directly to surface runoff.

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.

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.

EXTREMES.--Current year: Maximum discharge, 4,130 ft³/s (117 m³/s) Mar. 28, gage height, 6.16 ft (1.878 m); minimum daily, 62 ft³/s (1.76 m³/s) June 11-14.
Period of record: Maximum discharge, 20,300 ft³/s (575 m³/s) June 30, 1917, from graph based on daily gage readings; an observation of no flow was made Mar. 21, 1945.

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 since Feb. 9, 1941. (See preceding page.) Supply canal for Nebraska Public Power District diverts 0.2 mi (0.3 km) upstream from station. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1390: 1942, 1946-47. WSP 1630: 1958. WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,750	1,160	972	663	675	1,500	3,660	1,210	164	2,010	1,870	671
2	2,750	1,140	977	724	671	1,490	3,660	1,220	167	2,070	2,010	567
3	2,750	1,140	972	779	672	1,510	3,700	977	170	2,180	2,140	424
4	2,810	1,150	979	784	663	1,530	3,670	617	170	2,200	2,140	110
5	2,700	1,140	958	770	668	1,470	3,660	495	170	2,250	1,980	95
6	2,270	1,140	971	715	664	1,370	3,660	391	170	2,410	1,670	84
7	2,300	1,140	900	581	665	1,800	3,680	181	173	2,430	1,370	116
8	2,350	1,140	869	518	731	2,210	3,670	159	179	2,450	1,200	100
9	2,400	1,140	827	431	672	2,290	3,660	159	220	2,470	776	95
10	2,430	1,120	846	420	648	2,390	3,670	167	134	2,470	486	95
11	2,480	1,120	817	415	653	2,510	3,710	167	62	2,470	479	95
12	2,460	1,120	847	427	658	2,620	3,680	119	62	2,470	473	102
13	2,420	1,120	782	446	652	3,150	3,710	259	62	2,470	467	110
14	2,410	1,140	790	433	653	3,530	3,700	300	62	2,450	538	108
15	2,430	1,100	784	419	653	3,550	3,530	186	64	2,430	832	108
16	2,430	1,100	780	456	737	3,520	2,950	170	64	2,410	842	110
17	2,420	1,110	740	623	1,020	3,490	2,770	167	104	2,410	832	116
18	2,170	1,080	725	638	1,190	3,550	2,710	164	202	2,490	832	110
19	1,780	1,110	705	664	1,330	3,740	2,640	167	130	2,670	900	116
20	1,740	1,110	692	666	1,460	3,770	2,460	170	279	2,670	1,030	121
21	1,750	1,080	680	689	1,540	3,770	2,500	173	636	2,640	1,020	119
22	1,740	1,080	672	726	1,500	3,730	2,370	173	951	2,620	994	112
23	1,700	1,080	671	702	1,420	3,730	2,240	170	1,020	2,580	983	110
24	1,810	1,080	684	681	1,400	3,680	2,260	167	1,220	2,600	972	112
25	1,720	1,070	675	679	1,350	3,680	2,270	167	1,870	2,410	962	110
26	1,710	1,070	675	684	1,410	3,630	2,130	167	2,070	2,250	941	100
27	1,690	1,080	666	685	1,530	3,660	1,890	170	2,050	2,270	931	110
28	1,680	1,070	671	677	1,490	3,660	1,880	167	2,050	2,290	910	104
29	1,540	1,000	667	682	------	3,660	1,900	167	2,030	2,180	910	100
30	1,150	962	673	701	------	3,660	1,560	173	2,050	1,890	832	102
31	1,180	------	668	664	------	3,680	------	161	------	1,910	723	------
TOTAL	65,920	33,092	24,335	19,142	27,375	91,530	89,550	9,300	18,755	73,520	33,045	4,532
MEAN	2,126	1,103	785	617	978	2,953	2,985	300	625	2,372	1,066	151
MAX	2,810	1,160	979	784	1,540	3,770	3,710	1,220	2,070	2,670	2,140	671
MIN	1,150	962	666	415	648	1,370	1,560	119	62	1,890	467	84
AC-FT	130,800	65,640	48,270	37,970	54,300	181,500	177,600	18,450	37,200	145,800	65,540	8,990

CAL YR 1973 TOTAL 672,590.3 MEAN 1,843 MAX 7,000 MIN 1.8 AC-FT 1,334,000
WTR YR 1974 TOTAL 490,096.0 MEAN 1,343 MAX 3,770 MIN 62 AC-FT 972,100

06691000 North Platte River near Sutherland, Nebr.

LOCATION.--Lat 41°12'37", long 101°06'53", in sec.4, T.14 N., R.33 W., Lincoln County, 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.--33,800 mi² (87,500 km²), approximately, of which about 26,120 mi² (67,700 km²) contributes directly to surface runoff.

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.

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.

EXTREMES.--Current year: Maximum discharge, 3,890 ft³/s (110 m³/s) Mar. 21, gage height, 4.69 ft (1.430 m); minimum daily, 43 ft³/s (1.22 m³/s) Sept. 28.
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.

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.

REVISIONS (WATER YEARS).--WSP 976: 1942. WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,840	1,290	1,130	839	802	1,630	3,720	1,420	92	1,490	1,440	454
2	2,800	1,250	1,130	700	824	1,640	3,720	1,190	86	1,460	1,470	417
3	2,780	1,260	1,130	700	802	1,640	3,650	1,150	78	1,500	1,540	328
4	2,810	1,300	1,120	740	787	1,660	3,680	930	70	1,560	1,630	257
5	2,830	1,300	1,130	780	780	1,660	3,700	616	64	1,580	1,700	132
6	2,810	1,260	1,080	720	760	1,630	3,670	490	64	1,590	1,550	97
7	2,470	1,270	1,130	660	760	1,500	3,750	371	66	1,690	1,270	80
8	2,380	1,290	998	600	780	1,920	3,820	207	114	1,810	1,290	77
9	2,420	1,300	972	580	800	2,210	3,700	194	568	1,850	1,180	73
10	2,490	1,290	922	540	831	2,340	3,630	167	384	1,860	766	72
11	2,640	1,290	947	550	809	2,490	3,730	150	258	1,880	485	71
12	2,730	1,290	930	520	802	2,620	3,790	128	179	1,900	399	68
13	2,640	1,300	955	550	802	2,710	3,750	98	130	1,870	353	65
14	2,580	1,290	907	650	787	3,030	3,730	117	96	1,850	323	64
15	2,550	1,300	884	800	795	3,610	3,720	167	74	1,860	377	63
16	2,540	1,260	861	900	809	3,550	3,650	112	74	1,840	605	60
17	2,550	1,250	869	1,000	907	3,510	3,120	107	64	1,780	605	59
18	2,540	1,240	861	1,010	1,190	3,550	2,870	98	62	1,780	579	58
19	2,350	1,230	846	1,000	1,310	3,530	2,740	96	90	1,850	561	55
20	1,980	1,280	884	950	1,510	3,770	2,840	96	64	1,970	608	53
21	1,870	1,260	891	981	1,620	3,820	2,650	130	96	2,030	635	52
22	1,820	1,270	817	938	1,680	3,820	2,620	98	274	2,040	602	49
23	1,800	1,260	780	914	1,640	3,820	2,470	96	511	2,060	588	47
24	1,780	1,260	773	876	1,550	3,770	2,300	94	586	2,110	570	44
25	1,780	1,260	824	846	1,560	3,770	2,300	90	795	2,250	577	44
26	1,740	1,260	766	824	1,520	3,730	2,270	96	1,280	2,080	591	44
27	1,740	1,240	759	809	1,590	3,720	2,090	92	1,400	1,840	594	45
28	1,720	1,250	780	809	1,660	3,720	1,850	92	1,400	1,860	605	43
29	1,720	1,230	787	802	------	3,700	1,810	90	1,430	1,880	624	47
30	1,570	1,170	787	817	------	3,700	1,820	107	1,460	1,710	651	54
31	1,320	------	824	824	------	3,630	------	103	------	1,440	544	------
TOTAL	70,590	38,000	28,474	24,229	30,467	91,400	93,160	8,992	11,909	56,270	25,312	3,072
MEAN	2,277	1,267	919	782	1,088	2,948	3,105	290	397	1,815	817	102
MAX	2,840	1,300	1,130	1,010	1,680	3,820	3,820	1,420	1,460	2,250	1,700	454
MIN	1,320	1,170	759	520	760	1,500	1,810	90	62	1,440	323	43
AC-FT	140,000	75,370	56,480	48,060	60,430	181,300	184,800	17,840	23,620	111,600	50,210	6,090

CAL YR 1973 TOTAL 653,439 MEAN 1,790 MAX 6,660 MIN 100 AC-FT 1,296,000
WTR YR 1974 TOTAL 481,875 MEAN 1,320 MAX 3,820 MIN 43 AC-FT 955,800

06692000 Birdwood Creek near Hershey, Nebr.

LOCATION.--Lat 41°13'20", long 101°04'12", in NE1/4NW1/4 sec.2, T.14 N., R.33 W., Lincoln County, 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.--1,000 mi² (2,590 km²), approximately, of which about 80 mi² (210 km²) contributes directly to surface runoff.

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

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.

AVERAGE DISCHARGE.--43 years, 153 ft³/s (4.333 m³/s), 110,800 acre-ft/yr (0.137 km³/yr).

EXTREMES.--Current year: Maximum discharge, 330 ft³/s (9.35 m³/s) May 21, gage height, 2.14 ft (0.652 m); maximum gage height, 4.22 ft (1.286 m) Jan. 2, backwater from ice; minimum daily discharge, 90 ft³/s (2.55 m³/s) Jan. 4,5.
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.

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

REVISIONS (WATER YEARS).--WSP 1390: 1948(M), 1949, 1951-52(M). WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	166	166	130	162	166	164	164	160	116	109	117
2	171	162	171	100	168	171	160	164	160	111	111	123
3	166	160	166	100	164	168	158	162	160	108	110	135
4	156	166	166	90	164	162	154	164	160	106	111	137
5	164	164	164	90	166	162	156	164	160	106	111	137
6	162	166	164	100	152	162	158	160	156	104	130	140
7	171	168	164	100	175	160	162	160	150	103	123	140
8	175	162	173	110	164	160	166	160	219	104	123	138
9	182	162	173	110	160	158	162	162	282	105	130	131
10	166	164	160	100	168	152	158	166	206	109	132	131
11	175	164	164	120	171	162	164	162	209	110	130	131
12	168	162	171	130	171	166	166	154	175	109	127	134
13	148	166	162	150	166	158	160	156	171	106	121	135
14	166	162	164	170	166	156	158	152	164	106	121	137
15	168	162	164	175	168	171	158	150	152	108	120	135
16	160	162	160	180	168	160	156	156	140	107	123	134
17	164	164	166	190	173	158	158	156	140	105	120	138
18	171	162	171	192	173	162	162	158	142	105	119	146
19	171	164	158	197	166	160	160	160	142	104	118	132
20	171	164	150	197	177	158	195	173	134	104	118	132
21	175	166	155	190	162	158	171	233	135	104	117	134
22	171	156	164	182	162	164	162	162	124	102	116	134
23	168	158	158	175	168	158	162	158	123	109	115	137
24	171	158	162	173	158	160	158	160	121	145	116	135
25	162	160	173	173	162	166	164	164	120	152	118	128
26	166	160	158	177	168	168	166	175	118	132	116	127
27	166	164	160	180	171	171	166	143	117	114	115	126
28	164	164	154	173	166	173	160	126	116	112	116	121
29	166	162	152	173	------	166	162	146	116	108	118	126
30	168	166	145	175	------	158	162	209	115	108	120	124
31	168	------	140	168	------	166	------	177	------	108	116	------
TOTAL	5,188	4,886	5,018	4,670	4,659	5,040	4,868	5,056	4,587	3,430	3,690	3,975
MEAN	167	163	162	151	166	163	162	163	153	111	119	133
MAX	182	168	173	197	177	173	195	233	282	152	132	146
MIN	148	156	140	90	152	152	154	126	115	102	109	117
AC-FT	10,290	9,690	9,950	9,260	9,240	10,000	9,660	10,030	9,100	6,800	7,320	7,880

CAL YR 1973 TOTAL 56,078 MEAN 154 MAX 220 MIN 107 AC-FT 111,200
WTR YR 1974 TOTAL 55,067 MEAN 151 MAX 282 MIN 90 AC-FT 109,200

06692500 Lincoln County drain No. 1 near North Platte, Nebr.

LOCATION.--Lat 41°09'40", long 100°47'25", in NE1/4NE1/4 sec.30, T.14 N., R.30 W., Lincoln County, 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.

AVERAGE DISCHARGE.--20 years, 63.4 ft³/s (1.795 m³/s), 45,930 acre-ft/yr (56.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 253 ft³/s (7.16 m³/s) Aug. 9, gage height, 2.48 ft (0.756 m); minimum daily, 28 ft³/s (0.79 m³/s) Apr. 18.
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.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	65	45	37	39	34	31	55	99	81	91	145
2	95	62	45	38	39	33	31	63	85	79	93	119
3	92	62	45	36	39	33	31	71	81	69	103	122
4	91	61	45	36	39	33	31	70	80	69	106	137
5	89	60	45	36	39	33	30	72	76	67	116	133
6	88	60	44	36	38	33	29	72	74	70	112	133
7	85	59	44	37	38	33	29	63	76	73	115	143
8	84	58	44	39	37	33	29	73	115	81	126	141
9	81	58	43	38	37	32	29	80	145	88	208	138
10	80	57	43	38	36	31	29	89	126	88	185	131
11	84	57	43	38	36	32	29	94	122	94	161	138
12	82	56	43	38	36	32	29	95	109	82	159	138
13	82	55	42	38	36	32	29	95	107	86	153	130
14	80	53	42	38	35	32	29	104	98	98	141	125
15	79	53	42	38	35	32	29	103	95	96	138	122
16	78	53	41	38	34	32	29	83	91	93	140	119
17	77	53	41	38	34	32	29	80	92	92	145	111
18	77	53	41	38	34	31	28	95	88	91	138	109
19	78	52	40	38	34	31	40	98	85	94	130	98
20	77	52	40	38	34	31	60	92	88	90	120	103
21	76	51	40	38	34	31	56	107	79	97	121	108
22	74	50	40	38	34	31	53	101	89	103	112	105
23	74	50	40	37	34	31	51	98	109	94	111	103
24	73	49	39	37	34	32	50	101	106	93	104	98
25	71	49	39	37	33	32	47	101	104	123	99	101
26	71	48	39	38	34	32	49	113	102	122	108	106
27	70	48	39	38	34	32	57	112	98	113	114	115
28	69	46	39	38	33	32	62	108	87	123	121	125
29	68	46	39	38	------	31	66	109	84	107	124	124
30	68	45	39	38	------	31	57	124	80	96	136	122
31	66	------	38	38	------	32	------	128	------	91	141	------
TOTAL	2,456	1,621	1,289	1,166	999	992	1,178	2,849	2,870	2,843	3,971	3,642
MEAN	79.2	54.0	41.6	37.6	35.7	32.0	39.3	91.9	95.7	91.7	128	121
MAX	97	65	45	39	39	34	66	128	145	123	208	145
MIN	66	45	38	36	33	31	28	55	74	67	91	98
AC-FT	4,870	3,220	2,560	2,310	1,980	1,970	2,340	5,650	5,690	5,640	7,880	7,220

CAL YR 1973 TOTAL 26,533 MEAN 72.7 MAX 173 MIN 24 AC-FT 52,630
WTR YR 1974 TOTAL 25,876 MEAN 70.9 MAX 208 MIN 28 AC-FT 51,330

06693000 North Platte River at North Platte, Nebr.

LOCATION.--Lat 41°09'13", long 100°45'16", in sec.28, T.14 N., R.30 W., Lincoln County, 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.--34,900 mi² (90,400 km²), approximately, of which about 26,300 mi² (68,100 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--February 1895 to current year. Monthly discharge only for some periods, published in WSP 1310.

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.

EXTREMES.--Current year: Maximum discharge, 4,390 ft³/s (124 m³/s) Apr. 13, gage height, 5.31 ft (1.618 m); maximum gage height, 5.36 ft (1.634 m) Mar 16; minimum daily discharge, 273 ft³/s (7.73 m³/s) Sept. 19,20.
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.

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.

REVISIONS (WATER YEARS).--WRD Nebr. 1967: Drainage area. WSP 2118: 1915(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,520	1,630	1,410	950	1,080	1,960	4,050	2,110	355	1,710	1,670	745
2	3,310	1,600	1,410	900	1,140	1,970	4,080	1,600	326	1,670	1,640	719
3	3,200	1,570	1,430	900	1,140	1,960	4,080	1,530	312	1,630	1,700	694
4	3,130	1,600	1,410	850	1,120	1,960	4,080	1,390	303	1,660	1,800	763
5	3,090	1,630	1,390	900	1,120	1,960	4,050	1,120	286	1,710	1,860	581
6	3,070	1,640	1,410	1,000	1,090	1,920	4,080	809	286	1,740	1,940	502
7	2,980	1,640	1,360	1,000	1,100	1,940	4,100	702	290	1,820	1,710	453
8	2,660	1,620	1,330	1,050	1,160	1,940	4,150	541	408	2,000	1,490	419
9	2,630	1,620	1,300	1,100	1,210	2,490	4,150	477	969	1,970	1,710	375
10	2,660	1,620	1,260	1,050	1,150	2,630	4,150	447	1,120	1,990	1,480	350
11	2,960	1,630	1,270	1,050	1,120	2,840	4,180	413	791	2,020	1,040	340
12	3,220	1,630	1,280	1,050	1,130	3,000	4,230	375	631	2,030	809	355
13	3,150	1,600	1,300	1,000	1,150	3,150	4,230	355	508	2,020	702	345
14	2,980	1,620	1,270	1,000	1,100	3,180	4,130	345	430	2,030	638	336
15	2,920	1,600	1,210	1,000	1,090	3,630	4,130	370	386	2,030	595	321
16	2,860	1,560	1,200	1,000	1,100	4,130	4,150	355	360	2,020	702	312
17	2,880	1,560	1,210	1,100	1,140	4,130	4,050	321	340	1,970	781	303
18	2,860	1,590	1,230	1,150	1,330	4,080	3,560	326	340	1,940	791	290
19	2,800	1,590	1,000	1,200	1,560	4,000	3,310	326	350	1,940	809	273
20	2,480	1,600	950	1,250	1,670	4,000	3,420	326	331	2,020	800	273
21	2,180	1,590	900	1,250	1,940	4,080	3,260	402	295	2,100	863	286
22	2,110	1,620	1,000	1,250	1,920	4,130	3,000	375	375	2,140	854	290
23	2,100	1,620	1,050	1,300	1,940	4,130	2,920	336	567	2,210	818	286
24	2,100	1,570	1,100	1,350	1,850	4,150	2,680	331	754	2,260	809	281
25	2,130	1,550	1,150	1,400	1,820	4,180	2,610	326	809	2,550	809	277
26	2,060	1,510	1,100	1,400	1,820	4,180	2,630	345	1,130	2,530	845	277
27	2,050	1,480	1,050	1,450	1,850	4,150	2,630	336	1,480	2,180	827	295
28	2,050	1,440	1,000	1,480	1,990	4,130	2,310	317	1,590	2,080	809	299
29	2,080	1,490	1,000	1,180	------	4,080	2,190	303	1,600	2,140	836	308
30	2,060	1,480	950	1,070	------	4,050	2,210	370	1,640	2,110	854	308
31	1,760	------	950	1,130	------	4,050	------	408	------	1,820	836	------
TOTAL	82,040	47,500	36,880	34,760	38,830	102,180	106,800	18,087	19,362	62,040	33,827	11,656
MEAN	2,646	1,583	1,190	1,121	1,387	3,296	3,560	583	645	2,001	1,091	389
MAX	3,520	1,640	1,430	1,480	1,990	4,180	4,230	2,110	1,640	2,550	1,940	763
MIN	1,760	1,440	900	850	1,080	1,920	2,190	303	286	1,630	595	273
AC-FT	162,700	94,220	73,150	68,950	77,020	202,700	211,800	35,880	38,400	123,100	67,100	23,120

CAL YR 1973 TOTAL 756,344 MEAN 2,072 MAX 6,930 MIN 280 AC-FT 1,500,000
WTR YR 1974 TOTAL 593,962 MEAN 1,627 MAX 4,230 MIN 273 AC-FT 1,178,000

06762500 Lodgepole Creek at Bushnell, Nebr.

LOCATION.--Lat 41°13'43", long 103°48'03", in sec.33, T.15 N., R.57 W., Kimball County, 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.

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.

AVERAGE DISCHARGE.--43 years, 11.8 ft³/s (0.334 m³/s), 8,550 acre-ft/yr (10.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 15 ft³/s (0.42 m³/s) Nov. 28, gage height, 1.63 ft (0.497 m); maximum gage height, 2.82 ft³/s (0.080 m³/s) Dec. 24, backwater from snow; minimum daily discharge, 3.3 ft³/s (0.093 m³/s) Aug. 27, 28, 30, Sept. 1.
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, 1.2 ft³/s (0.034 m³/s) Dec. 14, 1935.

REMARKS.--Records fair. 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.

REVISIONS (WATER YEARS).--WSP 1390: 1933, 1935, 1937-38, 1941, 1948-49. WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	7.5	8.9	6.4	6.2	9.5	8.3	7.7	5.0	3.9	3.8	3.3
2	6.8	7.6	8.9	6.3	6.2	9.3	8.5	7.7	5.0	3.8	3.8	3.6
3	6.8	7.5	8.8	6.1	6.4	9.1	8.9	7.5	5.0	3.8	3.9	3.5
4	6.7	7.2	8.5	5.9	6.4	8.7	8.7	7.6	5.0	3.8	3.8	3.7
5	6.9	7.1	7.9	5.8	6.6	8.3	8.9	7.6	5.1	3.6	3.8	3.6
6	6.8	7.6	7.9	5.8	6.6	8.2	9.9	7.6	5.1	3.7	3.9	3.6
7	7.0	7.7	8.2	5.8	6.8	8.4	9.9	7.5	5.0	3.8	3.8	3.6
8	7.0	8.3	8.1	5.7	6.8	8.2	9.2	7.4	6.6	3.5	3.9	3.4
9	7.3	8.2	8.0	5.6	6.8	8.0	9.2	7.4	8.5	3.5	4.3	3.4
10	7.3	8.2	8.1	5.6	7.0	8.0	9.2	7.4	7.1	3.5	4.2	3.6
11	7.8	7.8	7.9	5.5	7.0	8.2	9.4	7.1	7.1	3.6	4.2	3.6
12	7.9	8.0	7.6	5.4	7.2	8.0	9.5	7.1	6.8	4.5	4.2	4.0
13	7.8	7.8	7.6	5.4	7.2	8.5	9.6	7.0	6.5	4.6	4.2	4.0
14	7.7	7.8	7.4	5.5	7.2	8.7	9.3	6.6	6.3	4.2	4.3	4.0
15	7.9	7.6	7.1	5.9	7.2	8.5	8.9	6.7	6.1	4.0	4.2	4.1
16	8.0	7.8	7.5	6.3	7.4	8.4	8.8	6.6	5.6	3.9	4.1	4.1
17	7.8	8.2	7.4	6.5	7.6	8.9	8.6	6.4	5.5	4.0	3.9	4.1
18	7.9	8.2	7.5	7.4	7.8	9.6	8.3	6.5	5.5	3.9	3.9	4.3
19	7.9	8.2	7.4	7.4	8.0	8.8	8.3	6.3	5.4	3.8	3.8	4.3
20	7.8	7.8	6.8	7.0	8.6	8.5	8.0	6.1	5.2	3.8	3.6	4.4
21	7.8	8.2	7.0	6.9	8.1	8.5	7.8	6.1	5.1	3.6	3.6	4.5
22	7.9	8.3	7.1	6.4	8.6	8.5	7.9	6.1	5.0	3.6	3.4	4.5
23	7.8	8.6	6.9	6.3	7.5	8.4	7.9	5.8	4.9	3.6	3.6	4.5
24	7.6	8.6	6.0	6.3	8.4	8.5	8.0	5.9	4.7	3.7	3.4	4.6
25	7.4	8.8	6.0	6.2	8.5	8.8	8.1	5.6	4.4	3.6	3.4	4.6
26	7.5	8.9	5.5	6.3	8.9	9.0	8.0	5.6	4.3	3.6	3.4	4.6
27	7.4	8.8	6.3	6.0	9.6	9.0	7.9	5.4	4.2	3.7	3.3	4.6
28	7.5	9.1	6.4	6.0	9.5	8.7	7.6	5.2	4.1	3.6	3.3	4.7
29	7.5	8.8	6.3	5.9	------	8.4	7.7	5.2	3.9	3.9	3.4	4.6
30	7.3	9.1	6.4	6.0	------	8.3	7.7	5.2	3.9	3.9	3.3	4.7
31	7.4	------	6.4	6.2	------	8.4	------	5.0	------	3.8	3.4	------
TOTAL	231.3	243.3	227.8	189.8	210.1	266.3	258.0	202.9	161.9	117.8	117.1	122.1
MEAN	7.46	8.11	7.35	6.12	7.50	8.59	8.60	6.55	5.40	3.80	3.78	4.07
MAX	8.0	9.1	8.9	7.4	9.6	9.6	9.9	7.7	8.5	4.6	4.3	4.7
MIN	6.7	7.1	5.5	5.4	6.2	8.0	7.6	5.0	3.9	3.5	3.3	3.3
AC-FT	459	483	452	376	417	528	512	402	321	234	232	242

CAL YR 1973 TOTAL 2,938.3 MEAN 8.05 MAX 20 MIN 2.0 AC-FT 5,830
WTR YR 1974 TOTAL 2,348.4 MEAN 6.43 MAX 9.9 MIN 3.3 AC-FT 4,660

06763500 Lodgepole Creek at Ralton, Nebr.

LOCATION.--Lat 41°02'00", long 102°24'00", in NE1/4NW1/4 sec.12, T.12 N., R.45 W., Deuel County, 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.

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.

AVERAGE DISCHARGE.--23 years (1951-74), 10.1 ft³/s (0.286 m³/s), 7,320 acre-ft/yr (9.03 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 15 ft³/s (0.42 m³/s) June 9, gage height, 1.72 ft (0.524 m); maximum gage height, 3.17 ft (0.966 m) Feb. 11, backwater from ice; no flow for many days.
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, 1973-74.

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. Diversion for irrigation of about 24,300 acres (98.3 km²) above station.

REVISIONS.--WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	.91	1.7	.28	1.8	2.6	3.7	3.5	2.6	.35		
2	.50	1.0	1.7	.26	1.8	2.3	3.5	3.7	2.4	0		
3	.55	1.2	1.6	.24	1.9	2.3	3.5	8.1	1.7	0		
4	.55	1.3	1.6	.22	1.8	2.2	3.7	5.6	.71	0		
5	.55	1.2	1.6	.20	1.5	2.3	3.2	5.1	1.9	0		
6	.60	1.2	1.5	.20	1.4	2.2	3.5	4.8	1.4	0		
7	.55	1.2	1.5	.18	1.6	2.2	4.0	4.6	1.0	0		
8	.50	1.2	1.6	.18	1.7	2.2	3.2	4.6	2.0	0		
9	.60	1.2	1.6	.18	1.9	2.2	4.5	4.6	9.5	0		
10	.66	1.2	1.5	.18	2.0	2.2	3.7	5.8	1.7	0		
11	1.1	1.3	1.6	.18	2.0	3.2	3.7	4.8	1.1	0		
12	1.4	1.3	1.8	.18	2.1	2.7	3.8	4.6	.93	0		
13	1.2	1.3	2.0	.18	2.1	2.7	3.4	4.5	.01	0		
14	1.0	1.3	1.7	.18	2.5	2.6	4.0	4.3	0	0		
15	.84	1.3	1.3	.18	2.4	2.4	4.2	4.3	0	0		
16	.84	1.3	1.2	.25	2.2	2.6	4.2	4.2	0	0		
17	.91	1.6	1.0	.30	2.3	2.9	3.8	4.2	0	0		
18	.78	1.7	.80	.40	2.2	2.7	3.5	4.3	0	0		
19	.78	1.9	.30	.50	2.3	3.0	3.8	4.3	0	0		
20	.78	1.0	0	.60	2.7	3.2	4.0	4.3	0	0		
21	.84	0	.20	.60	3.0	4.2	4.0	4.0	0	0		
22	.71	.20	.25	.50	3.7	3.4	3.5	4.0	.07	0		
23	.78	.20	.25	.50	3.8	3.4	3.5	4.3	.09	0		
24	.78	.30	.30	.70	6.4	3.7	3.5	4.3	0	0		
25	.91	.80	.30	.80	5.8	3.2	3.4	4.2	0	0		
26	1.0	1.3	.28	1.0	2.7	3.5	3.4	4.0	0	0		
27	.91	1.3	.26	1.2	2.7	3.4	3.8	3.4	0	0		
28	1.0	1.4	.26	1.3	2.4	3.2	3.4	3.2	0	0		
29	.91	1.5	.28	1.5	------	3.0	3.2	3.0	0	0		
30	.91	1.6	.28	1.6	------	3.4	3.4	2.7	.71	0		
31	.91	------	.30	1.8	------	3.7	------	2.6	------	0		------
TOTAL	24.90	34.21	30.56	16.57	70.7	88.8	110.0	133.9	27.82	.35	0	0
MEAN	.80	1.14	.99	.53	2.53	2.86	3.67	4.32	.93	.011	0	0
MAX	1.4	1.9	2.0	1.8	6.4	4.2	4.5	8.1	9.5	.35	0	0
MIN	.50	0	0	.18	1.4	2.2	3.2	2.6	0	0	0	0
AC-FT	49	68	61	33	140	176	218	266	55	.7	0	0

CAL YR 1973 TOTAL 1,312.20 MEAN 3.60 MAX 22 MIN 0 AC-FT 2,600
WTR YR 1974 TOTAL 537.81 MEAN 1.47 MAX 9.5 MIN 0 AC-FT 1,070

06764000 South Platte River at Julesburg, Colo.

LOCATION.--Lat 40°58'46", long102°15'15", in NW1/4NE1/4 and SE1/4NE 1/4 (two channels) sec.33, T.12 N., R.44 W., Sedgwick County, 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.

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.

AVERAGE DISCHARGE.--72 years, 487 ft³/s (13.79 m³/s), 352,800 acre-ft/yr (0.435 km³/yr).

EXTREMES.--Current year: Maximum discharge, 2,100 ft (640 m)³/s Jan. 24; gage height , 5.25 ft (1.600 m); minimum daily, 22 ft (6.7 m)³/s July 26, Aug. 11.
Period of record: Maximum discharge, 37,600 ft (11,460 m)³/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.

REMARKS.--Records fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, groundwater withdrawals and diversions for irrigation of 1,200,000 acres (4,850 km²) above station, and return flow from irrigated areas. Water quality records for the water year 1974 are published in Part 2 of this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1902, 1906-7, 1948(p). WSP 1440: 1903-4. WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,290	1,190	998	917	1,410	1,020	768	369	30	30	27	25
2	1,410	1,180	911	742	1,340	1,030	740	308	32	33	26	26
3	1,640	1,210	853	730	1,270	1,030	802	397	32	28	26	27
4	1,570	1,130	818	710	1,170	1,010	820	528	29	26	25	43
5	1,520	1,040	748	700	1,100	1,000	877	550	30	26	25	85
6	1,480	1,000	689	670	1,040	1,020	933	480	24	26	25	172
7	1,430	976	649	640	1,020	1,160	1,100	374	32	26	28	268
8	1,410	940	642	620	1,010	1,260	1,210	251	66	25	27	403
9	1,370	917	629	600	1,000	1,240	1,250	192	194	26	24	359
10	1,360	895	617	690	997	1,180	1,280	143	163	27	24	308
11	1,420	884	612	820	987	1,200	1,280	115	178	28	22	252
12	1,500	886	601	930	979	1,220	1,300	103	746	26	23	222
13	1,560	875	590	1,070	984	1,270	1,270	89	1,170	25	27	193
14	1,580	863	576	1,140	1,010	1,340	1,240	76	682	26	31	171
15	1,560	820	549	1,160	1,010	1,390	1,280	66	394	31	39	162
16	1,560	815	525	1,360	1,010	1,320	1,250	57	258	36	42	162
17	1,530	815	513	1,420	1,040	1,220	1,400	52	172	39	40	177
18	1,500	813	516	1,490	1,080	1,040	1,560	45	128	36	38	197
19	1,460	815	254	1,570	1,080	898	1,580	40	109	30	35	190
20	1,400	806	256	1,680	1,140	839	1,620	40	82	29	28	200
21	1,370	797	324	1,600	1,140	783	1,620	36	59	27	29	233
22	1,310	910	419	1,720	1,140	755	1,660	38	50	27	30	261
23	1,300	1,060	499	1,910	1,160	811	1,550	36	45	25	26	269
24	1,280	1,090	633	2,000	1,160	872	1,380	34	38	28	24	262
25	1,280	1,080	659	1,840	1,140	919	1,230	38	32	23	24	255
26	1,240	1,070	726	1,770	1,100	857	1,090	38	33	22	23	239
27	1,230	1,050	783	1,710	1,050	746	955	43	31	24	24	229
28	1,210	1,040	856	1,690	1,030	835	762	36	32	25	24	224
29	1,230	1,050	826	1,660	------	792	609	34	33	27	25	210
30	1,220	1,040	927	1,570	------	726	453	35	31	28	25	186
31	1,200	------	989	1,480	------	769	------	33	------	27	23	------
TOTAL	43,420	29,057	20,187	38,609	30,597	31,552	34,869	4,676	4,935	862	859	6,010
MEAN	1,401	969	651	1,245	1,093	1,018	1,162	151	165	27.8	27.7	200
MAX	1,640	1,210	998	2,000	1,410	1,390	1,660	550	1,170	39	42	403
MIN	1,200	797	254	600	979	726	453	33	24	22	22	25
AC-FT	86,120	57,630	40,040	76,580	60,690	62,580	69,160	9,270	9,790	1,710	1,700	11,920

CAL YR 1973 TOTAL 630,097.00 MEAN 1,726 MAX 18,100 MIN 0 AC-FT 1,250,000
WTR YR 1974 TOTAL 245,633.00 MEAN 673 MAX 2,000 MIN 22 AC-FT 487,200

06765500 South Platte River at North Platte, Nebr.

LOCATION.--Lat 41°07'05", long 100°46'22", in NE1/4NE1/4 sec.8, T.13 N., R.30 W., Lincoln County, 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.

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.

EXTREMES.--Current year: Maximum discharge, 1,800 ft³/s (51.0 m³/s) Jan. 26, gage height, 7.92 ft (2.414 m); maximum gage height, 7.99 ft (2.435 m) Jan. 24, backwater from ice; minimum daily discharge, 100 ft³/s (2.83 m³/s) Aug. 1.
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.

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. South Platte canal diverts around station; diversion began Nov. 13, 1946.

REVISIONS (WATER YEARS).--WSP 1390: 1932-33, 1935.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,440	857	569	140	1,330	902	563	597	209	152	108	171
2	1,370	852	491	145	1,410	864	630	514	212	146	113	170
3	1,290	911	425	145	1,430	880	591	424	216	148	124	170
4	1,330	865	385	160	1,310	902	465	375	217	148	136	168
5	1,440	893	360	160	1,300	854	465	302	197	147	152	154
6	1,420	909	302	170	1,170	871	522	350	191	149	155	137
7	1,320	841	267	170	706	906	633	361	188	139	175	142
8	1,250	763	305	170	611	947	789	362	269	136	202	144
9	1,250	688	384	190	495	975	867	306	425	143	255	141
10	1,210	631	335	190	452	1,010	901	260	440	138	217	140
11	1,250	578	292	190	575	1,020	970	225	440	147	186	138
12	1,360	568	260	200	725	979	1,080	214	349	143	176	144
13	1,300	541	285	300	910	1,040	1,090	201	301	143	176	157
14	1,270	551	276	500	924	986	1,050	188	279	138	189	197
15	1,310	540	251	700	798	1,060	1,060	188	374	135	176	213
16	1,260	505	242	750	852	1,090	1,110	179	368	133	176	193
17	1,240	475	223	800	734	1,090	1,090	194	299	125	179	180
18	1,270	465	200	800	619	1,090	1,150	197	238	121	171	180
19	1,330	455	150	900	626	1,080	1,250	194	195	118	173	184
20	1,270	445	115	950	662	1,060	1,350	196	198	118	151	171
21	1,220	371	120	1,020	663	910	1,370	218	200	121	135	169
22	1,160	320	120	1,050	728	849	1,500	227	185	125	127	170
23	1,170	465	115	1,200	725	807	1,610	222	180	122	127	162
24	1,170	551	115	1,450	782	803	1,540	203	170	129	131	161
25	1,130	574	120	1,670	1,010	750	1,350	204	160	162	140	171
26	1,040	646	125	1,770	1,070	828	1,190	251	145	143	139	166
27	1,060	633	120	1,750	1,010	838	1,110	249	146	122	131	151
28	1,030	608	130	1,560	937	767	1,070	215	162	137	134	146
29	1,020	646	130	1,400	------	677	940	217	151	148	144	153
30	967	597	140	1,320	------	686	750	234	141	132	168	149
31	918	------	140	1,350	------	636	------	230	------	112	168	------
TOTAL	38,065	18,744	7,492	23,270	24,564	28,157	30,056	8,297	7,245	4,220	4,934	4,892
MEAN	1,228	625	242	751	877	908	1,002	268	242	136	159	163
MAX	1,440	911	569	1,770	1,430	1,090	1,610	597	440	162	255	213
MIN	918	320	115	140	452	636	465	179	141	112	108	137
AC-FT	75,500	37,180	14,860	46,160	48,720	55,850	59,620	16,460	14,370	8,370	9,790	9,700

CAL YR 1973 TOTAL 516,817 MEAN 1,416 MAX 16,600 MIN 90 AC-FT 1,025,000
WTR YR 1974 TOTAL 199,936 MEAN 548 MAX 1,770 MIN 108 AC-FT 396,600

06766000 Platte River at Brady, Nebr.

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, 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.--60,200 mi² (155,900 km²), approximately, of which about 51,400 mi² (133,100 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--May to September 1937, May 1938 to current year. Monthly discharge only for some periods, published in WSP 1310.

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.

EXTREMES.--Current year: Maximum discharge, 6,350 ft³/s (180 m³/s) Mar. 21; minimum daily, 120 ft³/s (3.40 m³/s) Sept. 27-29.
Period of record: Maximum discharge, 18,600 ft³/s (527 m³/s) May 14, 1973; no flow Aug. 22-24, 1941.

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.

REVISIONS (WATER YEARS).--WSP 1390: 1941(M). WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,940	2,170	1,860	1,980	2,850	2,680	4,930	2,950	161	1,080	1,420	284
2	4,610	2,100	1,740	2,040	2,490	2,690	4,950	2,450	158	1,190	1,360	234
3	4,360	2,040	1,670	1,760	2,380	2,730	4,990	2,000	157	1,170	1,340	208
4	4,330	2,030	1,430	1,730	2,310	3,110	5,030	1,820	154	1,230	1,260	175
5	4,410	2,060	1,300	1,740	2,260	3,330	4,990	1,550	154	1,320	1,280	160
6	4,450	2,090	1,230	1,740	2,200	3,390	4,810	1,220	155	1,390	1,140	154
7	4,390	2,070	1,210	1,790	2,100	3,360	5,030	1,010	154	1,420	1,060	148
8	4,020	2,060	1,110	1,750	2,000	3,120	5,110	846	213	1,520	913	141
9	3,740	2,010	1,110	1,850	1,890	3,390	5,210	677	491	1,690	881	137
10	3,620	1,990	1,050	1,950	1,750	4,050	5,340	592	880	1,730	940	132
11	3,870	1,960	1,020	1,950	1,570	4,390	5,660	586	802	1,690	627	129
12	4,290	1,930	1,010	1,960	1,560	4,910	5,830	421	451	1,700	348	147
13	4,300	1,890	993	1,960	1,720	5,010	5,730	336	336	1,750	262	151
14	4,090	1,870	1,000	1,970	1,860	5,090	5,580	302	271	1,730	289	140
15	3,870	1,790	922	2,030	1,870	5,230	5,470	276	234	1,720	330	135
16	3,760	1,740	864	2,090	1,910	5,660	5,460	260	213	1,730	379	135
17	3,710	1,660	841	2,120	1,820	5,900	5,440	240	206	1,790	510	129
18	3,700	1,620	797	2,180	1,840	6,000	5,100	227	204	1,610	549	127
19	4,020	1,630	490	2,240	1,990	6,080	4,560	213	195	1,560	550	125
20	3,940	1,700	542	2,340	2,100	6,160	4,590	205	188	1,580	927	127
21	3,590	1,600	686	2,230	2,290	6,240	4,620	266	175	1,640	911	141
22	3,370	1,610	787	2,620	2,370	6,240	4,460	239	165	1,700	801	135
23	3,300	1,660	886	2,710	2,480	6,160	4,350	213	164	1,740	682	130
24	3,240	1,770	1,060	2,610	2,630	6,080	4,230	197	176	1,800	663	125
25	3,170	1,790	1,160	2,610	2,450	5,970	4,130	190	305	1,910	651	124
26	3,240	1,920	1,280	2,710	2,050	6,000	4,050	191	523	1,970	606	123
27	3,170	1,920	1,280	2,700	1,870	6,100	3,980	180	747	1,900	608	120
28	2,960	2,050	1,380	2,700	2,540	6,030	3,650	172	863	1,870	575	120
29	2,840	2,030	1,480	2,700	------	5,750	3,250	170	941	1,780	446	120
30	2,310	1,990	1,580	2,700	------	5,560	3,040	165	964	1,710	414	121
31	2,220	------	1,780	2,610	------	5,280	------	162	------	1,590	351	------
TOTAL	115,830	56,750	35,548	68,070	59,150	151,690	143,570	20,326	10,800	50,210	23,073	4,377
MEAN	3,736	1,892	1,147	2,196	2,113	4,893	4,786	656	360	1,620	744	146
MAX	4,940	2,170	1,860	2,710	2,850	6,240	5,830	2,950	964	1,970	1,420	284
MIN	2,220	1,600	490	1,730	1,560	2,680	3,040	162	154	1,080	262	120
AC-FT	229,700	112,600	70,510	135,000	117,300	300,900	284,800	40,320	21,420	99,590	45,770	8,680

CAL YR 1973 TOTAL 1,144,544 MEAN 3,136 MAX 18,000 MIN 256 AC-FT 2,270,000
WTR YR 1974 TOTAL 739,394 MEAN 2,026 MAX 6,240 MIN 120 AC-FT 1,467,000

06766500 Platte River near Cozad, Nebr.

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, on downstream side of highway bridges, 1.5 mi (2.4 km) south of Cozad.

DRAINAGE AREA.--60,500 mi² (156,700 km²), approximately, of which about 51,700 mi² (133,900 km²) contributes directly to surface runoff.

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.

GAGE.--Two water-stage recorders. Datum of gage on south channel is 2,473.07 ft (753.792 m) and on north channel, 2,476.72 ft (754.904 m) above mean sea level (Nebraska Department of Roads bench mark). See WSP 2118 for history of changes prior to May 10, 1966.

EXTREMES.--Current year: Maximum discharge, 6,320 ft³/s (179 m³/s) Mar. 20; minimum daily, 46 ft³/s (1.30 m³/s) Aug. 16, 17.
Period of record: Maximum discharge, 18,400 ft³/s (521 m³/s) May 29, 1973; no flow at times in 1937-40.

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.

REVISIONS.--WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,100	2,220	1,890	1,280	3,080	3,170	5,170	3,010	62	163	457	267
2	4,890	2,170	1,800	1,300	3,050	3,260	5,000	2,780	58	143	323	257
3	4,840	2,100	1,760	1,340	3,080	3,250	5,000	2,290	58	123	328	261
4	4,630	2,120	1,700	1,440	3,010	3,320	4,970	2,080	56	92	318	239
5	4,500	2,140	1,550	1,600	2,890	3,640	5,060	1,930	55	74	453	204
6	4,570	2,210	1,460	1,740	2,630	3,760	5,040	1,530	56	55	553	188
7	4,580	2,160	1,500	1,880	2,950	3,780	4,900	1,220	56	56	425	158
8	4,380	2,120	1,380	2,020	2,730	3,680	5,030	1,000	143	55	363	138
9	4,210	2,090	1,320	2,180	2,500	3,460	5,180	871	358	112	315	117
10	4,030	2,060	1,280	2,180	2,300	3,870	5,370	746	572	178	307	101
11	4,140	2,000	1,200	2,180	2,080	4,290	5,740	671	820	161	307	87
12	4,250	1,950	1,160	2,140	2,000	4,520	5,950	610	673	112	89	87
13	4,300	1,880	1,130	2,160	2,030	4,770	5,960	493	407	122	74	94
14	4,240	1,850	1,140	2,200	2,130	4,880	5,870	391	281	143	58	94
15	4,230	1,800	1,110	2,260	2,190	5,080	5,800	356	225	113	47	89
16	4,010	1,730	1,060	2,390	2,200	5,320	5,690	313	199	143	46	81
17	3,930	1,720	1,020	2,500	2,200	5,850	5,750	282	87	143	46	67
18	3,910	1,660	1,030	2,610	2,150	6,060	5,600	248	82	208	103	55
19	3,910	1,650	918	2,680	2,210	6,150	5,270	213	81	210	86	53
20	4,160	1,720	850	2,830	2,420	6,250	4,880	186	79	179	86	53
21	3,970	1,740	780	3,000	2,550	6,190	4,910	190	76	182	219	53
22	3,690	1,610	780	3,080	2,810	6,120	4,820	166	73	236	216	63
23	3,540	1,560	780	3,110	2,880	6,160	4,620	106	69	293	183	74
24	3,430	1,650	820	3,110	2,970	6,160	4,470	103	65	348	159	73
25	3,330	1,700	900	3,100	3,230	6,080	4,280	103	63	448	159	73
26	3,390	1,750	900	3,210	2,730	6,110	4,130	100	60	464	183	72
27	3,220	1,820	920	3,440	2,470	6,170	3,940	90	119	588	185	83
28	3,160	1,850	1,020	3,530	2,630	6,270	3,780	83	153	722	171	97
29	3,090	1,950	1,140	3,360	------	6,050	3,430	69	166	623	163	106
30	2,950	1,940	1,180	3,330	------	5,670	3,160	66	177	570	178	119
31	2,460	------	1,240	3,220	------	5,580	------	64	------	526	197	------
TOTAL	123,040	56,920	36,718	76,400	72,100	154,920	148,770	22,360	5,429	7,585	6,797	3,503
MEAN	3,969	1,897	1,184	2,465	2,575	4,997	4,959	721	181	245	219	117
MAX	5,100	2,220	1,890	3,530	3,230	6,270	5,960	3,010	820	722	553	267
MIN	2,460	1,560	780	1,280	2,000	3,170	3,160	64	55	55	46	53
AC-FT	244,000	112,900	72,830	151,500	143,000	307,300	295,100	44,350	10,770	15,040	13,480	6,950

CAL YR 1973 TOTAL 1,112,468 MEAN 3,048 MAX 18,200 MIN 97 AC-FT 2,207,000
WTR YR 1974 TOTAL 714,542 MEAN 1,958 MAX 6,270 MIN 46 AC-FT 1,417,000

06767500 Plum Creek near Smithfield, Nebr.

LOCATION.--Lat 40°39'40", long 99°42'00", in NW1/4SW1/4 sec.15, T.8 N., R.21 W., Gosper County, on left bank just downstream from county highway bridge, 6.5 mi (10.5 km) northeast of Smithfield.

DRAINAGE AREA.--229 mi² (593 km²).

PERIOD OF RECORD.--June 1946 to September 1953, and annual maximum, water years 1954-68, October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,385 ft (726.9 m), from topographic map. Prior to July 5, 1955, at site 100 ft (30 m) downstream at datum 4.78 ft (1.457 m) higher. Sept. 26, 1955, to June 13, 1958, crest-stage gage at present site at datum 0.39 ft (0.119 m) lower, and June 13, 1958, to Sept. 30, 1968, at present site and datum.

AVERAGE DISCHARGE.--13 years (1946-53, 1968-74), 6.80 ft³/s (0.193 m³/s), 4,930 acre-ft/yr (6.08 hm³/yr); median of yearly mean discharges, 2.4 ft³/s (0.0679 m³/s), 1,700 acre-ft/yr (2.10 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 15 ft³/s (0.42 m³/s) June 12, gage height, 10.85 ft (3.307 m); no flow for many days.
Period of record: Maximum discharge, 2,800 ft³/s (79.3 m³/s) June 23, 1947, gage height, 23.41 ft (7.135 m), present datum; no flow for long periods most years.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	0	.12	0	.28	.36	.20	.07	.29	.13	1.3	0
2	1.1	0	.13	0	.26	.35	.20	.08	.16	.01	1.4	0
3	1.2	0	.14	0	.24	.35	.20	.08	.33	0	1.1	0
4	.70	0	.15	0	.20	.35	.20	.06	.29	.19	.78	0
5	.49	0	.15	0	.15	.35	.24	.10	.16	.21	1.3	0
6	.19	0	.15	0	.09	.35	.30	.06	.10	.04	1.5	.14
7	.17	0	.16	0	.09	.35	.40	.06	.10	.01	2.0	.07
8	.15	0	.19	0	.10	.35	.50	.08	.74	.10	1.6	.01
9	.14	0	.20	0	.10	.35	.60	.04	7.9	.41	1.3	0
10	.13	0	.18	0	.11	.35	.80	.10	5.0	1.2	1.1	0
11	.12	0	.17	0	.15	.34	1.0	.25	9.7	1.5	.57	0
12	.12	0	.17	0	.20	.34	1.1	.29	11	.78	.45	0
13	.11	0	.17	0	.25	.34	1.2	.33	13	.41	.16	0
14	.11	0	.17	.01	.30	.34	1.2	.41	7.2	.29	.45	0
15	.10	0	.16	.02	.35	.34	1.1	.41	4.1	.53	.37	0
16	.10	0	.15	.03	.40	.33	1.0	.21	2.2	.19	.74	0
17	.10	0	.14	.04	.45	.33	.85	.08	1.3	.53	1.2	0
18	.09	0	.08	.05	.50	.33	.75	0	.83	1.0	.96	0
19	.04	0	.05	.06	.50	.33	.70	0	.49	.37	.70	0
20	.01	0	.01	.07	.50	.33	.90	.01	.33	.13	.33	0
21	0	0	0	.09	.56	.30	.95	.02	.25	0	.16	0
22	0	0	0	.10	.50	.25	.80	.02	.16	0	.01	0
23	0	0	0	.11	.47	.15	.60	0	.10	0	.02	0
24	0	0	0	.14	.45	.10	.30	0	.53	0	0	0
25	0	0	0	.17	.42	.10	.15	0	.21	0	.05	0
26	0	.02	0	.20	.40	.10	.06	0	.04	0	0	0
27	0	.04	0	.25	.40	.11	.05	0	.21	0	0	0
28	0	.06	0	.25	.38	.12	.04	0	.29	.04	0	0
29	0	.09	0	.30	------	.15	.05	0	.11	.21	0	0
30	0	.11	0	.30	------	.18	.06	.15	.04	.53	0	0
31	0	------	0	.28	------	.20	------	.70	------	.92	0	------
TOTAL	6.47	.32	2.84	2.47	8.80	8.62	16.50	3.61	67.16	9.73	19.55	.22
MEAN	.21	.011	.092	.080	.31	.28	.55	.12	2.24	.31	.63	.007
MAX	1.3	.11	.20	.30	.56	.36	1.2	.70	13	1.5	2.0	.14
MIN	0	0	0	0	.09	.10	.04	0	.04	0	0	0
AC-FT	13	.6	5.6	4.9	17	17	33	7.2	133	19	39	.4

CAL YR 1973 TOTAL 643.20 MEAN 1.76 MAX 207 MIN 0 AC-FT 1,280
WTR YR 1974 TOTAL 146.29 MEAN .40 MAX 13 MIN 0 AC-FT 290

PEAK DISCHARGE (BASE, 120 FT³/S).--No peak above base.

NOTE.--No gage-height record Oct. 7 to May 1.

06768000 Platte River near Overton, Nebr.

LOCATION.--Lat 40°40'57", long 99°32'24" (north channel), and lat 40°40'48", long 99°32'23" (south channel), in sec.12, T.8 N., R.20 W., Dawson-Phelps County line, on left and right banks, respectively, just downstream from highway bridges, 4 mi (6 km) south of Overton and 4 mi (6 km) downstream from Plum Creek.

DRAINAGE AREA.--61,700 mi² (159,800 km²), approximately, of which about 52,900 mi² (137,000 km²) contributes directly to surface runoff.

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.

GAGE.--Two water-stage recorders. Datum of gage on north channel is 2,298.83 ft (700.683 m) and on south channel 2,299.83 ft (700.988 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 present site (south channel only) at datum 2 ft (0.6 m) higher. Sept. 13, 1928, to Sept. 30, 1930, nonrecording gage and Oct. 1, 1930, to Sept. 30, 1968, water-stage recorder, at present site (south channel only) and datum. North channel gage in use at present site at datum 1.0 ft (0.30 m) higher Oct. 1, 1968 to July 10, 1974.

EXTREMES.--Current year: Maximum discharge, 8,810 ft³/s (249 m³/s) Mar. 21, gage height, 3.85 ft (1.173 m), north channel, datum then in use; maximum gage height, 6.36 ft (1.939 m) Jan. 9, backwater from ice, south channel; minimum daily discharge, 190 ft³/s (5.38 m³/s) July 14.
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.

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. Records of chemical analyses and water temperatures for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,350	4,210	4,420	3,120	4,970	4,610	7,360	4,520	578	395	722	633
2	7,980	4,070	4,260	2,910	5,040	4,930	7,190	4,470	445	317	603	721
3	7,580	4,020	4,130	2,950	5,100	4,780	7,310	4,180	447	242	500	829
4	7,040	4,040	4,080	3,070	5,170	4,850	7,210	3,790	391	251	462	955
5	5,440	4,070	3,930	3,000	5,100	4,880	7,180	3,690	346	239	543	1,060
6	6,690	4,020	3,760	2,900	4,320	4,900	7,110	3,650	377	243	679	1,030
7	6,730	4,020	3,710	2,600	4,800	5,310	6,850	3,280	439	241	688	956
8	6,630	3,930	3,700	2,600	4,490	5,170	6,760	2,970	473	197	644	971
9	6,580	3,810	3,640	2,700	4,100	5,120	6,980	2,650	865	195	820	1,010
10	6,260	3,750	3,640	2,750	3,820	5,010	7,190	2,410	1,210	218	876	942
11	6,290	3,730	3,600	2,840	4,060	5,790	7,530	2,280	2,140	233	1,140	882
12	6,360	3,770	3,550	2,740	3,740	6,070	7,760	2,060	2,400	224	1,030	1,070
13	6,540	3,790	3,540	2,500	3,990	6,280	7,810	1,960	2,120	192	731	925
14	6,720	3,830	3,520	2,500	4,170	6,470	7,940	1,680	1,840	190	367	839
15	6,550	3,810	3,440	2,800	4,190	6,650	7,960	1,570	1,550	214	258	793
16	6,260	3,890	3,360	3,000	4,420	6,870	7,890	1,470	1,410	213	243	780
17	6,220	3,880	3,290	3,370	4,530	7,200	7,830	1,400	1,360	212	237	783
18	6,150	3,900	3,290	3,330	4,490	7,780	7,040	1,370	799	232	253	756
19	6,090	3,780	3,090	3,980	4,300	7,970	7,550	1,520	654	313	278	780
20	6,410	3,820	2,880	4,120	4,400	8,130	7,150	1,470	519	306	269	795
21	6,530	3,810	2,680	4,200	4,550	8,130	6,750	1,360	461	276	259	856
22	6,350	3,990	2,790	4,110	4,590	7,960	6,760	1,250	391	285	332	899
23	6,100	3,980	3,240	3,960	4,690	7,690	6,840	1,170	374	304	343	908
24	5,950	4,000	3,430	4,000	4,570	7,660	6,830	858	337	366	300	910
25	5,860	4,040	3,090	4,260	4,820	7,630	5,880	1,080	246	431	269	925
26	5,790	4,110	3,010	4,420	4,850	7,540	6,000	1,000	257	473	266	1,020
27	5,830	4,200	2,960	4,540	4,400	7,390	5,760	872	253	528	295	1,160
28	5,830	4,270	3,110	4,690	4,150	7,440	5,750	1,010	279	656	343	1,090
29	5,690	4,360	3,190	4,730	------	7,580	5,230	871	334	765	308	1,050
30	5,020	4,450	3,090	4,910	------	7,550	5,160	830	375	716	324	1,240
31	4,400	------	3,370	5,150	------	7,470	------	728	------	689	520	------
TOTAL	196,220	119,350	106,790	108,750	125,820	202,810	208,560	63,419	23,670	10,356	14,902	27,568
MEAN	6,330	3,978	3,445	3,508	4,494	6,542	6,952	2,046	789	334	481	919
MAX	8,350	4,450	4,420	5,150	5,170	8,130	7,960	4,520	2,400	765	1,140	1,240
MIN	4,400	3,730	2,680	2,500	3,740	4,610	5,160	728	246	190	237	633
AC-FT	389,200	236,700	211,800	215,700	249,600	402,300	413,700	125,800	46,950	20,540	29,560	54,680

CAL YR 1973 TOTAL 1,655,017 MEAN 4,534 MAX 18,800 MIN 264 AC-FT 3,283,000
WTR YR 1974 TOTAL 1,208,215 MEAN 3,310 MAX 8,350 MIN 190 AC-FT 2,396,000

06770000 Platte River near Odessa, Nebr.

LOCATION.--Lat 40°39'55", long 99°15'20", in E1/2 sec.16, T.8 N., R.17 W., Buffalo-Phelps County line, 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.--62,100 mi² (160,800 km²), approximately, of which about 53,300 mi² (138,000 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--March 1937 to current year. Monthly discharge only for some periods, published in WSP 1310.

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.

EXTREMES.--Current year: Maximum discharge, 8,980 ft³/s (254 m³/s) Mar. 22, gage height, 4.04 ft (1.231 m); maximum gage height, 5.22 ft (1.591 m) Dec. 28, backwater from ice; minimum daily discharge, 22 ft³/s (0.62 m³/s) July 8.
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.

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.

REVISIONS.--WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,800	4,220	4,180	2,400	5,170	4,360	7,230	4,570	678	212	390	285
2	7,610	4,090	4,150	2,400	5,010	4,740	7,230	4,060	470	212	410	360
3	7,290	3,960	4,090	2,500	4,850	4,850	7,610	4,030	350	184	340	446
4	6,810	3,900	4,060	2,500	4,710	4,710	7,540	3,500	350	92	340	542
5	6,480	3,900	4,030	2,600	4,850	4,680	7,540	3,210	285	71	340	664
6	6,420	3,750	3,780	2,600	4,060	4,680	7,610	2,990	310	44	400	748
7	6,480	3,680	3,720	2,600	4,320	4,850	7,480	2,770	310	27	542	734
8	6,360	3,650	3,810	2,700	4,460	4,970	7,110	2,480	458	22	602	776
9	6,260	3,620	3,750	2,700	4,060	4,850	7,230	2,230	1,190	30	566	762
10	6,050	3,620	3,650	2,800	3,680	4,780	7,110	2,040	1,560	30	650	650
11	6,150	3,620	3,680	2,800	3,810	5,250	7,290	1,970	2,000	24	748	590
12	6,260	3,650	3,680	2,900	3,530	5,610	7,480	1,630	2,180	24	822	650
13	6,580	3,620	3,560	2,900	3,680	5,800	7,610	1,490	2,090	24	790	776
14	6,700	3,650	3,530	3,000	3,870	6,260	7,680	1,340	1,810	24	506	790
15	6,480	3,560	3,420	3,200	3,930	6,580	7,350	1,200	1,470	41	184	706
16	6,360	3,590	3,310	3,400	4,090	6,530	7,170	1,200	1,280	66	145	590
17	6,360	3,590	3,340	3,800	4,150	6,810	7,110	1,260	1,190	44	117	566
18	6,360	3,620	3,450	3,900	4,150	7,290	7,110	1,320	1,050	41	87	554
19	6,360	3,590	2,700	4,000	4,000	7,610	6,580	1,300	748	41	96	530
20	6,260	3,840	2,600	4,100	4,060	7,940	7,110	1,280	638	47	106	566
21	6,640	3,750	2,600	4,100	4,260	7,940	6,700	1,280	602	44	106	614
22	6,580	3,750	2,600	4,100	4,260	8,000	6,420	1,260	556	55	96	638
23	6,150	3,780	2,500	4,300	4,500	7,870	6,360	1,220	506	71	128	554
24	5,900	3,680	2,500	4,500	4,150	7,540	6,260	1,240	518	92	139	578
25	5,700	3,780	2,400	4,550	4,540	7,540	5,950	1,080	410	156	117	602
26	5,700	3,810	2,400	4,600	4,930	7,540	5,480	1,050	360	260	96	614
27	5,660	3,780	2,400	4,700	4,600	7,480	5,560	1,010	268	276	92	870
28	5,700	3,810	2,300	4,900	4,260	7,480	5,610	918	163	310	100	966
29	5,610	3,900	2,300	5,000	------	7,420	4,850	966	163	293	122	934
30	5,090	4,120	2,300	5,170	------	7,350	4,850	870	177	410	111	870
31	4,600	------	2,300	5,380	------	7,290	------	822	------	370	134	------
TOTAL	194,760	112,880	99,090	111,100	119,940	196,600	204,220	57,586	24,140	3,637	9,422	19,525
MEAN	6,283	3,763	3,196	3,584	4,284	6,342	6,807	1,858	805	117	304	651
MAX	7,800	4,220	4,180	5,380	5,170	8,000	7,680	4,570	2,180	410	822	966
MIN	4,600	3,560	2,300	2,400	3,530	4,360	4,850	822	163	22	87	285
AC-FT	386,300	223,900	196,500	220,400	237,900	390,000	405,100	114,200	47,880	7,210	18,690	38,730

CAL YR 1973 TOTAL 1,594,396 MEAN 4,368 MAX 17,900 MIN 175 AC-FT 3,162,000
WTR YR 1974 TOTAL 1,152,900 MEAN 3,159 MAX 8,000 MIN 22 AC-FT 2,287,000

06770500 Platte River near Grand Island, Nebr.

LOCATION.--Lat 40°52'28", long 98°16'54", in SW1/4SW1/4 sec.31, T.11 N., R.8 W., Merrick County, 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.--62,800 mi² (162,700 km²), approximately, of which about 54,000 mi² (139,900 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1933 to current year.

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.

EXTREMES.--Current year: Maximum discharge, 9,390 ft³/s (266 m³/s) Oct. 1, gage height, 4.06 ft (1.237 m), occurred on recession following peak of Sept. 28, 1973; maximum independent peak discharge, 7,770 ft³/s (220 m³/s) Apr. 14, gage height, 3.90 ft (1.189 m); maximum gage height recorded, 5.65 ft (1.722 m) Jan. 9, backwater from ice, but may have been exceeded during the period of ice effect Jan. 2-9; no flow July 18-28.
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.

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. Records of chemical analyses and water temperatures for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 956: 1935. WSP 1390: 1942. WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,200	4,710	4,370	2,700	5,400	3,780	6,640	4,970	999	242	159	3.1
2	8,980	4,290	4,440	2,700	5,600	4,040	6,420	4,760	950	211	232	7.8
3	8,610	4,010	4,460	2,800	5,200	4,400	6,770	4,020	890	211	253	13
4	8,120	3,840	4,400	2,900	5,400	4,550	6,940	4,020	834	192	253	77
5	7,560	3,750	4,350	2,900	5,200	4,400	6,820	3,760	761	170	211	221
6	7,430	3,710	3,900	3,000	4,800	4,350	7,090	3,420	728	142	200	285
7	7,560	3,640	3,700	3,200	4,900	4,550	7,360	3,240	731	112	211	359
8	7,610	3,610	3,900	3,200	5,000	4,650	7,260	3,090	704	78	264	412
9	7,850	3,610	3,820	3,400	5,400	4,750	6,870	3,010	903	53	332	487
10	8,650	3,640	3,780	3,400	5,300	4,500	6,900	2,840	1,370	40	295	535
11	8,530	3,580	3,580	3,200	5,200	4,600	7,250	2,960	1,680	25	295	535
12	7,820	3,540	3,700	3,200	5,400	4,950	7,390	2,450	1,940	19	346	535
13	7,130	3,540	3,740	3,200	4,800	5,200	7,450	2,090	2,340	12	425	535
14	6,790	3,390	3,660	3,300	4,600	5,210	7,640	1,900	2,300	8.4	519	551
15	6,730	3,320	3,620	3,400	4,300	5,400	7,540	1,850	1,900	4.8	487	584
16	6,810	3,350	3,240	3,500	4,120	5,670	7,440	1,730	1,590	1.3	359	551
17	6,770	3,350	3,200	3,700	4,170	5,800	7,260	1,650	1,470	.08	242	487
18	6,800	3,560	3,300	4,000	4,300	6,020	7,160	1,680	1,340	0	184	454
19	6,830	3,600	1,950	4,200	4,220	6,370	7,050	1,700	1,210	0	126	454
20	6,770	4,570	2,800	4,400	4,040	6,730	6,690	1,680	898	0	77	438
21	6,620	4,390	3,100	4,300	3,990	6,670	7,100	1,580	741	0	53	438
22	6,690	4,090	3,000	4,300	3,940	6,800	6,710	1,530	645	0	39	487
23	6,660	3,860	2,900	4,500	4,040	7,010	6,410	1,410	604	0	24	487
24	6,060	3,840	3,000	4,700	3,820	7,110	6,460	1,300	560	0	20	519
25	5,660	3,750	3,000	4,700	4,080	7,140	6,480	1,300	494	0	17	535
26	5,380	3,790	3,000	4,900	4,350	7,190	6,520	1,240	458	0	12	551
27	5,140	3,960	3,000	4,900	4,450	7,310	5,680	1,130	400	0	9.9	584
28	5,130	3,890	3,000	5,200	3,990	7,120	5,660	1,090	338	0	7.1	584
29	5,460	3,980	2,900	5,200	------	6,990	5,540	1,040	295	2.2	3.7	668
30	5,510	4,110	2,900	5,400	------	6,980	5,120	1,040	264	17	1.9	719
31	5,220	------	2,800	5,600	------	6,940	------	1,050	------	32	.90	------
TOTAL	216,080	114,270	106,510	120,000	130,010	177,180	203,620	70,530	30,337	1,572.78	5,658.50	13,095.9
MEAN	6,970	3,809	3,436	3,871	4,643	5,715	6,787	2,275	1,011	50.7	183	437
MAX	9,200	4,710	4,460	5,600	5,600	7,310	7,640	4,970	2,340	242	519	719
MIN	5,130	3,320	1,950	2,700	3,820	3,780	5,120	1,040	264	0	.90	3.1
AC-FT	428,600	226,700	211,300	238,000	257,900	351,400	403,900	139,900	60,170	3,120	11,220	25,980

CAL YR 1973 TOTAL 1,628,585.00 MEAN 4,462 MAX 17,700 MIN 315 AC-FT 3,230,000
WTR YR 1974 TOTAL 1,188,864.18 MEAN 3,257 MAX 9,200 MIN .0 AC-FT 2,358,000

06771500 Wood River near Gibbon, Nebr.

LOCATION.--Lat 40°46'17", long 98°47'51", in NW1/4NW1/4 sec.9, T.9 N., R.13 W., 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 current year.

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.

AVERAGE DISCHARGE.--25 years, 13.8 ft³/s (0.391 m³/s), 10,000 acre-ft/yr (12.3 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.--Current year: Maximum discharge, 78 ft³/s (2.21 m³/s) Oct. 1, gage height, 6.89 ft (2.100 m), occurred on recession following peak of Sept. 29, 1973; maximum independent peak discharge, 58 ft³/s (1.64 m³/s) Oct. 11, gage height, 6.40 ft (1.951 m); no flow for many days.
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, 1964-74.

REMARKS.--Records fair except those for winter period, which are poor. Numerous small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	0	.06	0	3.0	4.2	1.4	3.3	.44	5.2	4.9	1.0
2	30	0	.26	0	3.0	4.1	1.0	3.1	.57	3.4	6.7	.56
3	14	0	.27	0	3.0	4.2	1.7	2.8	.40	2.1	7.5	.41
4	6.6	0	.14	0	2.8	4.1	2.5	2.4	.29	3.8	7.4	.29
5	3.6	.07	.08	0	2.6	5.2	3.9	1.4	.23	4.3	7.2	.46
6	2.5	.22	.06	0	1.6	5.5	4.0	.98	.26	3.0	8.2	.86
7	1.2	.77	.06	0	1.8	5.5	5.0	.78	.30	5.2	6.6	.27
8	5.4	1.1	.10	0	1.8	5.1	3.8	.28	.43	5.6	5.8	.07
9	11	1.3	.15	0	2.0	3.3	6.0	.15	2.0	4.9	7.8	.05
10	8.9	1.1	.18	0	2.0	2.4	7.4	.15	3.1	4.8	8.6	.04
11	22	.40	.06	0	2.2	2.5	6.0	.23	2.7	7.2	7.0	.02
12	42	.09	.05	0	2.4	2.5	6.0	.43	7.8	7.7	5.1	.05
13	26	0	.08	0	3.0	2.1	6.2	.20	7.5	7.6	5.2	.21
14	17	0	.10	0	3.4	1.9	7.9	.27	17	6.8	3.7	.27
15	9.8	0	.15	0	13	1.9	4.8	.41	15	6.7	4.6	.25
16	5.1	0	.08	.10	16	1.8	4.1	.27	9.9	6.2	6.1	.14
17	2.4	0	.08	.15	18	1.8	3.5	.34	15	6.2	5.7	.04
18	1.0	0	.05	.20	11	2.9	3.0	.34	15	8.1	6.1	0
19	.37	0	.02	.20	13	2.9	3.3	.33	37	11	3.4	0
20	.30	0	0	.18	15	2.6	3.5	.33	45	9.5	3.6	.08
21	.15	0	0	.16	13	2.3	3.3	.28	31	11	3.8	.25
22	.07	0	0	.15	11	1.9	1.9	.21	21	11	1.9	.24
23	.01	2.8	0	.20	10	1.3	1.7	.15	14	8.6	3.1	.21
24	0	.42	0	.40	8.4	.92	1.7	.10	9.7	6.3	4.2	.11
25	0	.15	0	.70	5.0	1.4	2.3	.09	7.8	6.8	3.9	.03
26	0	.14	0	1.0	3.5	2.1	2.3	.16	5.7	7.5	4.0	.01
27	.01	.10	0	2.0	2.5	2.4	2.0	.17	4.4	6.7	3.8	.01
28	.37	.38	0	2.8	3.2	2.2	2.0	.10	4.4	4.2	3.0	.22
29	.05	.14	0	3.5	------	2.0	2.2	.07	5.3	3.2	2.5	.35
30	0	.03	0	3.5	------	1.1	2.3	.18	5.0	5.3	2.3	.27
31	0	------	0	3.2	------	1.0	------	.39	------	4.6	1.6	------
TOTAL	272.83	9.21	2.03	18.44	177.2	85.12	106.7	20.39	288.22	194.5	155.3	6.77
MEAN	8.80	.31	.066	.59	6.33	2.75	3.56	.66	9.61	6.27	5.01	.23
MAX	63	2.8	.27	3.5	18	5.5	7.9	3.3	45	11	8.6	1.0
MIN	0	0	0	0	1.6	.92	1.0	.07	.23	2.1	1.6	0
AC-FT	541	18	4.0	37	351	169	212	40	572	386	308	13

CAL YR 1973 TOTAL 2,347.98 MEAN 6.43 MAX 81 MIN 0 AC-FT 4,660
WTR YR 1974 TOTAL 1,336.71 MEAN 3.66 MAX 63 MIN 0 AC-FT 2,650

PEAK DISCHARGE (BASE, 300 FT³/S).--No peak above base

06772000 Wood River near Alda, Nebr.

LOCATION.--Lat 40°51'10", long 98°28'20", in NE1/4SE1/4 sec.7, T.10 N., R.10 W., Hall County, 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).

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).

AVERAGE DISCHARGE.--21 years, 11.1 ft³/s (0.314 m³/s), 8,040 acre-ft/yr (9.91 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.--Current year: Maximum discharge, 87 ft³/s (2.46 m³/s) Oct. 1, gage height, 6.20 ft (1.890 m); no flow for most of year.
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. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REMARKS.--Records fair. Numerous small pump diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58			0	0	2.5	.51	.56	0	3.5	4.3	.46
2	81			0	0	2.0	.61	.51	0	4.4	1.6	.46
3	58			0	0	2.2	.92	.36	0	4.6	2.2	.46
4	28			0	0	2.4	1.4	.32	0	5.3	8.2	.22
5	13			0	0	2.4	2.3	.28	0	2.6	10	0
6	5.7			0	4.6	2.5	2.9	.20	0	2.0	6.1	0
7	2.5			0	5.7	2.3	3.8	.11	0	1.8	7.9	0
8	1.5			0	2.8	2.6	3.3	.06	0	1.8	5.7	0
9	.99			0	2.0	3.1	3.6	.08	0	1.5	4.1	0
10	1.1			0	.92	2.9	5.2	.46	0	1.6	5.7	0
11	9.5			0	1.5	3.1	5.2	.02	0	2.3	2.4	0
12	7.9			0	1.2	2.4	6.1	0	0	2.1	2.0	0
13	13			0	2.1	1.8	5.3	0	0	2.1	3.9	0
14	42			0	3.3	1.7	4.1	0	0	4.6	2.9	0
15	26			0	2.1	1.6	3.6	0	0	5.0	3.1	0
16	14			0	1.1	1.3	3.3	0	0	4.6	.92	0
17	5.9			0	1.1	1.2	4.1	0	7.4	4.6	2.6	0
18	2.6			0	11	1.1	2.5	0	5.7	2.4	2.9	0
19	1.8			0	22	.99	1.8	0	4.3	3.2	2.3	0
20	.20			0	14	.92	2.0	0	8.2	3.6	3.9	0
21	0			0	7.9	.78	1.6	0	14	5.7	2.2	0
22	0			0	10	.72	1.5	0	34	7.7	1.8	0
23	0			0	5.5	.72	1.3	0	24	6.6	.92	0
24	0			0	16	.61	1.3	0	18	4.8	.41	0
25	0			0	12	.46	1.1	0	12	9.5	.32	0
26	0			0	8.7	.36	1.1	0	8.4	7.2	.28	0
27	0			0	10	.32	.92	0	6.8	5.3	.24	0
28	0			0	3.8	.32	.85	0	5.9	6.1	.24	0
29	0			0	------	.36	.66	0	3.9	4.1	.20	0
30	0			.12	------	.36	.61	0	4.1	5.0	.24	0
31	0	------		0	------	.46	------	0	------	6.1	.28	------
TOTAL	372.69	0	0	.12	149.32	46.48	73.48	2.96	156.7	131.7	89.85	1.60
MEAN	12.0	0	0	.004	5.33	1.50	2.45	.096	5.22	4.25	2.90	.053
MAX	81	0	0	.12	22	3.1	6.1	.56	34	9.5	10	.46
MIN	0	0	0	0	0	.32	.51	0	0	1.5	.20	0
AC-FT	739	0	0	.2	296	92	146	5.9	311	261	178	3.2

CAL YR 1973 TOTAL 2,359.33 MEAN 6.46 MAX 160 MIN 0 AC-FT 4,680
WTR YR 1974 TOTAL 1,024.90 MEAN 2.81 MAX 81 MIN 0 AC-FT 2,030

PEAK DISCHARGE (BASE, 300 FT³/S).--No peak above base.

06774000 Platte River near Duncan, Nebr.

LOCATION.--Lat 41°22'04", long 97°29'40", in SE1/4SW1/4 sec.12, T.16 N., R.2 W., Platte County, 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.--64,900 mi² (168,100 km²), approximately.

PERIOD OF RECORD.--June 1895 to December 1909 (irrigation seasons only 1895-1900), July 1910 to December 1911 (gage heights and discharge measurements only), April 1912 to September 1915, June 1928 to current year. Published as "near Columbus" 1895-1915.

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.

EXTREMES.--Current year: Maximum discharge, 8,880 ft³/s (251 m³/s) Oct. 1, gage height, 3.87 ft (1.180 m), occurred on recession following peak of Sept. 30, 1973; maximum independent peak discharge, about 8,400 ft³/s (238 m³/s) Feb. 13, gage height, 4.20 ft (1.280 m), backwater from ice; maximum gage height, 4.38 ft (1.335 m) Jan. 19, backwater from ice; no flow July 28-31, Aug. 2-10, Sept. 9.
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 them in use; no flow at times in 1931, 1933-42, 1944, 1952-57, 1959, 1963, 1974.

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. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 956: 1935. WSP 1390: 1897, 1899-1901, 1903-5, 1929-32, 1935(M), 1936. WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,720	4,950	5,410	2,800	5,800	5,730	7,260	4,730	1,050	238	.02	15
2	8,600	4,540	5,560	2,900	5,800	5,400	7,160	4,430	1,010	190	0	13
3	8,330	4,250	5,460	3,000	5,800	5,230	7,320	4,160	1,100	155	0	7.7
4	7,950	4,100	5,410	3,100	5,800	5,520	7,900	3,670	1,200	136	0	3.7
5	7,880	4,090	5,040	3,200	5,800	5,590	8,110	3,610	1,300	120	0	1.7
6	7,530	4,090	5,040	3,300	5,800	5,330	7,870	3,310	1,600	96	0	1.1
7	7,070	4,080	4,680	3,400	5,600	5,140	7,400	3,070	1,400	80	0	.28
8	6,890	4,130	4,700	3,500	5,600	5,190	7,200	2,840	1,350	60	0	.08
9	6,760	4,270	4,500	3,600	5,600	5,190	7,150	2,960	1,300	48	0	0
10	7,160	4,400	4,300	3,600	5,600	5,380	6,950	3,220	1,450	39	0	8.6
11	7,950	4,380	4,700	3,500	6,000	5,370	7,050	4,920	1,600	28	4.1	113
12	8,190	4,360	4,600	3,300	7,000	5,320	7,270	3,760	1,720	22	73	234
13	7,460	4,330	4,500	3,400	8,200	5,450	7,360	2,930	1,830	12	99	344
14	7,180	4,340	4,400	3,500	7,600	5,560	7,490	2,360	2,220	10	117	410
15	6,880	4,310	4,200	3,600	8,000	5,730	7,840	2,060	2,290	12	156	407
16	6,720	4,280	3,800	3,700	8,200	5,850	7,750	1,830	2,040	8.0	311	425
17	6,640	4,230	3,700	3,900	7,400	6,010	7,770	1,700	1,830	3.4	438	466
18	6,560	4,190	3,700	4,600	6,000	5,930	7,590	2,040	1,630	2.8	481	443
19	6,390	4,380	3,000	4,700	5,760	5,990	7,430	2,180	1,490	2.7	321	376
20	6,140	5,310	2,100	4,600	5,880	6,210	7,580	1,850	1,390	2.8	263	303
21	5,870	6,040	2,500	4,800	5,600	6,720	6,880	1,580	1,180	1.9	174	276
22	5,720	5,520	3,300	4,800	5,280	6,820	6,950	1,480	955	2.5	126	257
23	5,720	5,200	3,200	5,000	5,200	6,850	6,540	1,360	772	1.4	100	282
24	5,780	5,200	3,400	5,200	4,860	6,920	6,170	1,280	643	.96	89	273
25	5,560	5,120	3,200	5,600	4,400	7,120	6,140	1,240	577	.63	75	275
26	5,400	5,100	3,100	5,400	4,900	7,050	6,110	1,220	522	.20	55	295
27	5,250	5,240	3,400	5,400	5,400	7,120	5,990	1,260	473	.03	34	309
28	5,210	5,420	3,300	5,400	5,670	7,280	5,280	1,210	401	0	23	313
29	5,120	5,350	3,200	5,800	------	7,190	5,160	1,090	313	0	19	340
30	5,140	5,380	3,000	6,000	------	7,210	5,030	980	264	0	15	374
31	5,100	------	2,900	5,800	------	7,250	------	1,050	------	0	19	------
TOTAL	206,870	140,580	123,300	130,400	168,550	188,650	209,700	75,380	36,900	1,273.32	2,992.12	6,566.16
MEAN	6,673	4,686	3,977	4,206	6,020	6,085	6,990	2,432	1,230	41.1	96.5	219
MAX	8,720	6,040	5,560	6,000	8,200	7,280	8,110	4,920	2,290	238	481	466
MIN	5,100	4,080	2,100	2,800	4,400	5,140	5,030	980	264	0	0	0
AC-FT	410,300	278,800	244,600	258,600	334,300	374,200	415,900	149,500	73,190	2,530	5,930	13,020

CAL YR 1973 TOTAL 1,692,183.00 MEAN 4,636 MAX 16,500 MIN 345 AC-FT 3,356,000
WTR YR 1974 TOTAL 1,291,161.60 MEAN 3,537 MAX 8,720 MIN .0 AC-FT 2,561,000

06775500 Middle Loup River at Dunning, Nebr.

LOCATION.--Lat 41 49'50", long 100 06'00", in NW1/4SE1/4 sec.33, T.22 N., R.24 W., Blaine County, 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 mi (4,790 km), approximately, of which about 80 mi (210 km) contributes directly to surface runoff.

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

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.

AVERAGE DISCHARGE.--29 years, 398 ft /s (11.27 m /s), 288,400 acre-ft/yr (0.356 km /yr).

EXTREMES.--Current year: Maximum discharge, 750 ft /s (21.2 m /s) June 9, gage height, 2.16 ft (0.658 m); maximum gage height, 4.60 ft (1.402 m) Dec. 31, backwater from ice; minimum daily discharge, 290 ft /s (8.21 m /s) Dec. 31.
Period of record: Maximum discharge, 1,020 ft /s (28.9 m /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 ft /s (2.83 m /s) Dec. 5, 6, 1950.

REMARKS.--Records good except those for winter period, which are poor. Records of water temperatures for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	449	414	455	330	470	454	454	426	416	347	349	391
2	439	433	445	380	487	467	439	428	415	346	354	384
3	442	409	450	410	475	481	502	430	404	348	342	374
4	423	428	445	420	471	473	436	417	394	334	337	371
5	394	398	450	430	470	470	414	420	391	332	348	367
6	380	421	430	420	430	440	441	413	400	328	349	374
7	380	448	400	410	400	453	459	407	396	323	350	373
8	388	454	405	410	420	455	454	397	424	327	359	374
9	401	445	380	400	426	455	442	406	649	338	391	373
10	398	438	380	380	415	444	458	408	493	344	418	378
11	452	437	385	390	444	471	507	411	445	343	400	381
12	418	452	400	370	461	450	520	381	430	339	370	398
13	392	458	390	370	462	452	457	387	425	326	367	392
14	377	456	380	400	462	437	448	399	418	336	359	380
15	381	463	380	560	453	478	459	366	405	342	374	379
16	397	453	360	580	460	442	467	364	391	336	402	383
17	387	432	356	580	450	440	441	367	390	324	475	375
18	392	437	379	560	466	463	439	380	386	319	465	377
19	399	457	352	540	461	454	447	367	377	318	400	375
20	401	475	321	520	494	461	517	391	376	318	394	383
21	399	449	310	520	460	434	531	511	369	325	431	389
22	401	411	320	500	456	441	477	431	364	328	394	380
23	406	433	322	520	410	428	469	410	371	330	377	383
24	425	446	310	480	424	394	491	395	365	336	371	386
25	411	451	320	460	415	392	483	398	363	351	369	381
26	413	453	340	490	429	418	486	384	359	344	368	381
27	408	445	340	495	439	439	466	387	353	334	370	402
28	411	440	340	500	438	438	453	410	348	333	364	390
29	409	445	330	511	------	457	440	421	346	331	399	380
30	423	445	310	501	------	431	432	461	344	335	412	384
31	422	------	290	500	------	449	------	433	------	344	388	------
TOTAL	12,618	13,226	11,475	14,337	12,548	13,861	13,929	12,606	12,007	10,359	11,846	11,438
MEAN	407	441	370	462	448	447	464	407	400	334	382	381
MAX	452	475	455	580	494	481	531	511	649	351	475	402
MIN	377	398	290	330	400	392	414	364	344	318	337	367
AC-FT	25,030	26,230	22,760	28,440	24,890	27,490	27,630	25,000	23,820	20,550	23,500	22,690

CAL YR 1973 TOTAL 151,175 MEAN 414 MAX 656 MIN 290 AC-FT 299,900
WTR YR 1974 TOTAL 150,250 MEAN 412 MAX 649 MIN 290 AC-FT 298,000

06775900 Dismal River near Thedford, Nebr.
(Hydrologic bench-mark station)

LOCATION.--Lat 41°46'45", long 100°31'30", in SE1/4NW1/4 sec.23, T.21 N., R.28 W., Thomas County, 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.

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.

AVERAGE DISCHARGE.--8 years, 191 ft³/s (5.409 m³/s), 138,400 acre-ft/yr (0.171 km³/yr).

EXTREMES.--Current year: Maximum discharge, 248 ft³/s (7.02 m³/s) May 21,30, gage height 2.02 ft (0.616 m); minimum daily, 167 ft³/s (4.73 m³/s) July 29.
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.

REMARKS.--Records good. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	189	200	171	205	207	194	195	187	181	175	173
2	195	186	204	179	203	212	196	196	188	182	171	168
3	191	188	202	179	203	214	190	193	188	180	168	169
4	183	190	200	180	203	210	177	188	185	177	171	170
5	181	189	199	187	205	207	185	188	187	178	173	173
6	182	192	197	186	197	210	193	190	184	176	176	176
7	183	195	197	188	196	212	193	188	186	177	176	177
8	182	186	197	190	207	208	192	189	192	170	174	177
9	179	185	199	190	204	211	195	191	227	174	178	179
10	176	192	191	190	208	209	190	190	199	179	197	179
11	179	194	194	185	205	210	213	183	191	185	173	180
12	185	196	196	180	208	211	203	178	186	182	174	179
13	177	198	195	185	208	209	193	182	188	185	172	178
14	175	197	195	190	202	206	192	175	186	184	173	177
15	173	196	195	200	200	210	195	176	185	180	175	181
16	172	194	200	205	206	200	194	180	185	178	183	180
17	170	196	190	205	210	205	194	182	184	173	181	182
18	174	196	191	200	211	207	194	179	185	176	175	180
19	177	199	177	200	209	204	199	181	185	181	178	182
20	177	190	170	200	215	201	217	191	186	179	175	183
21	180	191	180	200	207	200	210	204	184	171	184	184
22	180	196	185	195	203	203	201	184	180	169	175	185
23	181	198	186	190	207	193	204	182	180	171	180	183
24	180	202	181	195	203	193	202	182	180	172	175	185
25	178	197	179	200	204	195	203	194	178	178	170	182
26	182	199	183	200	202	198	206	189	181	182	175	184
27	182	200	182	205	207	194	203	183	179	173	173	186
28	183	199	180	200	208	196	201	190	181	170	169	182
29	184	200	183	205	------	197	200	189	182	167	175	179
30	185	197	183	204	------	190	194	219	179	170	179	185
31	186	------	181	201	------	193	------	204	------	173	174	------
TOTAL	5,610	5,827	5,892	5,985	5,746	6,315	5,923	5,835	5,588	5,473	5,447	5,378
MEAN	181	194	190	193	205	204	197	188	186	177	176	179
MAX	198	202	204	205	215	214	217	219	227	185	197	186
MIN	170	185	170	171	196	190	177	175	178	167	168	168
AC-FT	11,130	11,560	11,690	11,870	11,400	12,530	11,750	11,570	11,080	10,860	10,800	10,670

CAL YR 1973 TOTAL 69,841 MEAN 191 MAX 234 MIN 162 AC-FT 138,500
WTR YR 1974 TOTAL 69,019 MEAN 189 MAX 227 MIN 167 AC-FT 136,900

06776500 Dismal River at Dunning, Nebr.

LOCATION.--Lat 41°49'23", long 100°06'05", in sec.4, T.21 N., R.24 W., Blaine County, 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.

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.

AVERAGE DISCHARGE.--29 years (1945-74), 321 ft³/s (9.091 m³/s), 232,600 acre-ft/yr (0.287 km³/yr).

EXTREMES.--Current year: Maximum discharge, about 470 ft³/s (13.3 m³/s) June 9, gage height, 1.57 ft (0.479 m), from graph based on partially recorded trace; maximum gage height 3.41 ft (1.039 m) Dec. 31, backwater from ice; minimum daily discharge, 259 ft³/s (7.33 m³/s) July 8.
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.

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

REVISIONS.--WSP 2118: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	335	315	347	270	390	350	350	294	335	271	280	325
2	321	310	352	300	389	357	345	291	321	275	281	320
3	317	307	354	320	384	363	345	293	313	272	279	315
4	307	310	351	310	381	362	333	294	312	267	280	314
5	302	310	352	320	374	353	318	296	309	265	281	312
6	303	319	362	310	366	348	326	293	312	263	285	312
7	306	323	364	320	368	351	327	297	309	260	285	313
8	314	327	367	310	375	350	322	297	318	259	297	313
9	315	327	360	310	375	346	322	304	429	261	362	313
10	303	324	350	300	373	339	324	305	379	268	330	314
11	319	337	351	300	375	338	332	304	327	269	335	310
12	325	353	357	290	377	338	352	304	304	270	323	306
13	315	358	344	310	371	339	330	296	295	269	312	303
14	310	357	341	330	363	341	312	286	286	265	310	304
15	302	361	333	380	359	350	298	283	284	265	356	308
16	297	354	328	400	354	347	291	287	275	265	352	308
17	297	354	327	410	358	348	292	286	278	265	364	309
18	304	358	330	400	360	351	299	284	281	264	371	309
19	306	361	325	380	353	348	302	288	284	263	346	307
20	305	347	310	370	358	341	319	294	286	264	335	304
21	311	362	290	340	369	332	326	329	286	266	330	305
22	309	346	320	320	352	331	313	324	281	267	335	310
23	311	347	335	330	343	324	300	310	275	268	332	313
24	313	353	323	350	336	317	293	301	275	270	324	316
25	302	355	347	360	337	314	297	297	274	277	325	311
26	302	373	358	370	339	322	298	306	272	281	324	314
27	300	354	347	380	345	333	311	309	269	283	321	316
28	302	345	347	390	345	336	304	307	268	276	318	309
29	305	344	348	393	------	342	300	315	269	271	326	308
30	311	347	330	398	------	340	295	344	268	273	333	306
31	311	------	260	395	------	349	------	350	------	276	329	------
TOTAL	9,580	10,238	10,510	10,666	10,169	10,600	9,476	9,368	8,974	8,329	9,961	9,327
MEAN	309	341	339	344	363	342	316	302	299	269	321	311
MAX	335	373	367	410	390	363	352	350	429	283	371	325
MIN	297	307	260	270	336	314	291	283	268	259	279	303
AC-FT	19,000	20,310	20,850	21,160	20,170	21,030	18,800	18,580	17,800	16,520	19,760	18,500

CAL YR 1973 TOTAL 117,542 MEAN 322 MAX 460 MIN 210 AC-FT 233,100
WTR YR 1974 TOTAL 117,198 MEAN 321 MAX 429 MIN 259 AC-FT 232,500

06779000 Middle Loup River at Arcadia, Nebr.

LOCATION.--Lat 41°25'20", long 99°08'10", in sec.26, T.17 N., R.16 W., Valley County, 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.

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.

AVERAGE DISCHARGE.--12 years (1962-74), 651 ft³/s (18.44 m³/s), 471,600 acre-ft/yr (0.581 km³/yr) since diversion to Farwell Irrigation District canal.

EXTREMES.--Current year: Maximum discharge, 1,790 ft³/s (50.7 m³/s) June 9, gage height, 2.95 ft (0.899 m); maximum gage height, 4.73 ft (1.442 m) Feb. 1, backwater from ice; minimum daily discharge, 6.0 ft³/s (0.17 m³/s) July 23.
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.

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.

REVISIONS.--WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	734	948	1,060	720	1,200	1,020	902	413	525	60	88	94
2	619	871	1,110	700	1,300	1,050	890	440	490	62	85	89
3	495	800	1,090	740	1,140	988	834	507	448	93	83	83
4	713	904	1,050	820	1,300	929	1,020	435	376	59	92	71
5	547	1,050	940	800	1,140	897	772	465	360	58	90	74
6	561	820	800	780	1,000	908	780	420	442	53	86	80
7	550	882	760	800	860	882	807	433	518	49	85	91
8	605	882	860	820	880	961	910	452	345	49	115	132
9	912	871	820	800	900	888	870	484	1,310	22	107	136
10	1,130	770	760	780	940	1,000	825	515	900	16	192	204
11	1,080	780	860	760	960	981	870	602	553	47	138	221
12	1,060	800	880	700	1,200	959	1,090	512	553	24	83	271
13	943	780	840	720	1,180	850	960	391	587	27	77	299
14	933	780	800	760	1,160	888	825	406	537	47	70	296
15	903	770	700	840	1,350	904	782	377	526	49	73	264
16	891	802	600	960	1,600	915	888	381	494	42	140	239
17	953	870	620	1,100	1,700	840	934	442	466	40	141	272
18	1,040	899	640	1,140	1,470	830	861	567	427	11	207	300
19	953	887	350	1,100	1,210	893	772	567	457	6.4	223	316
20	1,000	780	180	1,160	1,010	893	806	538	438	7.9	109	355
21	944	500	340	1,140	960	888	905	686	370	9.7	101	442
22	914	560	440	1,100	920	871	787	709	234	14	133	394
23	866	700	500	1,200	980	850	625	652	202	6.0	116	330
24	953	860	540	1,350	840	850	506	532	184	8.1	80	316
25	1,030	800	600	1,400	920	959	551	525	112	24	79	360
26	948	900	660	1,450	1,040	1,050	554	574	87	54	72	320
27	959	1,060	700	1,400	960	999	696	623	77	56	63	300
28	893	1,000	680	1,350	1,040	970	607	595	73	58	58	335
29	790	1,200	740	1,400	------	940	533	602	70	32	56	325
30	790	1,050	780	1,450	------	940	500	708	59	32	57	316
31	926	------	740	1,250	------	960	------	651	------	82	67	------
TOTAL	26,635	25,576	22,440	31,490	31,160	28,753	23,662	16,204	12,220	1,198.1	3,166	7,325
MEAN	859	853	724	1,016	1,113	928	789	523	407	38.6	102	244
MAX	1,130	1,200	1,110	1,450	1,700	1,050	1,090	709	1,310	93	223	442
MIN	495	500	180	700	840	830	500	377	59	6.0	56	71
AC-FT	52,830	50,730	44,510	62,460	61,810	57,030	46,930	32,140	24,240	2,380	6,280	14,530

CAL YR 1973 TOTAL 228,930.0 MEAN 627 MAX 2,060 MIN 20 AC-FT 454,100
WTR YR 1974 TOTAL 229,829.1 MEAN 630 MAX 1,700 MIN 6.0 AC-FT 455,900

06780000 Middle Loup River at Rockville, Nebr.

LOCATION.--Lat 41°06'39", long 98°50'19", in NE1/4SW1/4 sec.8, T.13 N., R.13 W., Sherman County, on right bank just downstream from bridge on State Highway 68, 0.6 mi (1.0 km) southwest of Rockville.

DRAINAGE AREA.--5,310 mi² (13,800 km²), approximately, of which about 1,090 mi² (2,820 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1955 to September 1964, October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,956.68 ft (596.396 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 762 ft³/s (21.58 m³/s), 552,100 acre-ft/yr (0.681 km³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, about 2,700 ft³/s (76.5 m³/s) June 9, gage height, 5.20 ft (1.585 m); maximum gage height recorded, 6.39 ft (1.948 m) Jan. 19, backwater from ice, but may have been higher during period of no gage-height record Dec. 26 to Jan. 2; minimum daily discharge, 27 ft³/s (0.76 m³/s) July 20.
Period of record: Maximum discharge, 10,400 ft³/s (295 m³/s) June 16, 1957, gage height, 4.62 ft (1.408 m); maximum gage height, 7.16 ft (2.182 m) Mar. 20, 1969, backwater from ice; minimum daily discharge, 27 ft³/s (0.76 m³/s) July 20,1974.

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

REVISIONS.--WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,120	980	1,250	800	1,300	1,210	943	567	645	91	98	110
2	1,020	940	1,300	780	1,350	1,340	1,100	481	478	89	102	102
3	944	860	1,250	820	1,300	1,270	1,170	533	446	110	95	94
4	787	820	1,160	860	1,350	1,250	1,040	569	402	127	92	86
5	850	820	1,060	840	1,300	1,270	880	468	315	95	98	88
6	703	837	900	820	1,080	1,300	974	464	364	78	98	94
7	676	820	860	840	920	1,250	1,100	393	422	68	90	110
8	693	900	880	860	940	1,100	1,300	404	340	61	89	140
9	860	960	960	860	960	974	1,360	511	1,450	64	121	150
10	1,270	1,000	1,040	840	980	880	1,270	534	1,000	54	117	190
11	1,300	1,000	1,000	820	1,100	1,000	1,360	712	700	37	196	210
12	1,300	1,060	1,020	740	1,400	1,050	1,320	662	660	47	132	292
13	1,190	980	960	760	1,350	1,210	1,270	523	660	50	78	414
14	927	820	900	820	1,300	1,310	1,090	338	647	36	77	414
15	988	900	800	940	1,500	1,390	1,040	438	567	62	76	379
16	1,020	960	700	1,020	1,800	1,160	1,000	370	535	68	108	303
17	942	960	720	1,140	1,750	994	1,090	414	479	64	238	272
18	974	980	740	1,200	1,650	1,100	1,000	462	448	64	282	269
19	1,020	960	400	1,160	1,550	1,160	871	572	413	43	305	265
20	1,040	860	220	1,220	1,240	1,050	837	469	442	27	264	263
21	1,140	600	360	1,180	1,080	1,180	927	509	395	28	141	309
22	1,020	640	500	1,160	1,060	1,080	941	627	338	32	126	435
23	1,090	800	560	1,350	1,250	923	641	670	260	30	161	363
24	1,070	1,100	640	1,450	1,140	949	576	601	234	28	132	321
25	1,090	1,000	700	1,500	1,120	1,040	718	506	214	38	93	327
26	1,020	1,100	740	1,550	1,220	1,010	682	514	150	45	86	351
27	989	1,200	780	1,500	1,160	1,080	805	618	125	67	78	311
28	912	1,020	760	1,450	1,300	1,050	791	602	117	79	76	319
29	880	1,200	800	1,500	------	837	696	633	109	73	68	378
30	837	1,300	840	1,550	------	753	632	683	95	58	68	365
31	940	------	820	1,400	------	912	------	727	------	54	82	------
TOTAL	30,612	28,377	25,620	33,730	35,450	34,082	29,424	16,574	13,450	1,867	3,867	7,724
MEAN	987	946	826	1,088	1,266	1,099	981	535	448	60.2	125	257
MAX	1,300	1,300	1,300	1,550	1,800	1,390	1,360	727	1,450	127	305	435
MIN	676	600	220	740	920	753	576	338	95	27	68	86
AC-FT	60,720	56,290	50,820	66,900	70,320	67,600	58,360	32,870	26,680	3,700	7,670	15,320

CAL YR 1973 TOTAL 272,559 MEAN 747 MAX 2,460 MIN 37 AC-FT 540,600
WTR YR 1974 TOTAL 260,777 MEAN 714 MAX 1,800 MIN 27 AC-FT 517,300

06782500 South Loup River at Ravenna, Nebr.

LOCATION.--Lat 41°00'42", long 98°54'44", in SW1/4NW1/4 sec.16, T.12 N., R.14 W., Buffalo County, 16 ft (5 m) downstream and 38 ft (12 m) left of left downstream corner of county highway bridge, 0.5 mi (0.8 km) south of Ravenna city limits, and 1.4 mi (2.3 km) upstream from Mud Creek.

DRAINAGE AREA.--1,570 mi² (4,070 km²), approximately, of which about 890 mi² (2,310 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1940 to September 1958, October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,983.73 ft (604.641 m) above mean sea level, adjusted. Oct. 14, 1940, to Mar. 9, 1958, nonrecording gage and crest-stage gage at same site and datum, and Mar. 10, 1958, to Sept. 30, 1958, at same site at datum 0.48 ft (0.146 m) higher.

AVERAGE DISCHARGE.--25 years, 193 ft³/s (5.466 m³/s), 139,800 acre-ft/yr (0.172 km³/yr).

EXTREMES.--Current year: Maximum discharge, 1,770 ft³/s (50.1 m³/s) June 9, gage height, 5.05 ft (1.539 m); maximum gage height, 5.16 ft (1.573 m) Nov. 22, ice jam; minimum daily discharge, 39 ft³/s (1.10 m³/s) July 21.
Period of record: Maximum discharge estimated, about 41,000 ft³/s (1,160 m³/s) June 22, 1947, gage height, 12.6 ft (3.84 m), from floodmark; maximum discharge computed, 17,100 ft³/s (484 m³/s) June 24, 1968, gage height, 10.32 ft (3.146 m); minimum daily, 8.6 ft³/s (0.24 m³/s) Aug. 28, 1955.

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

REVISIONS.--WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	172	136	145	390	215	168	121	163	108	84	96
2	190	168	146	150	350	204	143	118	154	102	74	99
3	150	163	159	145	330	185	190	121	146	108	67	96
4	132	150	168	140	310	199	246	111	139	87	65	105
5	132	146	172	150	280	215	225	125	108	90	74	102
6	125	159	176	160	195	215	220	150	282	87	82	99
7	150	181	176	170	175	220	270	163	185	77	79	96
8	150	172	181	170	190	230	225	168	194	70	79	93
9	159	168	185	170	205	225	225	176	1,470	70	82	87
10	172	163	190	160	250	220	230	199	1,340	67	84	87
11	181	136	210	160	290	236	276	230	661	55	99	82
12	220	176	220	160	330	230	276	230	340	60	93	93
13	220	199	215	160	400	236	236	252	401	67	93	108
14	204	190	240	150	442	220	236	204	270	62	90	113
15	185	190	230	170	333	230	236	181	236	60	87	118
16	185	185	70	180	306	236	225	172	230	58	93	114
17	194	159	78	200	276	220	225	159	220	65	99	108
18	185	136	86	210	282	225	210	159	210	53	99	102
19	190	130	76	240	258	204	204	163	220	44	99	96
20	199	110	70	260	220	204	220	154	270	44	90	96
21	199	64	68	260	190	220	204	163	236	39	84	105
22	204	130	72	290	180	210	210	150	204	49	79	102
23	210	160	78	270	170	215	270	139	190	47	79	102
24	199	154	86	280	160	210	252	150	168	53	77	90
25	185	176	98	270	180	210	252	333	163	67	72	96
26	172	215	100	270	204	190	252	401	146	77	77	99
27	159	181	100	290	199	210	246	168	136	82	62	90
28	150	185	114	310	215	230	568	150	125	74	62	93
29	172	163	130	320	------	225	270	163	125	60	74	96
30	185	136	130	350	------	194	154	172	118	58	84	96
31	185	------	135	380	------	190	------	159	------	62	93	------
TOTAL	5,656	4,817	4,295	6,740	7,310	6,673	7,164	5,504	8,850	2,102	2,555	2,964
MEAN	182	161	139	217	261	215	239	178	295	67.8	82.4	98.8
MAX	313	215	240	380	442	236	568	401	1,470	108	99	118
MIN	125	64	68	140	160	185	143	111	108	39	62	82
AC-FT	11,220	9,550	8,520	13,370	14,500	13,240	14,210	10,920	17,550	4,170	5,070	5,880

CAL YR 1973 TOTAL 74,825 MEAN 205 MAX 1,900 MIN 46 AC-FT 148,400
WTR YR 1974 TOTAL 64,630 MEAN 177 MAX 1,470 MIN 39 AC-FT 128,200

06783500 Mud Creek near Sweetwater, Nebr.

LOCATION.--Lat 41°02'15", long 98°59'35", in NE1/4SE1/4 sec.3, T.12 N., R.15 W., Buffalo County, 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.

GAGE.--Water-stage recorder. Datum of gage is 2,013.69 ft (613.773 m) above mean sea level.

AVERAGE DISCHARGE.--28 years, 41.8 ft³/s (1.184 m³/s), 30,280 acre-ft/yr (37.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 568 ft³/s (16.1 m³/s) Apr. 29, gage height, 12.05 ft (3.673 m); minimum daily, 2.9 ft³/s (0.082 m³/s) July 24.
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.
Maximum stage known since at least 1929, that of June 22, 1947, from information by local resident.

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

REVISIONS.--WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	25	26	27	31	35	34	90	28	18	5.6	16
2	58	25	27	26	48	35	35	65	29	16	12	17
3	39	24	28	29	34	35	38	52	27	17	19	15
4	32	24	27	27	34	35	42	46	25	17	10	15
5	28	24	22	26	36	34	40	41	25	23	9.8	15
6	26	24	12	27	25	34	42	39	32	26	9.8	13
7	26	26	13	26	22	33	43	37	40	18	9.5	13
8	26	25	14	27	35	32	44	36	53	15	11	14
9	26	25	13	27	36	32	44	35	167	13	12	13
10	26	24	14	28	36	32	44	34	136	11	16	13
11	27	24	19	28	35	34	43	37	341	9.4	14	13
12	29	25	18	28	44	35	39	93	249	7.8	24	14
13	30	25	19	27	46	35	37	45	144	7.9	17	13
14	32	25	15	27	47	35	37	37	89	5.5	13	15
15	36	25	16	27	44	36	37	31	69	5.7	6.6	15
16	30	25	20	28	41	35	36	29	66	5.9	7.0	16
17	27	25	25	29	39	35	32	29	44	5.5	8.9	15
18	26	25	22	32	37	35	32	29	43	3.9	18	13
19	26	30	20	34	35	35	31	29	40	3.9	44	13
20	26	35	26	38	35	35	31	29	37	3.1	33	13
21	26	29	25	38	34	35	30	30	34	3.6	17	11
22	26	28	28	38	31	34	30	29	34	3.6	13	12
23	26	29	27	34	30	36	28	27	33	3.7	12	13
24	25	29	28	32	26	35	30	33	30	2.9	14	14
25	25	30	28	32	27	35	28	32	28	4.3	15	13
26	25	33	26	34	44	36	28	28	27	4.5	12	12
27	26	30	26	35	39	36	28	27	25	4.3	12	11
28	26	28	32	30	38	36	62	33	25	3.7	10	11
29	25	29	28	33	------	36	345	28	24	3.9	8.3	11
30	25	30	29	36	------	35	88	27	22	4.2	7.0	12
31	25	------	29	33	------	35	------	26	------	3.6	10	------
TOTAL	1,007	805	702	943	1,009	1,076	1,458	1,183	1,966	274.9	430.5	404
MEAN	32.5	26.8	22.6	30.4	36.0	34.7	48.6	38.2	65.5	8.87	13.9	13.5
MAX	151	35	32	38	48	36	345	93	341	26	44	17
MIN	25	24	12	26	22	32	28	26	22	2.9	5.6	11
AC-FT	2,000	1,600	1,390	1,870	2,000	2,130	2,890	2,350	3,900	545	854	801

CAL YR 1973 TOTAL 13,600.5 MEAN 37.3 MAX 473 MIN 4.3 AC-FT 26,980
WTR YR 1974 TOTAL 11,258.4 MEAN 30.8 MAX 345 MIN 2.9 AC-FT 22,330

PEAK DISCHARGE (BASE, 550 FT³/S).--Apr. 29 (0430) 568 ft³/s (12.05 ft).

06784000 South Loup River at St. Michael, Nebr.

LOCATION.--Lat 41°01'53", long 98°44'25", in NE1/4NE1/4 sec.11, T.12 N., R.13 W., Buffalo County, 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) (revised) contributes directly to surface runoff. ectly to surface runoff.

PERIOD OF RECORD.--October 1943 to current year.

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.

AVERAGE DISCHARGE.--31 years, 245 ft³/s (6.938 m³/s), 177,500 acre-ft/yr (0.219 km³/yr).

EXTREMES.--Current year: Maximum discharge, 1,780 ft³/s (50.4 m³/s) June 9, gage height, 5.70 ft (1.737 m); minimum daily, 32 ft³/s (0.91 m³/s) July 20.
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.

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

REVISIONS.--WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	470	204	224	190	420	298	248	233	201	140	80	90
2	270	202	236	205	420	303	247	242	204	136	103	102
3	210	205	236	200	380	306	266	224	187	139	90	104
4	180	204	239	195	360	314	302	218	174	132	89	108
5	180	204	242	195	320	313	288	218	168	124	76	98
6	170	202	210	215	240	311	289	215	267	126	85	96
7	180	211	212	215	210	302	287	212	224	111	85	96
8	190	218	212	215	230	291	288	210	215	91	85	96
9	200	225	236	215	240	275	285	215	1,220	89	93	94
10	220	225	227	210	280	268	282	224	1,640	84	93	92
11	240	225	248	210	300	278	297	239	1,050	72	98	92
12	290	232	261	210	340	270	297	258	864	62	94	98
13	298	232	261	210	350	257	282	287	560	64	94	107
14	273	235	254	205	330	263	266	218	370	60	83	112
15	273	236	210	220	281	273	269	196	320	56	71	110
16	257	236	130	230	266	275	264	182	310	54	72	107
17	244	232	140	250	267	275	252	171	283	54	76	108
18	228	234	150	270	270	268	247	176	279	52	91	102
19	235	230	120	300	267	268	235	179	313	35	93	95
20	236	180	100	330	268	263	234	179	331	32	121	95
21	233	100	96	330	266	265	227	179	312	35	102	107
22	238	170	100	350	252	257	229	168	279	50	85	111
23	234	240	110	330	251	250	224	168	259	50	79	115
24	225	235	125	330	210	251	227	173	244	50	76	117
25	213	254	135	320	230	252	227	290	229	78	73	116
26	205	255	135	330	265	247	221	560	210	81	75	109
27	205	251	135	330	271	246	221	267	193	94	66	103
28	208	233	150	350	283	252	399	230	167	86	65	105
29	215	254	165	370	------	256	426	236	151	69	70	106
30	204	245	165	400	------	259	261	224	144	61	81	104
31	204	------	175	420	------	258	------	207	------	65	81	------
TOTAL	7,228	6,609	5,639	8,350	8,067	8,464	8,087	6,998	11,368	2,432	2,625	3,095
MEAN	233	220	182	269	288	273	270	226	379	78.5	84.7	103
MAX	470	255	261	420	420	314	426	560	1,640	140	121	117
MIN	170	100	96	190	210	246	221	168	144	32	65	90
AC-FT	14,340	13,110	11,180	16,560	16,000	16,790	16,040	13,880	22,550	4,820	5,210	6,140

CAL YR 1973 TOTAL 94,179 MEAN 258 MAX 2,450 MIN 58 AC-FT 186,800
WTR YR 1974 TOTAL 78,962 MEAN 216 MAX 1,640 MIN 32 AC-FT 156,600

06784200 Sherman Reservoir near Loup City, Nebr.

LOCATION.--Lat 41°18'10", long 98°52'45", in SW1/4NW1/4 sec.1, T.15 N., R.14 W., Sherman County, 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.

EXTREMES.--Current year: Maximum contents observed, 69,650 acre-ft (85.9 hm^3) June 13,14, elevation, 2,162.5 ft (659.13 m); minimum observed, 8,690 acre-ft (10.7 hm^3) Aug. 3, elevation, 2,126.7 ft (648.22 m).
Period of record: Maximum contents observed, 69,650 acre-ft (85.9 hm^3) May 29 to June 1, 1973, elevation, 2,162.5 ft (659.13 m); minimum since appreciable storage was attained, 10,010 acre-ft (12.3 hm^3) Sept. 1, 1971, elevation, 2,128.4 ft (648.74 m).

REMARKS.--Reservoir is formed by earthfill dam; closure date of dam, August 1960. First diversions from Middle Loup River, Nov. 8, 1962. Usable capacity, 60,030 acre-ft (74.0 hm^3) between elevations 2,126.0 ft (648.00 m), minimum water surface, and 2,162.0 ft (658.98 m), crest of spillway. Dead and inactive storage, 8,180 acre-ft (10.1 hm^3) below elevation 2,126.0 ft (648.00 m). Figures given herein represent total contents. Water used for irrigation of Farwell Unit of Bureau of Reclamation.

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

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	2,156.2	52,970	-
Oct. 31	2,157.9	57,180	+4,210
Nov. 30	2,157.2	55,420	-1,760
Dec. 31	2,156.6	53,940	-1,480
CAL YR 1973	-	-	+2,410
Jan. 31	2,156.2	52,970	-970
Feb. 28	2,155.7	51,770	-1,200
Mar. 31	2,155.1	50,350	-1,420
Apr. 30	2,157.1	55,170	+4,820
May 31	2,162.2	68,790	+13,620
June 30	2,161.2	65,960	-2,830
July 31	2,132.4	13,610	-52,350
Aug. 31	2,135.1	16,470	+2,860
Sept. 30	2,149.6	38,520	+22,050
WTR YR 1974	-	-	-14,450

06785000 Middle Loup River at St. Paul, Nebr.

LOCATION.--Lat 41°11'55", long 98°26'50", in NE1/4SW1/4NE1/4 sec.10, T.14 N., R.10 W., Howard County, 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) (revised) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1894 to September 1915, August 1928 to current year. Monthly discharge only for some periods, published in WSP 1310.

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.

AVERAGE DISCHARGE.--67 years, 1,207 ft³/s (34.18 m³/s), 874,500 acre-ft/yr (1.08 km³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 4,050 ft³/s (115 m³/s) June 9, gage height, 5.29 ft (1.612 m); maximum gage height, 6.27 ft (1.911 m) Dec. 30, backwater from ice; minimum daily discharge, 101 ft³/s (2.86 m³/s) July 21.
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.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1036: 1943. WSP 1390: 1896, , 1903, 1928(M), 1944. WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,700	1,180	1,720	900	1,550	1,410	1,300	991	1,040	241	253	234
2	1,220	1,100	1,530	940	1,650	1,370	1,190	902	858	242	410	270
3	982	1,100	1,630	980	1,500	1,330	1,410	761	679	254	377	312
4	923	1,010	1,720	1,040	1,600	1,350	1,390	766	568	282	323	298
5	1,050	1,120	1,600	1,020	1,450	1,710	1,540	797	480	311	250	268
6	882	1,160	1,450	1,000	1,350	1,690	1,350	710	685	249	254	225
7	906	1,100	1,500	1,000	1,650	1,530	1,420	724	845	235	247	199
8	943	1,120	1,600	1,020	1,600	1,450	1,480	696	1,020	216	218	196
9	1,090	1,220	1,450	1,000	1,650	1,470	1,490	882	2,440	210	214	175
10	1,530	1,340	1,350	980	1,700	1,310	1,300	950	2,920	222	299	206
11	2,110	1,380	1,350	960	1,850	1,330	1,470	1,150	1,620	196	256	200
12	2,050	1,480	1,350	940	2,000	1,750	1,690	1,170	1,410	161	380	326
13	1,880	1,340	1,300	1,060	1,900	2,150	1,640	970	1,170	158	249	430
14	1,510	1,140	1,160	1,140	1,750	1,770	1,170	814	850	193	188	490
15	1,410	1,230	1,100	1,400	2,100	1,810	1,290	568	638	166	177	500
16	1,460	1,300	1,000	1,550	2,300	1,710	1,210	616	595	194	274	490
17	1,450	1,270	1,040	1,700	2,400	1,330	1,270	532	513	193	387	396
18	1,350	1,170	1,100	1,850	2,300	1,090	1,430	646	543	186	676	388
19	1,290	1,140	600	1,800	2,200	1,210	1,270	696	723	174	587	384
20	1,200	1,000	300	1,900	1,830	1,410	1,290	738	825	133	579	401
21	1,200	860	500	1,750	1,560	1,380	1,390	604	789	101	518	416
22	1,170	800	760	1,600	1,450	1,620	1,470	766	687	117	309	453
23	1,170	1,200	840	1,750	1,350	1,410	1,170	831	572	156	277	555
24	1,160	1,410	900	1,900	1,200	1,160	1,010	882	457	113	350	475
25	1,280	1,430	960	1,950	1,290	1,270	724	797	430	133	337	412
26	1,270	1,610	1,060	2,000	1,420	1,270	950	1,410	383	156	261	402
27	1,260	1,700	1,020	1,850	1,570	1,490	933	882	268	175	247	435
28	1,280	1,680	960	1,700	1,450	1,380	1,610	950	247	216	204	389
29	1,230	1,540	980	1,750	------	1,520	1,690	889	232	219	204	399
30	1,180	1,630	1,040	1,850	------	1,300	1,330	975	225	196	250	464
31	1,140	------	940	1,600	------	1,240	------	1,100	------	164	252	------
TOTAL	40,276	37,760	35,810	43,880	47,620	45,220	39,877	26,165	24,712	5,962	9,807	10,788
MEAN	1,299	1,259	1,155	1,415	1,701	1,459	1,329	844	824	192	316	360
MAX	2,110	1,700	1,720	2,000	2,400	2,150	1,690	1,410	2,920	311	676	555
MIN	882	800	300	900	1,200	1,090	724	532	225	101	177	175
AC-FT	79,890	74,900	71,030	87,040	94,450	89,690	79,100	51,900	49,020	11,830	19,450	21,400

CAL YR 1973 TOTAL 407,618 MEAN 1,117 MAX 4,610 MIN 170 AC-FT 808,500
WTR YR 1974 TOTAL 367,877 MEAN 1,008 MAX 2,920 MIN 101 AC-FT 729,700

06786000 North Loup River at Taylor, Nebr.

LOCATION.--Lat 41°46'37", long 99°22'45", in NE1/4SE1/4 sec.22, T.21 N., R.18 W., Loup County, 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.

PERIOD OF RECORD.--November 1936 to current year.

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.

AVERAGE DISCHARGE.--37 years (1937-74), 461 ft³/s (13.06 m³/s), 334,000 acre-ft/yr (0.412 km³/yr).

EXTREMES.--Current year: Maximum discharge, 1,040 ft³/s (29.5 m³/s) June 10, gage height, 5.13 ft (1.564 m); maximum gage height recorded, 7.79 ft (2.374 m) Feb. 10, backwater from ice, but may have been higher during period of no gage-height record Jan. 15-20; minimum daily discharge, 92 ft³/s (2.61 m³/s) July 20.
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.

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.

REVISIONS (WATER YEARS).--WSP 856: 1937. WSP 1310: 1939(M). WSP 1730: 1956-57(M). WSP 1918: 1952. WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	621	525	543	320	605	557	502	466	463	146	111	330
2	572	517	555	320	625	597	546	470	422	127	119	330
3	525	484	549	320	645	598	574	472	406	128	125	330
4	501	480	519	320	650	616	539	488	384	126	129	330
5	477	482	485	330	593	591	515	510	367	123	139	330
6	485	518	390	340	530	592	527	500	349	111	139	330
7	485	490	380	350	520	594	552	496	327	105	119	312
8	494	468	410	370	520	581	555	485	381	104	171	302
9	553	471	430	395	550	592	588	589	850	103	468	290
10	519	504	450	450	600	550	610	600	854	134	408	301
11	580	481	470	500	650	585	675	552	541	146	273	307
12	665	518	485	550	650	591	810	528	487	142	218	344
13	676	508	500	600	580	570	813	381	491	176	190	349
14	580	494	475	700	500	558	672	339	403	135	171	363
15	553	501	448	800	468	608	615	357	390	131	199	367
16	536	495	418	900	479	515	653	432	356	121	265	351
17	506	476	455	930	501	556	664	422	336	111	435	341
18	529	478	440	950	524	595	626	446	349	99	594	337
19	536	483	415	950	512	577	604	442	362	94	478	327
20	541	465	400	920	551	565	664	460	336	92	440	325
21	542	450	380	890	565	519	763	565	305	94	400	330
22	541	425	380	800	449	560	747	635	293	96	370	340
23	549	440	370	700	410	515	614	510	287	93	350	350
24	550	470	360	630	382	468	613	458	276	119	340	350
25	541	525	350	580	442	482	615	449	280	148	340	360
26	531	580	350	560	511	589	606	404	275	131	320	360
27	526	544	340	550	518	610	643	390	263	118	320	370
28	495	553	340	550	531	600	579	386	241	107	320	380
29	480	544	330	550	------	550	522	413	203	109	330	390
30	523	561	330	560	------	510	486	538	175	110	330	400
31	535	------	320	580	------	500	------	516	------	103	330	------
TOTAL	16,747	14,930	13,067	18,265	15,061	17,491	18,492	14,699	11,452	3,682	8,941	10,226
MEAN	540	498	422	589	538	564	616	474	382	119	288	341
MAX	676	580	555	950	650	616	813	635	854	176	594	400
MIN	477	425	320	320	382	468	486	339	175	92	111	290
AC-FT	33,220	29,610	25,920	36,230	29,870	34,690	36,680	29,160	22,720	7,300	17,730	20,280

CAL YR 1973 TOTAL 182,004 MEAN 499 MAX 1,240 MIN 109 AC-FT 361,000
WTR YR 1974 TOTAL 163,053 MEAN 447 MAX 950 MIN 92 AC-FT 323,400

06787500 Calamus River near Burwell, Nebr.

LOCATION.--Lat 41°48'35", long 99°10'56", in NW1/4NW1/4 sec.9, T.21 N., R.16 W., Garfield County, 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.

PERIOD OF RECORD.--October 1940 to current year.

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.

AVERAGE DISCHARGE.--34 years, 300 ft³/s (8.496 m³/s), 217,400 acre-ft/yr (0.268 km³/yr).

EXTREMES.--Current year: Maximum discharge, 498 ft³/s (14.1 m³/s) June 12, gage height, 3.69 ft (1.125 m); maximum gage height, 4.36 ft (1.329 m) Jan. 3, backwater from ice; minimum daily discharge, 230 ft³/s (6.51 m³/s) Jan. 1,2.
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.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation above station. Records of chemical analyses and water temperatures for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1918: 1958. WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	399	298	315	230	323	308	298	295	302	255	263	284
2	375	296	317	230	312	321	300	288	298	255	263	288
3	365	289	320	240	324	336	294	284	298	255	263	280
4	331	292	320	240	325	337	293	284	288	255	263	280
5	311	294	314	250	323	337	295	286	280	261	263	276
6	298	300	280	250	284	325	309	290	280	263	267	273
7	293	298	270	260	291	311	311	291	271	260	264	265
8	297	302	285	270	302	307	311	281	271	255	270	268
9	293	296	304	280	296	298	311	306	381	256	348	265
10	319	297	291	290	286	293	311	312	429	264	311	269
11	330	293	296	300	290	301	327	323	442	267	295	273
12	354	302	308	325	289	307	351	308	470	270	291	280
13	350	306	300	350	286	317	381	293	491	267	284	279
14	337	295	301	380	290	323	372	275	442	265	272	277
15	335	290	301	420	293	324	367	271	387	259	272	279
16	321	293	300	450	289	316	358	271	353	259	305	271
17	315	292	300	420	294	316	350	263	326	262	369	275
18	303	290	290	400	298	315	331	271	311	256	374	271
19	298	283	260	400	298	310	322	280	293	250	324	263
20	297	280	260	397	298	311	328	288	288	247	302	267
21	298	275	270	352	302	312	338	331	280	247	293	267
22	296	280	280	363	290	308	333	336	267	248	296	267
23	292	283	270	344	293	312	312	316	263	247	284	267
24	290	294	260	323	284	319	319	302	263	256	287	267
25	298	288	260	314	282	323	317	298	263	270	279	267
26	301	293	250	311	293	320	316	298	263	265	271	263
27	297	300	250	310	298	316	316	293	260	259	267	263
28	289	303	250	312	302	316	346	288	263	259	263	263
29	291	308	240	317	------	302	325	288	263	259	273	259
30	296	314	240	326	------	291	303	320	259	247	284	259
31	296	------	240	320	------	297	------	326	------	260	284	------
TOTAL	9,765	8,824	8,742	9,974	8,335	9,729	9,745	9,156	9,545	7,998	8,944	8,125
MEAN	315	294	282	322	298	314	325	295	318	258	289	271
MAX	399	314	320	450	325	337	381	336	491	270	374	288
MIN	289	275	240	230	282	291	293	263	259	247	263	259
AC-FT	19,370	17,500	17,340	19,780	16,530	19,300	19,330	18,160	18,930	15,860	17,740	16,120

CAL YR 1973 TOTAL 113,011 MEAN 310 MAX 589 MIN 200 AC-FT 224,200
WTR YR 1974 TOTAL 108,882 MEAN 298 MAX 491 MIN 230 AC-FT 216,000

06788500 North Loup River at Ord, Nebr.

LOCATION.--Lat 41°36'27", long 98°55'17", in SW1/4NW1/4 sec.22, T.19 N., R.14 W., Valley County, 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) (revised) contributes directly to surface runoff.

PERIOD OF RECORD.--November 1936 to September 1938 (published as "near Ord"), June 1952 to current year.

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.

AVERAGE DISCHARGE.--23 years (1937-38, 1952-74), 867 ft³/s (24.55 m³/s), 628,100 acre-ft/yr (0.774 km³/yr).

EXTREMES.--Current year: Maximum discharge, 2,760 ft³/s (78.2 m³/s) June 9, gage height, 3.64 ft (1.109 m); maximum gage height, 4.52 ft (1.378 m) Jan. 21, backwater from ice; minimum daily discharge, 233 ft³/s (6.60 m³/s) July 20.
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, 150 ft³/s (4.25 m³/s) Jan. 10, 1957, Nov. 30, 1960.

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.

REVISIONS (WATER YEARS).--WSP 1730: 1957(M). WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,270	996	1,020	800	880	1,080	977	906	1,080	338	383	738
2	1,110	1,020	998	700	900	1,070	974	936	1,040	344	311	763
3	1,060	1,030	988	740	880	1,110	987	940	1,040	370	339	756
4	1,010	1,040	943	760	900	1,100	886	930	996	352	351	725
5	968	1,060	947	740	880	1,080	897	939	963	333	347	712
6	902	1,070	796	740	840	1,020	937	936	1,040	315	369	688
7	875	1,050	750	800	820	993	892	801	963	308	381	663
8	885	1,080	914	760	860	988	903	816	974	293	418	642
9	919	1,080	932	780	1,020	955	886	915	1,990	282	628	626
10	985	1,040	955	800	1,200	957	868	957	1,760	281	883	627
11	1,040	1,020	953	860	1,400	990	911	1,020	1,540	297	700	657
12	1,110	1,050	964	900	1,700	1,030	1,020	934	1,380	309	605	727
13	1,100	1,060	947	880	1,500	1,030	1,110	887	1,350	335	575	747
14	989	1,100	910	820	1,200	1,030	1,050	791	1,200	351	557	723
15	935	1,080	845	820	1,100	1,080	983	775	1,020	332	547	694
16	912	1,100	795	840	1,170	1,070	943	841	940	298	636	681
17	908	1,090	760	840	1,120	1,080	923	786	853	291	867	652
18	890	1,050	740	860	1,050	1,110	880	792	806	270	1,180	636
19	865	1,080	500	880	1,040	1,150	889	833	776	244	1,060	630
20	863	1,100	400	940	1,030	1,210	923	815	724	233	920	650
21	886	800	560	900	1,030	1,160	974	943	673	242	834	688
22	921	700	700	940	1,030	1,110	1,060	985	622	255	814	691
23	932	1,090	840	1,060	1,050	1,090	998	1,090	606	268	810	695
24	956	1,100	780	1,000	952	1,070	960	996	582	265	763	698
25	983	1,200	760	940	987	1,080	998	982	570	341	748	686
26	946	1,180	780	880	980	1,080	988	981	558	330	728	672
27	951	1,110	740	840	1,000	1,070	989	899	533	322	677	661
28	973	1,040	740	880	1,040	1,050	1,060	896	518	294	672	664
29	984	991	780	900	------	1,030	1,010	875	458	290	676	662
30	966	1,020	800	940	------	993	972	1,060	395	289	745	706
31	994	------	820	900	------	996	------	1,140	------	308	744	------
TOTAL	30,088	31,427	25,357	26,440	29,559	32,862	28,848	28,397	27,950	9,380	20,268	20,560
MEAN	971	1,048	818	853	1,056	1,060	962	916	932	303	654	685
MAX	1,270	1,200	1,020	1,060	1,700	1,210	1,110	1,140	1,990	370	1,180	763
MIN	863	700	400	700	820	955	868	775	395	233	311	626
AC-FT	59,680	62,340	50,300	52,440	58,630	65,180	57,220	56,330	55,440	18,610	40,200	40,780

CAL YR 1973 TOTAL 332,532 MEAN 911 MAX 1,690 MIN 305 AC-FT 659,600
WTR YR 1974 TOTAL 311,136 MEAN 852 MAX 1,990 MIN 233 AC-FT 617,100

06790500 North Loup River near St. Paul, Nebr.

LOCATION.--Lat 41°15'35", long 98°26'50", in NW1/4NW1/4NE1/4 sec.22, T.15 N., R.10 W., Howard County, 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) (revised) contributes directly to surface runoff.

PERIOD OF RECORD.--October 1894 to September 1915, August 1928 to current year. Monthly discharge only for some periods, published in WSP 1310.

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.

AVERAGE DISCHARGE.--67 years, 971 ft³/s (27.50 m³/s), 703,500 acre-ft/yr (0.867 km³/yr).

EXTREMES.--Current year: Maximum discharge, 3,270 ft³/s (92.6 m³/s) June 10, gage height, 4.97 ft (1.515 m); maximum gage height, 6.33 ft (1.929 m) Feb. 13, backwater from ice; minimum daily discharge, 120 ft³/s (3.40 m³/s) July 21.
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.

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. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 976: 1942. WSP 1390: 1896. WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,610	956	1,120	820	960	1,070	925	1,110	1,130	397	346	798
2	1,310	986	1,100	780	1,000	1,140	919	1,040	1,020	354	364	844
3	1,150	1,000	1,170	600	960	1,170	1,070	1,060	986	349	277	838
4	1,060	970	1,130	560	1,000	1,200	970	1,030	970	334	284	803
5	1,020	942	1,050	620	980	1,170	843	990	956	287	283	767
6	976	970	838	700	940	1,190	803	931	986	258	290	763
7	987	1,000	720	680	900	1,130	825	859	970	224	292	736
8	969	995	888	740	940	1,100	809	848	900	201	299	703
9	972	981	1,100	840	860	1,110	821	869	1,180	174	354	688
10	1,020	921	999	920	880	1,110	827	876	1,900	160	483	673
11	1,250	976	997	980	1,080	1,170	973	991	1,660	152	763	653
12	1,360	973	1,030	1,020	1,450	1,190	1,070	1,020	1,300	153	637	717
13	1,400	966	1,030	1,000	1,850	1,170	1,240	900	1,210	160	509	734
14	1,410	973	1,030	900	1,600	1,170	1,370	819	1,180	161	456	706
15	1,270	1,010	981	900	1,400	1,170	1,200	692	1,070	192	433	674
16	1,230	1,090	764	900	1,450	1,190	1,150	678	913	190	456	701
17	1,150	1,140	719	900	1,500	1,050	1,060	727	856	168	645	697
18	1,110	1,110	620	920	1,400	1,030	1,020	733	820	159	1,470	682
19	1,030	1,120	500	1,020	1,250	996	941	704	779	151	1,490	721
20	982	1,240	400	1,060	1,160	1,110	923	709	756	133	1,200	757
21	1,000	800	450	1,020	1,140	1,080	1,040	746	707	120	1,030	782
22	1,020	700	500	1,080	1,040	1,030	1,060	857	643	121	886	800
23	972	1,200	600	1,180	1,020	1,010	1,180	948	627	121	866	800
24	937	1,060	780	1,120	880	946	1,040	1,060	605	131	879	806
25	950	1,300	860	1,050	760	863	1,050	967	566	152	858	794
26	981	1,160	800	940	940	875	1,080	990	519	186	800	782
27	981	1,040	900	900	968	935	1,130	977	480	214	763	818
28	982	1,050	800	960	1,030	960	1,150	905	469	214	692	830
29	970	1,050	840	980	------	979	1,280	890	467	187	661	818
30	942	998	880	1,060	------	906	1,210	928	429	175	664	818
31	914	------	900	1,000	------	898	------	1,110	------	181	727	------
TOTAL	33,915	30,677	26,496	28,150	31,338	33,118	30,979	27,964	27,054	6,159	20,157	22,703
MEAN	1,094	1,023	855	908	1,119	1,068	1,033	902	902	199	650	757
MAX	1,610	1,300	1,170	1,180	1,850	1,200	1,370	1,110	1,900	397	1,490	844
MIN	914	700	400	560	760	863	803	678	429	120	277	653
AC-FT	67,270	60,850	52,550	55,840	62,160	65,690	61,450	55,470	53,660	12,220	39,980	45,030

CAL YR 1973 TOTAL 362,621 MEAN 993 MAX 2,270 MIN 216 AC-FT 719,300
WTR YR 1974 TOTAL 318,710 MEAN 873 MAX 1,900 MIN 120 AC-FT 632,200

06791500 Cedar River near Spalding, Nebr.

LOCATION.--Lat 41°42'41", long 98°26'48", in NE1/4NE1/4NE1/4 sec.15, T.20 N., R.10 W., Greeley County, 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.

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.

AVERAGE DISCHARGE.--26 years, 154 ft³/s (4.361 m³/s), 111,600 acre-ft/yr (0.138 km³/yr).

EXTREMES.--Current year: Maximum discharge, 299 ft³/s (8.47 m³/s) Oct. 5, gage height, 3.88 ft (1.183 m); maximum gage height, 5.31 ft (1.618 m) Jan. 23, backwater from ice; minimum daily discharge, 83 ft³/s (2.35 m³/s) July 24.
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.

REMARKS.--Records good except those for winter periods, which are poor. Low and medium flow regulated by powerplant 20 mi (32 km) above station.

REVISIONS.--WRD Nebr. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	234	129	183	110	167	136	153	129	161	119	114	140
2	226	185	162	120	189	162	126	171	143	116	130	122
3	264	176	205	140	186	186	179	175	136	90	129	164
4	266	156	200	150	167	162	152	139	176	102	107	151
5	258	145	204	120	181	194	155	127	127	110	112	116
6	204	153	165	140	125	172	159	119	147	144	117	139
7	178	167	140	130	90	147	149	142	167	100	114	117
8	193	158	145	130	145	166	162	148	159	99	122	140
9	158	161	150	140	199	152	157	107	184	100	118	151
10	182	188	160	150	186	159	128	188	246	99	190	133
11	162	163	160	150	167	190	168	171	279	85	118	119
12	179	188	140	130	140	172	120	158	189	93	131	171
13	173	165	130	130	140	170	204	172	198	89	114	149
14	134	173	110	160	135	193	179	138	245	102	116	163
15	151	168	90	170	145	156	201	149	200	98	132	145
16	164	176	110	200	160	172	153	154	191	95	101	144
17	162	175	120	190	170	186	171	166	180	97	192	136
18	171	137	110	185	185	168	153	162	136	90	170	143
19	196	164	100	180	200	161	151	148	143	104	146	132
20	128	160	110	180	210	175	168	151	142	106	156	140
21	143	150	120	175	218	183	174	150	156	107	126	138
22	143	145	130	160	199	139	146	130	139	87	110	123
23	108	209	140	160	162	181	147	206	133	90	130	127
24	181	180	150	165	194	181	164	154	135	83	128	152
25	103	186	160	170	126	150	159	135	123	109	130	145
26	166	154	170	180	232	159	150	159	145	110	117	140
27	155	177	180	175	202	169	150	144	143	138	125	130
28	148	177	170	167	164	164	155	158	121	102	100	125
29	175	180	150	168	------	165	160	124	95	107	135	110
30	141	187	150	212	------	161	169	129	106	103	120	100
31	154	------	120	194	------	156	------	137	------	98	125	------
TOTAL	5,400	5,032	4,534	4,931	4,784	5,187	4,762	4,640	4,845	3,172	3,975	4,105
MEAN	174	168	146	159	171	167	159	150	162	102	128	137
MAX	266	209	205	212	232	194	204	206	279	144	192	171
MIN	103	129	90	110	90	136	120	107	95	83	100	100
AC-FT	10,710	9,980	8,990	9,780	9,490	10,290	9,450	9,200	9,610	6,290	7,880	8,140

CAL YR 1973 TOTAL 62,088 MEAN 170 MAX 381 MIN 75 AC-FT 123,200
WTR YR 1974 TOTAL 55,367 MEAN 152 MAX 279 MIN 83 AC-FT 109,800

06792000 Cedar River near Fullerton, Nebr.

LOCATION.--Lat 41°23'45", long 98°00'15", in NE1/4NE1/4 sec.4, T.16 N., R.6 W., Nance County, 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.

PERIOD OF RECORD.--September 1931 to June 1932, October 1940 to current year.

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.

AVERAGE DISCHARGE.--34 years (1940-74), 243 ft³/s (6.882 m³/s), 176,100 acre-ft/yr (0.217 km³/yr).

EXTREMES.--Current year: Maximum discharge, 1,010 ft³/s (28.6 m³/s) June 6, gage height, 4.11 ft (1.253 m); maximum gage height, 4.69 ft (1.430 m) Jan 20, backwater from ice; minimum daily discharge, 30 ft³/s (0.85 m³/s) July 18.
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.

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.

REVISIONS (WATER YEARS).--WSP 1086: Drainage area. WSP 1390: 1932, 1941, 1943. WSP 1710: 1951(P), 1952(M), 1953, 1955(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	189	296	150	230	196	207	184	193	71	54	98
2	298	203	313	155	250	195	212	189	172	84	60	92
3	270	217	298	160	250	215	238	174	194	76	64	130
4	298	239	318	160	230	266	254	195	175	75	68	125
5	305	200	333	165	240	258	241	153	201	62	70	105
6	296	214	305	165	220	257	208	151	451	51	42	130
7	268	210	280	170	210	259	235	140	262	67	39	115
8	247	224	285	170	230	234	229	132	224	81	52	145
9	202	225	290	170	270	209	217	165	318	53	84	165
10	209	223	290	180	290	210	229	168	300	48	103	150
11	231	227	272	190	260	204	218	161	301	42	98	135
12	230	245	247	170	250	258	219	214	342	40	155	190
13	248	260	237	180	240	235	225	187	323	33	58	160
14	236	237	230	190	250	228	224	167	265	33	77	175
15	229	247	155	210	260	243	242	171	263	33	45	155
16	200	253	110	230	270	248	250	153	285	32	63	150
17	216	251	130	250	280	221	245	159	237	37	91	142
18	194	250	150	220	300	237	213	189	245	30	123	143
19	213	237	145	210	310	243	198	209	213	32	163	132
20	243	230	140	210	314	225	196	204	175	32	120	135
21	209	225	170	200	256	241	207	185	176	36	110	143
22	195	225	220	200	254	245	205	178	172	59	122	145
23	224	337	220	190	233	219	192	170	168	59	101	150
24	184	272	225	200	247	210	186	198	155	37	96	144
25	173	236	230	220	154	243	192	193	141	42	114	132
26	193	219	235	230	162	207	203	196	139	37	107	149
27	172	241	240	200	209	196	204	169	121	39	93	138
28	222	239	240	210	200	226	213	197	132	45	85	127
29	193	274	210	220	------	214	189	178	98	54	76	131
30	215	273	180	260	------	198	187	224	108	35	74	140
31	218	------	150	250	------	203	------	212	------	33	82	------
TOTAL	7,127	7,122	7,144	6,085	6,869	7,043	6,478	5,565	6,549	1,488	2,689	4,171
MEAN	230	237	230	196	245	227	216	180	218	48.0	86.7	139
MAX	305	337	333	260	314	266	254	224	451	84	163	190
MIN	172	189	110	150	154	195	186	132	98	30	39	92
AC-FT	14,140	14,130	14,170	12,070	13,620	13,970	12,850	11,040	12,990	2,950	5,330	8,270

CAL YR 1973 TOTAL 95,088 MEAN 261 MAX 583 MIN 50 AC-FT 188,600
WTR YR 1974 TOTAL 68,330 MEAN 187 MAX 451 MIN 30 AC-FT 135,500

PEAK DISCHARGE (BASE, 1,500 FT³/S).--No peak above base.

06792500 Loup River power canal near Genoa, Nebr.

LOCATION.--Lat 41°25'03", long 97°47'37", in NE1/4NE1/4 sec.32, T.17 N., R.4 W., Nance County, 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.

EXTREMES.--Current year: Maximum daily discharge, 2,990 ft³/s (84.7 m³/s) June 11; minimum daily, 32 ft³/s (0.91 m³/s) Dec. 16.
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.

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,870	2,260	2,690	1,570	2,170	2,700	2,180	2,030	1,960	630	377	1,000
2	2,870	2,500	2,640	1,070	2,160	2,630	2,160	1,820	1,980	635	565	1,040
3	2,790	2,410	2,620	1,070	2,140	2,570	2,320	1,730	1,860	569	675	1,060
4	2,700	2,570	1,320	987	2,150	2,640	2,710	1,720	1,710	570	642	1,090
5	2,250	2,440	88	981	2,150	2,710	2,560	1,710	1,590	521	600	1,040
6	2,370	2,550	76	749	2,150	2,680	2,530	1,720	2,220	500	530	1,000
7	2,000	2,440	51	1,120	2,110	2,580	2,330	1,590	2,060	454	493	1,010
8	1,880	2,480	461	933	2,000	2,510	2,420	1,540	1,950	432	512	922
9	1,830	2,410	963	424	1,910	2,480	2,310	1,620	2,310	361	575	878
10	2,040	2,410	100	583	1,770	2,580	2,290	1,700	2,900	348	629	864
11	2,640	2,240	819	614	1,860	2,580	2,290	1,860	2,990	320	756	873
12	2,800	2,280	1,590	619	2,110	2,700	2,510	2,020	2,960	287	1,040	930
13	2,760	2,170	325	890	2,070	2,720	2,610	1,990	2,830	258	897	1,050
14	2,730	2,270	50	1,380	2,020	2,660	2,720	1,820	2,590	261	817	1,230
15	2,620	2,270	36	1,780	2,010	2,670	2,580	1,700	2,500	271	684	1,250
16	2,560	2,440	32	1,960	2,030	2,700	2,480	1,410	2,220	289	753	1,230
17	2,460	2,370	41	2,120	2,030	2,690	2,420	1,440	1,980	273	854	1,220
18	2,360	2,420	44	2,190	2,000	2,520	2,360	1,570	1,840	270	1,190	1,170
19	2,330	2,430	36	2,210	1,800	2,380	2,310	1,600	1,720	241	1,840	1,100
20	2,420	2,080	284	2,200	1,860	2,460	2,230	1,550	1,620	230	1,680	1,090
21	2,350	244	604	2,170	1,860	2,630	2,280	1,630	1,540	225	1,530	1,140
22	2,330	508	830	2,160	1,400	2,470	2,390	1,580	1,490	310	1,430	1,150
23	2,320	149	1,000	2,120	1,470	2,050	2,470	1,730	1,420	259	1,190	1,200
24	2,310	2,510	1,150	2,140	93	1,740	2,240	1,900	1,270	232	1,110	1,270
25	2,310	1,590	1,300	2,140	595	2,420	1,980	2,020	1,140	219	1,130	1,160
26	2,420	2,620	1,490	2,130	1,880	2,240	1,800	1,950	1,040	221	1,100	1,170
27	2,280	2,640	1,760	2,130	2,520	2,170	1,650	2,230	985	241	983	1,120
28	2,390	2,150	2,050	2,160	2,670	2,230	1,810	1,980	912	325	929	1,170
29	2,360	2,630	2,180	2,150	------	2,160	2,220	1,810	825	366	880	1,160
30	2,310	2,690	2,030	2,180	------	2,300	2,460	1,830	793	314	908	1,130
31	2,280	------	1,940	2,140	------	2,050	------	1,840	------	282	939	------
TOTAL	74,940	65,171	30,600	49,070	52,988	76,620	69,820	54,640	55,205	10,714	28,238	32,717
MEAN	2,417	2,172	987	1,583	1,892	2,472	2,327	1,763	1,840	346	911	1,091
MAX	2,870	2,690	2,690	2,210	2,670	2,720	2,720	2,230	2,990	635	1,840	1,270
MIN	1,830	149	32	424	93	1,740	1,800	1,410	793	219	377	864
AC-FT	148,600	129,300	60,700	97,330	105,100	152,000	138,500	108,400	109,500	21,250	56,010	64,890

CAL YR 1973 TOTAL 680,359 MEAN 1,864 MAX 2,930 MIN 32 AC-FT 1,349,000
WTR YR 1974 TOTAL 600,723 MEAN 1,646 MAX 2,990 MIN 32 AC-FT 1,192,000

06793000 Loup River near Genoa, Nebr.

LOCATION.--Lat 41°25'05", long 97°43'25", in SW1/4NE1/4 sec.25, T.17 N., R.4 W., Nance County, on right bank on downstream side of 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) ,revised, 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).

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 and Apr. 26 to Dec. 22, 1949, at present datum.

EXTREMES.--Current year: Maximum discharge, 10,000 ft³/s (283 m³/s) June 10, gage height, 7.96 ft (2.426 m); maximum gage height, 9.12 ft (2.780 m) Feb. 15, backwater from ice; no flow for many days.
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.

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 6 mi (10 km) upstream and returns to Platte River below mouth of Loup River; diversion began Dec. 2, 1936. (See preceding page.)

REVISIONS.--WSP 1086: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,730	36	238	110	1,000	148	126	55	13	1.2	0	0
2	1,060	40	147	500	1,150	128	168	49	15	.78	0	0
3	110	33	189	400	1,100	117	199	49	19	3.9	0	11
4	79	37	1,500	450	1,200	111	503	44	7.9	1.1	0	31
5	53	26	1,300	450	1,150	123	257	31	11	.35	0	40
6	59	25	1,200	650	1,100	86	222	27	26	0	0	40
7	45	33	1,900	200	1,000	70	110	13	14	0	0	20
8	43	33	1,700	400	1,050	73	165	11	15	0	0	31
9	102	61	830	900	1,100	67	93	12	28	0	0	40
10	51	61	1,400	700	1,100	69	82	12	5,780	0	0	41
11	647	60	1,000	700	1,200	78	97	15	2,430	0	0	42
12	613	35	200	700	1,250	53	167	10	948	0	0	42
13	289	44	1,400	400	1,350	57	239	10	364	0	0	43
14	186	69	1,600	100	1,400	49	484	8.9	18	0	0	42
15	27	75	1,500	200	1,500	54	408	8.8	14	0	0	38
16	26	52	1,400	300	1,500	61	146	9.4	11	0	0	42
17	25	38	1,300	450	1,500	58	90	7.7	9.5	0	2.1	32
18	24	35	800	500	1,500	71	51	10	9.8	0	2.3	30
19	24	35	500	550	1,600	120	21	8.3	8.8	0	5.6	30
20	24	323	260	600	1,700	109	59	6.1	7.8	0	8.7	34
21	23	2,160	200	620	1,800	146	50	6.6	6.8	0	6.3	28
22	23	1,300	190	600	2,200	170	75	4.8	5.3	0	5.4	21
23	23	1,300	180	620	2,000	486	100	4.3	5.2	0	3.5	26
24	24	929	180	680	2,900	790	67	4.3	3.9	0	1.7	7.8
25	24	1,650	170	720	2,400	132	36	5.0	2.7	0	1.2	0
26	24	185	170	700	1,100	91	44	6.4	2.0	0	.07	0
27	25	413	165	700	596	92	58	8.8	1.6	0	0	0
28	27	800	150	780	219	137	43	5.8	1.9	0	0	0
29	27	266	140	860	------	142	129	4.8	1.6	0	0	0
30	27	214	130	1,100	------	113	111	6.1	1.3	0	.53	0
31	36	------	120	1,050	------	76	------	4.1	------	0	.06	------
TOTAL	6,500	10,868	22,159	17,690	38,665	4,077	4,400	458.2	9,782.1	7.33	37.46	711.8
MEAN	210	362	715	571	1,381	132	147	14.8	326	.24	1.21	23.7
MAX	2,730	2,160	1,900	1,100	2,900	790	503	55	5,780	3.9	8.7	43
MIN	23	25	120	100	219	49	21	4.1	1.3	0	0	0
AC-FT	12,890	21,560	43,950	35,090	76,690	8,090	8,730	909	19,400	15	74	1,410

CAL YR 1973 TOTAL 228,273.47 MEAN 625 MAX 6,890 MIN 0 AC-FT 452,800
WTR YR 1974 TOTAL 115,355.89 MEAN 316 MAX 5,780 MIN 0 AC-FT 228,800

06794000 Beaver Creek at Genoa, Nebr.

LOCATION.--Lat 41°26'32", long 97°44'11", in NE1/4SE1/4 sec.14, T.17 N., R.4 W., Nance County, 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.

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.

AVERAGE DISCHARGE.--34 years, 127 ft³/s (3.597 m³/s), 92,010 acre-ft/yr (0.113 km³/yr).

EXTREMES.--Current year: Maximum discharge, 710 ft³/s (20.1 m³/s) June 6, gage height, 5.78 ft (1.762 m); maximum gage height, 6.55 ft (1.996 m) Jan. 19, backwater from ice; minimum daily discharge, 0.41 ft³/s (0.012 m³/s) July 25.
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.

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.

REVISIONS (WATER YEARS).--WSP 1310: 1942(M). WRD Nebr. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	227	81	113	82	125	135	101	89	91	52	4.0	27
2	167	75	121	80	110	134	99	87	88	43	4.2	30
3	129	75	124	86	100	138	104	85	85	36	8.0	34
4	113	76	119	86	102	140	102	84	83	30	7.1	34
5	101	76	118	84	108	139	108	84	83	27	7.4	36
6	97	81	93	86	102	135	110	83	268	24	7.7	36
7	96	86	78	90	100	131	141	82	249	19	8.4	36
8	96	87	88	88	95	132	139	80	111	18	5.0	38
9	99	87	92	92	96	122	130	84	179	17	14	40
10	96	87	84	90	100	112	121	89	346	16	21	38
11	104	90	88	86	106	115	115	102	216	15	29	38
12	95	91	94	80	108	118	112	99	218	14	29	39
13	95	93	90	84	110	130	116	109	187	13	23	41
14	103	97	82	88	100	132	112	101	187	12	22	45
15	95	94	80	92	102	133	103	89	184	11	14	48
16	90	91	78	96	104	128	101	86	149	10	20	45
17	87	91	74	98	104	126	104	92	122	9.0	27	44
18	87	93	70	120	106	128	105	98	116	8.0	39	43
19	89	93	74	150	110	124	104	100	108	7.0	40	42
20	88	122	82	200	110	121	103	94	102	5.0	47	42
21	88	105	90	150	108	98	100	90	98	3.0	42	41
22	87	100	108	130	108	97	97	84	93	5.0	39	42
23	86	113	100	120	102	97	98	80	90	2.0	35	43
24	84	128	96	125	90	100	89	73	86	1.0	32	44
25	80	114	98	130	99	96	87	74	81	.41	30	44
26	74	113	100	125	110	98	98	96	80	.50	30	44
27	78	119	102	120	139	100	92	115	78	.80	29	45
28	74	114	104	110	130	101	91	94	70	1.0	26	43
29	78	119	102	120	------	103	101	89	64	1.2	23	43
30	80	113	90	130	------	104	93	105	55	1.4	26	44
31	78	------	80	140	------	105	------	89	------	1.6	25	------
TOTAL	3,041	2,904	2,912	3,358	2,984	3,672	3,176	2,806	3,967	403.91	713.8	1,209
MEAN	98.1	96.8	93.9	108	107	118	106	90.5	132	13.0	23.0	40.3
MAX	227	128	124	200	139	140	141	115	346	52	47	48
MIN	74	75	70	80	90	96	87	73	55	.41	4.0	27
AC-FT	6,030	5,760	5,780	6,660	5,920	7,280	6,300	5,570	7,870	801	1,420	2,400

CAL YR 1973 TOTAL 48,125.00 MEAN 132 MAX 1,010 MIN 23 AC-FT 95,460
WTR YR 1974 TOTAL 31,146.71 MEAN 85.3 MAX 346 MIN .41 AC-FT 61,780

PEAK DISCHARGE (BASE, 1,100 FT³/S).--No peak above base.

06794500 Loup River at Columbus, Nebr.

LOCATION.--Lat 41°25'05", long 97°21'45", in SE1/4NW1/4 sec.30, T.17 N., R.1 E., Platte County, on left bank 1,250 ft (381 m) downstream from bridge on U.S. Highway 30 at Columbus, 3.5 mi (5.6 km) upstream from mouth, and 14 mi (23 km) downstream from Looking-glass Creek.

DRAINAGE AREA.--15,200 mi² (39,400 km²), approximately, of which about 6,230 mi² (16,100 km²) ,revised, 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.

GAGE.--Water-stage recorder. Datum of gage is 1,428.29 ft (435.343 m) above mean sea level, unadjusted. See WRD Nebr. 1969 for history of changes prior to June 15, 1967.

EXTREMES.--Current year: Maximum discharge, 8,100 ft³/s (229 m³/s) June 10, gage height, 6.14 ft (1.871 m); maximum gage height observed, 6.70 ft (2.042 m) Jan. 10, backwater from ice; minimum daily discharge, 9.4 ft³/s (0.27 m³/s) July 30.
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, 9.4 ft³/s (0.27 m³/s) July 30, 1974.

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. (See sta 06792500.)

REVISIONS (WATER YEARS).--WSP 956: 1937-41. WSP 1086: Drainage area. WSP 1390: 1895, 1897, 1900-1901, 1915, 1941(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,980	156	318	210	1,200	430	360	243	160	80	20	34
2	1,520	156	342	600	1,350	400	450	186	179	77	18	43
3	594	160	318	500	1,250	326	600	169	189	77	17	46
4	288	160	648	550	1,500	296	935	181	196	74	15	47
5	251	163	2,480	550	1,400	260	845	167	186	72	17	71
6	243	160	2,380	640	1,350	290	740	161	278	65	15	86
7	252	163	1,780	300	1,200	200	510	151	424	60	14	87
8	238	175	1,650	500	1,250	199	450	141	319	56	14	78
9	277	185	386	1,000	1,300	215	460	149	417	52	43	80
10	420	210	1,100	800	1,300	185	308	217	3,240	50	41	102
11	399	205	1,200	800	1,400	270	320	281	2,710	43	37	106
12	1,260	215	630	800	1,450	285	332	185	1,780	37	36	116
13	622	180	979	500	1,550	263	499	166	768	33	35	119
14	590	215	1,700	200	1,600	273	717	165	584	30	34	114
15	358	225	1,600	300	1,700	274	932	161	239	26	33	92
16	265	215	1,500	500	1,700	255	636	160	174	24	54	79
17	235	179	1,400	700	1,700	284	411	158	145	18	50	87
18	215	169	900	740	1,700	295	325	212	121	17	52	81
19	200	169	600	800	1,850	321	270	254	102	15	46	75
20	190	342	350	820	1,950	408	250	217	102	15	45	78
21	180	2,520	300	840	2,100	580	261	187	98	15	44	86
22	180	1,700	290	800	2,400	611	240	170	94	28	44	81
23	175	1,370	280	820	2,200	703	266	153	94	24	44	62
24	180	1,680	280	880	3,100	1,330	305	154	94	17	43	81
25	180	1,160	270	920	2,600	608	277	163	90	14	41	59
26	175	542	270	900	1,300	350	245	166	87	12	37	55
27	163	622	270	900	630	370	239	170	85	11	33	55
28	160	970	265	980	490	440	227	185	82	11	30	53
29	156	407	250	1,060	------	510	191	155	82	10	30	56
30	149	330	230	1,300	------	510	272	231	80	9.4	29	55
31	146	------	220	1,250	------	490	------	196	------	11	30	------
TOTAL	14,241	15,103	25,186	22,460	44,520	12,231	12,873	5,654	13,199	1,083.4	1,041	2,264
MEAN	459	503	812	725	1,590	395	429	182	440	34.9	33.6	75.5
MAX	3,980	2,520	2,480	1,300	3,100	1,330	935	281	3,240	80	54	119
MIN	146	156	220	200	490	185	191	141	80	9.4	14	34
AC-FT	28,250	29,960	49,960	44,550	88,310	24,260	25,530	11,210	26,180	2,150	2,060	4,490

CAL YR 1973 TOTAL 305,849.0 MEAN 838 MAX 6,550 MIN 62 AC-FT 606,700
WTR YR 1974 TOTAL 169,855.4 MEAN 465 MAX 3,980 MIN 9.4 AC-FT 336,900

06795500 Shell Creek near Columbus, Nebr.

LOCATION.--Lat 41°31'33", long 97°16'55", in NE1/4NW1/4 sec.23, T.18 N., R.1 E., Platte County, on right bank 80 ft (24 m) upstream from county road bridge, 1 mi (2 km) upstream from Loseke Creek, and 7 mi (11 km) northeast of Columbus.

DRAINAGE AREA.--270 mi² (700 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 1,435 ft (437.4 m), from topographic map.

AVERAGE DISCHARGE.--27 years, 43.0 ft³/s (1.218 m³/s), 31,150 acre-ft/yr (38.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 206 ft³/s (5.83 m³/s) June 11, gage height, 5.77 ft (1.759 m); maximum gage height, 9.89 ft (3.014 m) Jan. 20, backwater from ice; minimum daily discharge, 1.7 ft³/s (0.048 m³/s) July 30.
Period of record: Maximum discharge, 5,970 ft³/s (169 m³/s) June 3, 1950, gage height, 21.38 ft (6.517 m); minimum daily, 0.4 ft³/s (0.011 m³/s) July 27, 1954.
Flood of June 2, 1947, reached a stage of 21.7 ft (6.61 m), from floodmark, discharge, 4,600 ft³/s (130 m³/s).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	12	23	13	100	26	17	14	17	10	3.3	6.6
2	27	12	23	13	54	25	17	14	15	9.7	2.8	5.6
3	21	11	22	13	34	27	19	13	13	7.8	4.7	4.4
4	19	11	22	14	29	28	22	13	12	5.6	4.0	4.3
5	16	12	22	14	28	28	26	13	12	4.8	3.6	4.2
6	13	12	22	14	28	28	39	14	13	4.6	2.2	4.0
7	12	12	22	14	25	24	37	13	21	5.0	2.8	3.7
8	12	12	19	14	27	22	32	13	117	3.8	3.0	3.4
9	18	12	17	15	29	21	28	13	40	3.4	7.8	3.5
10	49	12	16	15	32	21	23	18	58	2.8	7.0	3.4
11	72	13	16	15	35	21	23	36	159	3.3	8.6	3.7
12	114	13	16	15	40	21	22	26	57	3.9	6.6	4.3
13	68	14	16	16	43	25	25	22	31	2.4	5.1	4.0
14	30	14	15	16	60	24	25	17	22	2.5	4.9	3.4
15	19	14	14	16	46	24	22	17	19	2.9	5.1	4.6
16	14	13	14	16	40	24	21	16	17	3.6	9.4	4.1
17	12	14	14	16	48	23	19	16	16	2.8	8.2	4.0
18	11	14	13	16	43	21	18	17	15	3.3	9.4	4.2
19	10	14	14	50	39	21	18	21	14	4.2	8.2	4.8
20	10	22	15	140	36	21	17	25	15	2.8	6.5	3.0
21	10	75	19	100	31	20	17	29	15	2.3	6.1	2.9
22	11	79	18	88	28	20	19	22	14	2.6	5.0	3.3
23	11	52	18	74	25	19	18	18	14	2.9	4.2	3.7
24	11	40	18	62	22	18	16	15	12	2.5	4.1	4.4
25	10	39	18	50	30	19	16	14	12	2.9	4.0	4.4
26	10	47	18	44	37	20	16	14	12	3.2	3.6	4.0
27	12	39	18	38	30	20	16	22	12	2.6	3.6	3.8
28	11	48	17	34	30	20	16	35	11	2.0	4.5	3.3
29	12	34	16	48	------	20	15	17	12	2.5	4.1	3.2
30	12	24	15	62	------	20	15	15	9.5	1.7	3.7	3.0
31	11	------	14	80	------	19	------	15	------	2.5	3.6	------
TOTAL	706	740	544	1,135	1,049	690	634	567	806.5	116.9	159.7	119.2
MEAN	22.8	24.7	17.5	36.6	37.5	22.3	21.1	18.3	26.9	3.77	5.15	3.97
MAX	114	79	23	140	100	28	39	36	159	10	9.4	6.6
MIN	10	11	13	13	22	19	15	13	9.5	1.7	2.2	2.9
AC-FT	1,400	1,470	1,080	2,250	2,080	1,370	1,260	1,120	1,600	232	317	236

CAL YR 1973 TOTAL 22,835.9 MEAN 62.6 MAX 2,020 MIN 5.1 AC-FT 45,300
WTR YR 1974 TOTAL 7,267.3 MEAN 19.9 MAX 159 MIN 1.7 AC-FT 14,410

PEAK DISCHARGE (BASE, 700 FT³/S).--No peak above base.

06796000 Platte River at North Bend, Nebr.

LOCATION.--Lat 41°27'10", long 96°45'50", in SE1/4 sec.7, T.17 N., R.6 E., Dodge County, on left bank 30 ft (9 m) upstream from bridge on State Highway 79, 1 mi (2 km) south of North Bend, and 5 mi (8 km) downstream from Shell Creek.

DRAINAGE AREA.--81,100 mi² (210,000 km²), approximately, of which about 63,300 mi² (163,900 km²) contributes directly to surface runoff.

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

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.

AVERAGE DISCHARGE.--25 years, 4,081 ft³/s (115.6 m³/s), 2,957,000 acre-ft/yr (3.65 km³/yr).

EXTREMES.--Current year: Maximum discharge, about 21,000 ft³/s (595 m³/s) Feb. 17, gage height, 8.6 ft (2.62 m), from graph based on partial record, backwater from ice; minimum daily 36 ft³/s (1.02 m³/s) July 29.

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.

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. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13,900	7,720	8,080	3,500	8,400	8,780	10,100	8,590	2,690	1,320	199	1,080
2	12,100	7,090	7,980	3,800	8,500	8,530	9,970	7,380	2,630	1,440	385	922
3	11,100	7,000	8,480	3,600	8,600	8,200	10,900	6,820	2,810	734	611	1,160
4	11,000	6,170	8,090	3,500	9,000	7,840	10,800	6,520	2,790	767	1,540	1,340
5	10,600	6,500	7,000	3,700	9,800	8,760	12,000	5,970	2,650	976	889	1,080
6	10,500	6,460	6,400	3,900	9,200	8,610	11,400	5,830	2,280	433	253	1,140
7	9,890	6,400	5,800	3,800	8,600	8,320	11,600	5,750	3,580	508	312	1,810
8	9,590	6,520	6,000	3,900	8,400	8,500	10,400	5,290	3,300	563	258	988
9	9,540	6,830	5,800	3,800	8,200	8,090	11,400	5,120	3,300	312	440	1,030
10	11,800	7,040	5,400	4,000	8,200	8,290	10,700	5,610	4,440	364	1,250	1,050
11	14,100	6,870	5,600	3,800	8,600	8,530	10,600	8,780	9,380	394	988	774
12	14,500	6,610	5,400	3,900	9,000	8,680	10,800	8,620	6,550	391	740	240
13	12,900	8,100	5,200	4,000	11,000	8,660	11,400	7,020	6,330	310	1,300	1,390
14	12,200	6,840	4,900	4,500	14,000	9,000	11,200	6,170	4,460	260	1,470	1,750
15	10,900	5,210	4,100	5,600	16,000	9,510	11,600	4,680	4,920	210	675	1,930
16	10,600	7,040	4,300	7,600	17,000	9,350	12,000	4,300	4,690	195	810	2,320
17	9,880	6,900	4,100	7,400	18,000	9,530	11,200	3,470	3,790	185	1,300	1,840
18	10,100	6,750	3,000	7,200	16,000	9,550	11,300	5,510	3,730	180	1,840	2,290
19	9,300	6,960	2,100	7,600	13,000	9,430	10,700	6,410	3,310	180	2,320	1,960
20	9,280	8,980	1,800	7,800	11,000	8,940	10,700	6,000	2,930	175	3,800	988
21	8,960	10,400	1,700	7,600	9,600	9,280	11,000	6,400	3,050	175	3,160	1,570
22	8,660	9,470	1,900	7,600	8,810	9,070	10,500	5,940	2,680	170	3,720	1,420
23	8,740	7,810	2,500	8,000	9,420	10,300	9,990	3,700	2,000	170	1,810	864
24	8,660	9,360	3,500	8,200	7,450	10,000	10,000	3,290	1,750	193	2,080	1,270
25	8,560	8,760	5,400	8,800	7,220	11,800	9,790	3,460	2,040	187	1,960	1,520
26	8,120	9,060	5,200	8,400	6,990	10,600	9,000	3,520	1,640	253	2,050	1,230
27	7,870	8,760	5,400	8,200	8,230	9,890	9,250	3,020	1,820	199	1,420	1,230
28	8,020	9,090	5,600	8,000	8,660	10,200	8,500	4,080	1,720	70	1,100	1,210
29	8,090	8,640	5,000	8,200	------	10,500	7,760	3,580	1,510	36	944	1,140
30	7,490	8,400	4,400	8,600	------	8,420	8,000	2,310	1,400	83	1,120	1,010
31	7,050	------	4,000	8,400	------	10,400	------	2,570	------	386	1,630	------
TOTAL	314,000	227,740	154,130	186,900	286,880	285,560	314,560	165,710	100,170	11,819	42,374	39,546
MEAN	10,130	7,591	4,972	6,029	10,250	9,212	10,490	5,345	3,339	381	1,367	1,318
MAX	14,500	10,400	8,480	8,800	18,000	11,800	12,000	8,780	9,380	1,440	3,800	2,320
MIN	7,050	5,210	1,700	3,500	6,990	7,840	7,760	2,310	1,400	36	199	240
AC-FT	622,800	451,700	305,700	370,700	569,000	566,400	623,900	328,700	198,700	23,440	84,050	78,440

CAL YR 1973 TOTAL 2,883,271 MEAN 7,899 MAX 32,200 MIN 694 AC-FT 5,719,000
WTR YR 1974 TOTAL 2,129,389 MEAN 5,834 MAX 18,000 MIN 36 AC-FT 4,224,000

06797500 Elkhorn River at Ewing, Nebr.

LOCATION.--Lat 42°16'03", long 98°20'11", in NW1/4SW1/4 sec.35, T.27 N., R.9 W., Holt County, 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.

AVERAGE DISCHARGE.--27 years, 178 ft³/s (5.041 m³/s), 129,000 acre-ft/yr (0.159 km³/yr); median of yearly mean discharges, 120 ft³/s (3.398 m³/s), 86,900 acre-ft/yr (0.107 km³/yr).

EXTREMES.--Current year: Maximum discharge, 285 ft³/s (8.07 m³/s) Mar. 5, gage height, 4.15 ft (1.265 m); maximum gage height, 4.62 ft (1.408 m) Feb. 1, backwater from ice; minimum daily discharge, 8.5 ft³/s (0.24 m³/s) July 30.
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, 5.7 ft³/s (0.16 m³/s) Aug. 25, 1968.
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).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	84	124	44	200	189	158	104	95	44	23	17
2	123	82	118	44	210	207	150	101	96	40	20	18
3	111	82	110	48	180	231	157	98	91	43	19	19
4	102	83	96	49	190	256	151	95	82	41	16	19
5	93	85	70	52	185	278	143	93	74	38	14	18
6	89	86	45	52	180	274	179	88	69	33	13	17
7	84	88	58	52	160	259	210	87	62	31	12	17
8	81	85	84	52	165	244	214	84	62	29	20	15
9	87	84	100	52	175	223	208	95	136	29	22	14
10	92	87	96	52	190	204	186	104	228	27	19	13
11	110	88	100	54	200	198	180	140	256	27	19	12
12	135	89	96	56	210	200	193	130	257	25	18	18
13	136	89	92	56	200	200	223	114	249	26	17	20
14	132	87	88	62	190	198	244	104	246	24	15	21
15	127	90	86	70	190	197	234	97	244	23	17	21
16	122	91	86	88	185	190	231	93	224	22	17	21
17	120	91	106	130	190	181	226	89	201	19	22	21
18	117	86	112	180	208	176	216	88	180	18	25	19
19	113	83	114	210	228	168	201	92	157	16	23	18
20	109	83	104	200	208	173	186	93	138	14	20	16
21	106	57	108	200	209	175	177	100	124	13	23	16
22	103	75	110	210	200	176	162	97	108	12	28	15
23	99	93	108	200	160	175	151	89	96	11	23	16
24	98	117	108	195	107	165	143	81	84	11	20	15
25	96	122	108	190	125	159	136	77	74	11	18	14
26	95	120	108	190	173	165	132	77	66	11	16	15
27	95	117	106	195	201	165	126	75	60	10	16	14
28	89	114	98	200	189	170	120	76	56	9.0	15	14
29	88	117	84	210	------	174	114	80	51	9.3	15	14
30	88	122	72	190	------	169	108	86	48	8.5	16	13
31	85	------	52	195	------	166	------	89	------	13	16	------
TOTAL	3,270	2,777	2,947	3,778	5,208	6,105	5,259	2,916	3,914	687.8	577	500
MEAN	105	92.6	95.1	122	186	197	175	94.1	130	22.2	18.6	16.7
MAX	145	122	124	210	228	278	244	140	257	44	28	21
MIN	81	57	45	44	107	159	108	75	48	8.5	12	12
AC-FT	6,490	5,510	5,850	7,490	10,330	12,110	10,430	5,780	7,760	1,360	1,140	992

CAL YR 1973 TOTAL 75,154.0 MEAN 206 MAX 1,330 MIN 11 AC-FT 149,100
WTR YR 1974 TOTAL 37,938.8 MEAN 104 MAX 278 MIN 8.5 AC-FT 75,250

PEAK DISCHARGE (BASE, 500 FT³/S).--No peak above base.

06798500 Elkhorn River at Neligh, Nebr.

LOCATION.--Lat 42°07'20", long 98°01'40", in sec.20, T.25 N., R.6 W., Antelope County, on right bank 10 ft (3 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.

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 30 ft (9 m) downstream at present datum. Apr. 16, 1933, to Jan. 23, 1939, nonrecording gage at bridge 10 ft (3 m) upstream at present datum.

AVERAGE DISCHARGE.--42 years, 284 ft³/s (8.043 m³/s), 205,800 acre-ft/yr (0.254 km³/yr); median of yearly mean discharges, 230 ft³/s (6.514 m³/s), 167,000 acre-ft/yr (0.206 km³/yr).

EXTREMES.--Current year: Maximum discharge, 704 ft³/s (19.9 m³/s) June 10, gage height, 4.79 ft (1.460 m); maximum gage height 5.19 ft (1.582 m) Jan. 23, backwater from ice; minimum daily discharge, 36 ft³/s (1.02 m³/s) July 24,30.

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.

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).

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

REVISIONS (WATER YEARS).--WSP 1006: 1935, 1942. WSP 1390: 1931-32, 1937(M). WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	352	200	294	110	480	404	328	213	210	111	63	83
2	324	198	290	110	540	428	312	206	210	102	63	90
3	288	196	280	125	380	452	312	197	210	112	65	89
4	258	198	230	130	400	464	308	194	200	122	63	85
5	246	201	190	135	370	484	328	191	218	107	60	80
6	225	201	130	140	350	484	328	186	218	93	59	78
7	219	201	150	140	310	456	368	180	193	86	56	79
8	213	201	170	135	320	436	404	181	181	82	82	76
9	204	198	180	150	340	412	408	219	368	81	149	74
10	200	192	190	155	352	384	388	243	662	76	111	70
11	205	195	200	155	380	388	376	300	672	75	93	71
12	220	198	200	160	408	392	380	297	661	71	85	81
13	260	203	190	165	428	384	368	268	620	65	84	96
14	273	205	185	170	412	384	436	247	547	60	86	94
15	270	208	180	180	412	384	464	230	473	58	87	87
16	260	207	180	240	460	356	440	220	420	59	90	83
17	250	218	200	350	488	344	420	208	376	55	98	81
18	245	215	210	460	432	348	400	210	349	52	117	76
19	240	211	200	520	464	340	376	219	298	47	102	71
20	235	239	180	500	456	340	344	210	252	45	91	67
21	230	226	190	500	444	340	324	212	229	42	85	71
22	225	270	200	520	412	344	288	214	199	41	89	72
23	220	281	210	500	372	328	269	199	181	38	91	71
24	215	266	210	500	304	324	257	188	171	36	87	68
25	213	274	210	500	251	324	251	180	168	45	86	65
26	207	286	210	520	320	328	254	178	159	54	79	63
27	205	284	200	540	352	328	260	187	142	42	95	62
28	207	283	190	560	388	344	246	200	129	39	90	60
29	203	283	170	580	------	356	230	210	120	38	85	64
30	206	290	150	520	------	344	222	220	116	36	84	66
31	204	------	125	490	------	340	------	210	------	45	79	------
TOTAL	7,322	6,828	6,094	9,960	11,025	11,764	10,089	6,617	8,952	2,015	2,654	2,273
MEAN	236	228	197	321	394	379	336	213	298	65.0	85.6	75.8
MAX	352	290	294	580	540	484	464	300	672	122	149	96
MIN	200	192	125	110	251	324	222	178	116	36	56	60
AC-FT	14,520	13,540	12,090	19,760	21,870	23,330	20,010	13,120	17,760	4,000	5,260	4,510

CAL YR 1973 TOTAL 138,211 MEAN 379 MAX 2,200 MIN 64 AC-FT 274,100
WTR YR 1974 TOTAL 85,593 MEAN 235 MAX 672 MIN 36 AC-FT 169,800

PEAK DISCHARGE (BASE, 1,000 FT³/S).--No peak above base.

06799000 Elkhorn River near Norfolk, Nebr.

LOCATION.--Lat 42°00'20", long 97°28'40", in SW1/4 sec.31, T.24 N., R.1 W., Madison County, 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.

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.

AVERAGE DISCHARGE.--29 years, 512 ft³/s (14.50 m³/s), 370,900 acre-ft/yr (0.457 km³/yr); median of yearly mean discharges, 420 ft³/s (11.89 m³/s), 304,000 acre-ft/yr (0.375 km³/yr).

EXTREMES.--Current year: Maximum discharge, 1,430 ft³/s (40.5 m³/s) June 6, gage height, 3.66 ft (1.116 m); maximum gage height, 4.89 ft (1.490 m) Jan. 19, backwater from ice; minimum daily discharge, 62 ft³/s (1.76 m³/s) July 30.
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, 50 ft³/s (1.42 m³/s) Aug. 26, 1968.
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).

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

REVISIONS (WATER YEARS).--WSP 1390: 1898-1900. WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	481	299	401	190	680	576	545	300	328	181	74	119
2	448	295	380	190	720	606	544	296	327	169	77	123
3	420	299	360	210	620	636	574	292	330	162	88	129
4	396	300	320	210	640	661	563	288	321	161	83	129
5	390	305	270	215	620	738	533	288	320	164	84	125
6	360	309	210	220	580	786	552	284	1,100	147	83	119
7	343	323	220	220	500	735	549	288	385	140	81	120
8	338	370	260	215	500	706	542	288	309	134	85	126
9	350	381	280	210	520	736	570	300	536	126	170	126
10	339	376	300	215	540	691	615	314	764	122	196	126
11	360	369	310	215	580	632	615	358	906	119	159	119
12	403	365	310	220	620	613	615	376	870	116	139	133
13	413	350	300	230	580	567	606	376	888	113	131	148
14	408	357	290	260	580	546	579	354	870	106	134	148
15	397	361	290	300	580	530	606	340	732	101	135	148
16	376	366	300	410	620	536	660	332	596	97	140	144
17	355	366	310	520	660	503	642	322	548	90	157	136
18	342	363	320	700	640	492	579	333	490	79	175	130
19	330	352	300	760	618	487	521	321	430	72	160	126
20	325	418	280	720	648	486	500	315	372	69	153	126
21	311	445	280	720	614	481	464	302	350	68	137	126
22	309	364	290	760	574	505	435	286	327	66	131	130
23	306	370	310	740	558	501	420	283	304	65	126	130
24	297	384	310	720	497	466	397	253	280	64	129	130
25	296	391	320	720	426	440	390	255	256	65	127	126
26	291	405	310	720	424	477	381	262	243	66	117	126
27	296	430	310	720	490	501	415	264	225	68	118	126
28	294	413	300	740	537	532	405	270	210	66	122	126
29	298	400	270	760	------	573	350	276	197	64	126	122
30	292	398	240	720	------	560	309	308	187	62	121	122
31	293	------	220	660	------	563	------	339	------	65	118	------
TOTAL	10,857	10,924	9,171	14,410	16,166	17,862	15,476	9,463	14,001	3,187	3,876	3,864
MEAN	350	364	296	465	577	576	516	305	467	103	125	129
MAX	481	445	401	760	720	786	660	376	1,100	181	196	148
MIN	291	295	210	190	424	440	309	253	187	62	74	119
AC-FT	21,530	21,670	18,190	28,580	32,070	35,430	30,700	18,770	27,770	6,320	7,690	7,660

CAL YR 1973 TOTAL 207,781 MEAN 569 MAX 2,130 MIN 124 AC-FT 412,100
WTR YR 1974 TOTAL 129,257 MEAN 354 MAX 1,100 MIN 62 AC-FT 256,400

PEAK DISCHARGE (BASE, 2,000 FT³/S).--No peak above base.

06799100 North Fork Elkhorn River near Pierce, Nebr.

LOCATION.--Lat 42°10'44", long 97°29'04", in SW1/4 sec.31, T.26 N., R.1 W., Pierce County, 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).

AVERAGE DISCHARGE.--14 years, 91.3 ft³/s (2.586 m³/s), 66,150 acre-ft/yr (81.6 hm³/yr); median of yearly mean discharges, 80 ft³/s (2.266 m³/s), 58,000 acre-ft/yr (71.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 542 ft³/s (15.3 m³/s) May 29, gage height, 7.44 ft (2.268 m); minimum daily, 14 ft³/s (0.40 m³/s) July 30.
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, 13 ft³/s (0.37 m³/s) July 21, 22, 28, 1968, July 31, 1970.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	48	79	34	120	86	67	50	99	40	22	27
2	122	49	76	34	130	91	65	49	91	38	22	27
3	98	48	76	48	100	97	72	48	83	38	19	27
4	79	49	71	42	90	99	73	48	74	36	18	27
5	69	49	67	43	74	95	82	47	66	35	18	26
6	63	50	58	42	64	89	129	46	161	32	17	26
7	60	50	60	40	60	84	163	45	130	31	17	26
8	56	51	62	37	66	81	153	45	85	29	17	27
9	56	49	58	34	85	80	142	48	167	26	23	25
10	54	50	56	38	89	78	139	50	277	24	23	25
11	58	50	60	44	87	81	107	57	255	24	21	25
12	65	50	60	41	87	93	98	58	259	23	23	28
13	61	50	56	41	70	100	98	55	208	21	22	29
14	58	51	54	43	67	100	101	54	144	20	21	28
15	55	52	52	47	71	93	91	51	114	21	23	27
16	52	54	50	56	75	84	85	50	92	20	24	26
17	52	55	52	68	77	77	77	48	80	19	25	26
18	50	55	54	110	88	72	72	58	72	19	26	25
19	50	54	52	160	98	70	67	62	65	18	25	27
20	48	71	50	220	98	68	65	52	67	18	25	25
21	48	72	52	160	102	60	63	49	66	16	24	26
22	48	83	52	150	80	62	59	46	63	18	25	26
23	47	75	54	140	72	60	56	44	51	17	24	26
24	46	77	54	130	76	58	54	41	50	15	24	26
25	46	84	54	125	80	62	53	42	50	15	25	26
26	47	90	54	120	80	68	53	136	49	15	25	26
27	46	94	54	125	79	71	65	89	47	15	26	26
28	47	92	54	140	83	73	64	99	45	15	26	25
29	48	85	46	135	------	73	55	311	43	15	26	26
30	48	81	39	140	------	70	52	190	41	14	27	25
31	48	------	35	150	------	67	------	157	------	16	26	------
TOTAL	1,901	1,868	1,751	2,737	2,348	2,442	2,520	2,225	3,094	703	709	787
MEAN	61.3	62.3	56.5	88.3	83.9	78.8	84.0	71.8	103	22.7	22.9	26.2
MAX	176	94	79	220	130	100	163	311	277	40	27	29
MIN	46	48	35	34	60	58	52	41	41	14	17	25
AC-FT	3,770	3,710	3,470	5,430	4,660	4,840	5,000	4,410	6,140	1,390	1,410	1,560

CAL YR 1973 TOTAL 45,783 MEAN 125 MAX 912 MIN 21 AC-FT 90,810
WTR YR 1974 TOTAL 23,085 MEAN 63.2 MAX 311 MIN 14 AC-FT 45,790

PEAK DISCHARGE (BASE, 870 FT³/S).--No peak above base.

06799350 Elkhorn River at West Point, Nebr.

LOCATION.--Lat 41°50'23", long 96°43'34", in SW1/4NW1/4 sec. 34, T.22 N., R.6 E., Cuming county, on left bank 50 ft (15 m) upstream from bridge on State Highway 32 and 1 mi (2 km) west of West Point.

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.--Ocrober 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.

AVERAGE DISCHARGE.--6 years (1968-74), 806 ft³/s (22.83 m³/s) (583,900 acre-ft/yr (0.720 km³/yr)).

EXTREMES.--Current year: Maximum discharge, 8,400 ft³/s (238 m³/s) May 30, gage height, 9.45 ft (2.880 m); minimum daily, 100 ft³/s (2.83 m³/s) July 29, 31.
Flood of March 31, 1960 reached a stage of 16.09 ft (4.904 m), backwater from ice; observed by Corps of Engineers.

REMARKS.--Records poor. Some small diversions above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,300	460	650	380	1,200	1,010	820	720	1,170	320	125	203
2	1,150	475	650	410	1,150	1,190	800	660	1,070	310	143	210
3	840	460	630	410	1,100	980	810	548	940	300	141	210
4	770	475	610	390	1,000	890	820	483	900	290	143	208
5	690	460	470	410	1,050	1,160	850	461	870	290	146	209
6	680	460	360	420	940	1,220	840	452	2,100	300	141	200
7	650	490	320	400	840	1,250	820	443	3,050	270	146	201
8	600	520	350	380	860	1,100	800	452	1,020	250	149	196
9	630	535	390	370	880	980	810	470	1,470	225	260	182
10	950	535	430	360	900	950	840	496	2,000	215	220	186
11	800	535	470	350	900	860	870	522	1,540	205	280	206
12	670	535	460	350	860	830	920	574	1,640	195	244	205
13	630	535	450	390	880	800	880	640	1,600	180	214	233
14	660	550	440	350	980	800	780	740	1,850	165	196	232
15	650	570	450	500	1,100	800	790	574	1,670	160	232	221
16	610	590	480	640	1,050	780	830	602	1,480	155	280	205
17	590	590	490	860	1,000	760	850	680	1,120	160	244	204
18	570	570	500	1,100	1,050	740	860	1,460	920	142	244	203
19	550	550	470	1,080	1,100	700	880	711	820	131	248	195
20	535	1,090	450	1,200	1,200	690	940	525	740	126	260	198
21	520	1,510	470	1,150	1,300	680	880	1,830	660	122	294	197
22	505	1,150	490	1,150	1,200	680	740	1,050	620	114	295	198
23	490	850	490	1,100	1,000	670	680	609	560	116	220	192
24	490	830	480	1,150	800	660	640	466	500	116	205	199
25	475	810	490	1,200	680	680	620	561	470	113	196	198
26	460	800	500	1,150	800	700	660	1,730	430	105	199	196
27	460	790	500	1,100	1,370	720	680	1,220	400	109	208	192
28	460	770	500	1,100	1,280	740	760	2,020	370	107	214	186
29	445	730	470	1,100	------	780	1,070	3,080	350	100	214	186
30	445	710	440	1,200	------	810	860	2,220	330	102	211	180
31	445	------	410	1,150	------	820	------	1,850	------	100	214	------
TOTAL	19,720	19,935	14,760	23,300	28,470	26,430	24,400	28,849	32,660	5,593	6,526	6,031
MEAN	636	665	476	752	1,017	853	813	931	1,089	180	211	201
MAX	1,300	1,510	650	1,200	1,370	1,250	1,070	3,080	3,050	320	295	233
MIN	445	460	320	350	680	660	620	443	330	100	125	180
AC-FT	39,110	39,540	29,280	46,220	56,470	52,420	48,400	57,220	64,780	11,090	12,940	11,960

CAL YR 1973 TOTAL 381,186 MEAN 1,044 MAX 5,200 MIN 162 AC-FT 756,100
WTR YR 1974 TOTAL 236,674 MEAN 648 MAX 3,080 MIN 100 AC-FT 469,400

PEAK DISCHARGE (BASE, 4,500 FT³/S).--May 30 (2145) 8,400 ft³/s (9.45 ft); June 6 (time unknown) about 5,200 ft³/s.

06799450 Logan Creek at Pender, Nebr.

LOCATION.--Lat 42°06'40", long 96°42'00", in NW1/4 sec.26, T.25 N., R.6 E., Thurston County, 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.

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.

AVERAGE DISCHARGE.--9 years, 149 ft³/s (4.220 m³/s), 108,000 acre-ft/yr (0.133 km³/yr).

EXTREMES.--Current year: Maximum discharge, 1,850 ft³/s (52.4 m³/s) May 29, gage height, 7.54 ft (2.298 m); minimum daily, 33 ft³/s (0.93 m³/s) Aug. 7.
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, 14 ft³/s (0.40 m³/s) July 28, 1968.

REMARKS.--Records fair except those for winter period, which are poor. Records of chemical analysis, water temperatures, and fluvial sediments for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	61	72	70	150	91	64	57	122	56	41	44
2	70	62	73	70	130	92	63	56	110	56	42	46
3	67	62	72	70	115	95	67	55	103	54	36	46
4	65	62	70	70	100	92	75	55	99	54	36	45
5	63	63	72	66	110	86	78	55	94	53	36	45
6	63	65	70	68	100	84	93	54	118	54	34	45
7	63	65	72	68	94	80	86	55	143	50	33	46
8	63	63	78	64	90	80	81	54	100	52	34	51
9	67	66	74	64	96	80	73	55	185	49	43	51
10	90	66	70	66	90	79	69	57	333	47	44	47
11	94	64	66	64	100	80	68	61	119	45	40	49
12	82	64	68	66	170	85	71	58	92	44	38	53
13	72	63	66	70	150	84	69	55	85	42	36	54
14	67	67	64	68	140	81	69	55	79	40	37	53
15	66	90	64	70	120	79	67	54	83	40	39	51
16	64	74	68	66	140	74	66	51	76	39	39	49
17	63	70	68	150	150	73	65	51	72	39	40	49
18	62	67	68	520	160	73	62	66	70	38	42	49
19	62	66	66	370	130	72	62	90	68	38	41	49
20	62	79	64	250	120	72	62	72	65	38	40	48
21	62	114	70	160	112	77	60	136	64	38	40	49
22	61	94	72	130	105	73	60	126	87	36	41	48
23	60	81	72	120	100	71	58	75	104	36	40	48
24	60	79	74	115	96	89	58	65	70	36	42	49
25	60	77	76	120	105	84	59	64	64	36	42	47
26	60	76	76	130	110	72	60	136	62	39	41	46
27	60	72	78	140	97	71	65	118	62	36	42	46
28	59	72	80	150	93	69	68	74	61	36	41	44
29	61	72	78	160	------	67	61	868	57	34	41	45
30	62	72	74	170	------	63	58	187	57	34	42	44
31	62	------	70	200	------	65	------	177	------	35	43	------
TOTAL	2,048	2,148	2,205	3,965	3,273	2,433	2,017	3,192	2,904	1,324	1,226	1,436
MEAN	66.1	71.6	71.1	128	117	78.5	67.2	103	96.8	42.7	39.5	47.9
MAX	94	114	80	520	170	95	93	868	333	56	44	54
MIN	59	61	64	64	90	63	58	51	57	34	33	44
AC-FT	4,060	4,260	4,370	7,860	6,490	4,830	4,000	6,330	5,760	2,630	2,430	2,850

CAL YR 1973 TOTAL 53,527 MEAN 147 MAX 1,500 MIN 56 AC-FT 106,200
WTR YR 1974 TOTAL 28,171 MEAN 77.2 MAX 868 MIN 33 AC-FT 55,880

PEAK DISCHARGE (BASE, 1,500 FT³/S).--May 29 (0600) 1,850 ft³/s (7.54 ft).

06799500 Logan Creek near Uehling, Nebr.

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, 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.

AVERAGE DISCHARGE.--33 years, 185 ft³/s (5.239 m³/s), 134,000 acre-ft/yr (0.165 km³/yr).

EXTREMES.--Current year: Maximum discharge, 8,270 ft³/s (234 m³/s) May 18, gage height, 14.06 ft (4.285 m); minimum daily, 42 ft³/s (1.19 m³/s) July 29, 30, 31.
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, 14 ft³/s (0.40 m³/s) Dec. 28, 1941, Nov. 27, 1942.
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).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	88	100	90	210	128	98	88	367	97	50	70
2	109	86	101	88	180	124	100	86	200	97	57	72
3	99	84	101	88	170	126	114	85	169	96	53	73
4	95	84	98	84	140	128	134	85	151	94	48	71
5	90	82	98	86	150	122	138	85	140	92	50	69
6	90	83	94	84	160	113	137	81	144	88	48	68
7	92	86	98	82	150	108	147	81	195	87	47	67
8	92	87	100	80	140	104	135	87	188	82	51	71
9	97	84	96	80	145	106	130	86	195	83	63	70
10	296	84	92	78	150	103	117	105	830	80	71	72
11	358	88	92	80	160	107	116	328	428	71	70	66
12	226	89	90	78	240	114	122	126	205	64	62	70
13	156	88	86	80	260	115	120	114	165	60	61	70
14	126	87	82	80	230	112	120	107	152	58	61	68
15	114	92	80	82	200	109	114	99	143	57	71	66
16	105	120	86	82	170	103	112	225	145	56	104	64
17	103	101	84	110	190	100	109	147	135	56	80	62
18	103	95	82	200	230	101	104	2,650	130	54	78	61
19	99	91	78	700	210	101	99	2,100	125	54	74	60
20	97	114	80	500	200	103	100	634	121	54	72	58
21	96	149	79	380	150	98	103	2,160	116	52	73	59
22	96	167	84	310	130	96	95	1,110	118	52	76	58
23	94	133	86	250	120	94	91	409	153	50	73	59
24	93	128	88	200	120	98	90	233	150	50	71	59
25	92	122	92	170	135	116	90	223	120	49	72	59
26	90	117	92	175	150	125	93	674	111	48	73	59
27	90	112	94	180	140	110	94	417	107	45	79	59
28	88	106	94	190	138	109	104	279	104	44	75	58
29	88	104	100	200	------	107	102	727	101	42	73	57
30	88	103	92	220	------	103	91	801	98	42	71	58
31	90	------	90	230	------	100	------	820	------	42	71	------
TOTAL	3,679	3,054	2,809	5,337	4,768	3,383	3,319	15,252	5,506	1,996	2,078	1,933
MEAN	119	102	90.6	172	170	109	111	492	184	64.4	67.0	64.4
MAX	358	167	101	700	260	128	147	2,650	830	97	104	73
MIN	88	82	78	78	120	94	90	81	98	42	47	57
AC-FT	7,300	6,060	5,570	10,590	9,460	6,710	6,580	30,250	10,920	3,960	4,120	3,830

CAL YR 1973 TOTAL 101,092 MEAN 277 MAX 3,500 MIN 76 AC-FT 200,500
WTR YR 1974 TOTAL 53,114 MEAN 146 MAX 2,650 MIN 42 AC-FT 105,400

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-18	2000	14.06	8270	5-29	1915	6.40	1600
5-21	1100	10.36	4390				

06800000 Maple Creek near Nickerson, Nebr.

LOCATION.--Lat 41°32'44", long 96°30'09", in NE1/4SW1/4 sec.10, T.18 N., R.8 E., Dodge County, 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.

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.

AVERAGE DISCHARGE.--23 years, 61.0 ft³/s (1.728 m³/s), 44,190 acre-ft/yr (54.5 hm³/yr); median of yearly mean discharges, 53 ft³/s (1.501 m³/s), 38,400 acre-ft/yr (47.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,150 ft³/s (118 m³/s) May 19, gage height, 15.05 ft (4.587 m); minimum daily, 2.5 ft³/s (0.071 m³/s) Sept. 30.
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.
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.

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

REVISIONS (WATER YEARS).--WSP 1630: 1957-58.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	26	41	11	130	66	32	30	48	18	5.5	6.0
2	35	27	40	12	140	69	32	30	48	16	6.4	6.4
3	26	26	39	14	160	71	36	29	46	16	4.9	6.4
4	19	26	38	13	130	69	56	28	46	16	4.3	6.0
5	17	27	25	14	100	62	69	27	46	15	3.7	5.5
6	21	25	21	13	110	56	80	26	140	15	3.7	6.0
7	28	25	19	12	105	52	72	26	67	14	4.0	5.2
8	18	25	20	13	105	51	61	26	48	14	4.3	5.2
9	20	26	21	12	105	50	52	26	48	14	10	5.5
10	446	25	19	15	105	47	47	28	99	15	10	5.2
11	560	25	21	16	110	47	45	320	101	14	11	4.9
12	298	26	24	18	130	47	44	150	58	12	16	8.2
13	94	26	20	19	160	51	44	52	56	12	9.6	6.4
14	58	25	18	24	200	46	45	40	52	11	8.6	5.5
15	47	25	17	30	160	46	45	33	47	10	9.1	5.2
16	40	25	17	35	110	46	42	36	41	8.6	40	5.2
17	36	24	18	43	120	46	40	116	38	8.2	61	4.9
18	33	23	20	50	120	44	38	429	36	8.6	46	4.6
19	33	23	18	45	110	44	32	2,290	34	8.2	29	4.3
20	32	50	20	40	104	42	32	290	34	7.3	19	4.0
21	31	375	21	45	94	34	36	135	33	7.8	14	3.4
22	30	240	38	43	58	39	32	84	31	6.4	12	3.4
23	29	86	35	40	50	36	28	48	28	6.8	10	3.1
24	28	85	31	60	48	32	27	42	27	6.8	8.2	2.8
25	25	83	32	90	54	39	30	38	25	6.8	7.3	3.1
26	24	64	31	80	60	41	31	125	24	5.2	7.3	3.4
27	24	52	30	95	64	44	30	54	22	4.6	7.3	3.1
28	24	47	29	110	66	41	31	100	22	4.6	6.4	3.1
29	25	41	23	120	------	39	31	50	21	4.6	6.0	2.8
30	25	41	21	180	------	36	31	48	21	4.0	6.0	2.5
31	25	------	20	160	------	33	------	48	------	4.3	6.0	------
TOTAL	2,193	1,644	787	1,472	3,008	1,466	1,251	4,804	1,387	314.8	396.6	141.3
MEAN	70.7	54.8	25.4	47.5	107	47.3	41.7	155	46.2	10.2	12.8	4.71
MAX	560	375	41	180	200	71	80	2,290	140	18	61	8.2
MIN	17	23	17	11	48	32	27	26	21	4.0	3.7	2.5
AC-FT	4,350	3,260	1,560	2,920	5,970	2,910	2,480	9,530	2,750	624	787	280

CAL YR 1973 TOTAL 28,576.0 MEAN 78.3 MAX 696 MIN 9.0 AC-FT 56,680
WTR YR 1974 TOTAL 18,864.7 MEAN 51.7 MAX 2,290 MIN 2.5 AC-FT 37,420

PEAK DISCHARGE (BASE, 800 FT³/S).--Oct. 10 (1400) 866 ft³/s (8.02 ft); May 19 (0430) 4,150 ft³/s (15.05 ft).

06800500 Elkhorn River at Waterloo, Nebr.

LOCATION.--Lat 41°17'25", long 96°17'05", in SW1/4 sec.3, T.15 N., R.10 E., Douglas County, 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) (revised) contributes directly to surface runoff.

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.

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.

AVERAGE DISCHARGE.--54 years, 1,144 ft³/s (32.40 m³/s), 828,800 acre-ft/yr (1.02 km³/yr); median of yearly mean discharges, 1,010 ft³/s (28.60 m³/s), 732,000 acre-ft/yr (0.903 km³/yr).

EXTREMES.--Current year: Maximum discharge, 19,200 ft³/s (544 m³/s) May 19, gage height, 10.23 ft (3.118 m); minimum daily, 235 ft³/s (6.66 m³/s) July 31.
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.
Stage and discharge of the flood of June 12, 1944, are the greatest known since at least 1880.

REMARKS.--Records good except those for winter period, which are poor. Some small diversions above station for irrigation. Records of chemical analyses, water temperatures, and fluvial sediments for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1390: 1914(M), 1915, 1936, 1943(M). WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,280	736	1,020	560	2,480	1,630	900	932	2,560	590	269	348
2	1,290	736	1,010	600	2,300	1,540	916	828	1,840	566	281	368
3	1,310	736	998	600	2,110	1,410	956	785	1,530	572	299	360
4	1,120	729	1,040	580	2,020	1,430	1,240	750	1,330	572	305	348
5	1,030	729	989	600	1,810	1,520	1,630	736	1,180	530	299	344
6	932	715	806	620	1,440	1,450	1,400	701	1,180	490	290	332
7	892	736	450	560	1,280	1,440	1,150	687	2,210	470	299	332
8	852	771	500	600	1,190	1,380	1,160	687	3,030	455	293	328
9	828	771	540	580	972	1,420	1,160	687	1,710	460	384	332
10	1,060	764	600	580	1,020	1,320	1,160	722	2,040	445	506	328
11	4,480	764	760	540	1,020	1,310	1,150	1,740	3,490	420	542	320
12	3,680	764	760	520	972	1,360	1,200	2,300	2,280	405	450	410
13	2,200	764	760	640	1,410	1,360	1,230	1,340	2,060	392	425	405
14	1,450	764	760	900	1,540	1,340	1,450	1,170	1,820	376	388	352
15	1,200	792	740	1,300	1,520	1,270	1,390	1,090	1,690	344	376	352
16	1,110	806	800	1,900	1,440	1,290	1,280	1,220	1,570	324	900	348
17	1,040	860	880	2,200	1,590	1,200	1,220	1,840	1,420	305	1,340	340
18	972	836	900	2,500	2,160	1,140	1,190	2,890	1,210	296	836	332
19	940	806	800	2,400	2,060	1,110	1,190	15,000	1,110	296	608	336
20	900	964	740	2,700	2,290	1,110	1,120	5,830	1,030	287	485	324
21	852	1,520	820	2,600	2,700	1,070	1,160	5,520	1,010	287	455	314
22	852	2,290	840	2,500	2,280	1,040	1,160	8,020	940	281	445	305
23	813	1,630	820	2,500	1,690	1,030	1,120	2,640	860	269	445	302
24	799	1,310	820	2,600	1,230	932	1,010	1,690	806	254	376	302
25	764	1,260	820	2,700	806	940	940	1,230	820	254	364	302
26	743	1,250	840	2,400	1,130	1,050	932	4,070	736	251	352	314
27	736	1,160	840	1,840	1,690	1,040	892	3,090	668	250	356	320
28	736	1,090	820	1,720	1,710	1,020	884	3,900	662	247	360	311
29	715	1,050	780	1,430	------	998	924	2,520	620	244	364	308
30	708	1,040	720	1,540	------	1,020	989	3,620	608	240	360	299
31	715	------	660	1,760	------	932	------	3,650	------	235	348	------
TOTAL	36,999	29,143	24,633	45,070	45,860	38,102	34,103	81,885	44,020	11,407	13,800	10,016
MEAN	1,194	971	795	1,454	1,638	1,229	1,137	2,641	1,467	368	445	334
MAX	4,480	2,290	1,040	2,700	2,700	1,630	1,630	15,000	3,490	590	1,340	410
MIN	708	715	450	520	806	932	884	687	608	235	269	299
AC-FT	73,390	57,810	48,860	89,400	90,960	75,580	67,640	162,400	87,310	22,630	27,370	19,870

CAL YR 1973 TOTAL 610,412 MEAN 1,672 MAX 7,800 MIN 332 AC-FT 1,211,000
WTR YR 1974 TOTAL 415,038 MEAN 1,137 MAX 15,000 MIN 235 AC-FT 823,200

PEAK DISCHARGE (BASE, 6,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-19	1400	10.23	19,200	5-26	1600	5.63	6,480
5-21	2330	8.35	13,600				

06803000 Salt Creek at Roca, Nebr.

LOCATION.--Lat 40°39'29", long 96°39'55", in NW1/4SW1/4 sec.17, T.8 N., R.7 E., Lancaster County, 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.

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.

AVERAGE DISCHARGE.--23 years, 43.3 ft³/s (1.226 m³/s), 31,370 acre-ft/yr (38.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,340 ft³/s (151 m³/s) Oct. 11, gage height, 20.10 ft (6.126 m); minimum daily, 1.6 ft³/s (0.045 m³/s) July 7.
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.
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.

REMARKS.--Records fair except those for winter period and period of backwater from beaver dams, which are poor. Flood flow affected by several detention dams.

REVISIONS.--WRD Nebr. 1971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	43	50	35	129	51	24	44	21	5.6	4.0	4.6
2	86	38	48	39	100	50	22	36	18	5.0	4.3	4.5
3	70	33	48	40	82	50	23	34	17	4.1	3.9	4.6
4	60	30	50	40	70	49	25	30	15	4.1	3.7	4.5
5	56	28	52	39	62	53	21	27	14	3.2	4.2	4.3
6	52	26	48	42	56	49	18	25	16	1.7	4.6	4.5
7	50	28	52	40	54	46	18	23	17	1.6	4.3	4.2
8	50	27	43	42	50	43	17	22	16	1.7	5.4	4.3
9	76	24	43	41	52	42	16	23	21	1.8	20	4.3
10	3,260	22	40	42	48	37	15	27	19	2.1	10	4.2
11	4,540	22	40	40	49	37	18	80	16	2.6	4.7	4.3
12	2,920	23	45	39	54	43	23	59	16	2.6	4.4	4.5
13	1,840	24	48	42	57	39	21	44	15	1.8	3.7	4.3
14	1,090	23	43	44	57	38	41	36	14	2.2	3.5	4.2
15	839	24	33	50	53	39	43	29	14	2.4	4.2	4.5
16	707	24	36	60	50	37	38	25	13	3.6	8.0	4.1
17	606	24	36	90	52	34	31	23	13	3.4	6.2	4.1
18	545	25	35	183	56	34	26	27	12	2.9	5.0	4.0
19	449	23	30	292	53	34	28	52	11	2.8	4.4	4.1
20	373	95	22	247	51	33	26	50	11	2.8	4.3	4.0
21	304	314	30	276	51	32	27	45	10	3.0	4.7	3.8
22	248	125	32	219	53	31	24	62	9.3	3.1	4.7	3.4
23	196	94	33	132	53	31	22	49	8.1	3.2	5.0	3.1
24	147	157	38	113	40	32	19	42	7.9	3.2	4.8	2.8
25	106	114	44	140	47	33	19	38	7.5	3.2	4.6	3.1
26	82	92	43	306	50	33	19	35	7.2	3.3	4.7	3.0
27	70	78	43	257	58	31	19	34	5.8	3.3	4.1	3.5
28	62	66	45	171	58	30	24	34	5.0	3.5	4.0	3.2
29	55	58	43	153	------	29	89	28	4.8	3.6	4.0	3.6
30	50	54	39	178	------	27	57	26	5.4	3.6	3.9	3.5
31	47	------	36	181	------	24	------	23	------	3.5	4.1	------
TOTAL	19,136	1,758	1,268	3,613	1,645	1,171	813	1,132	380.0	94.5	161.4	119.1
MEAN	617	58.6	40.9	117	58.8	37.8	27.1	36.5	12.7	3.05	5.21	3.97
MAX	4,540	314	52	306	129	53	89	80	21	5.6	20	4.6
MIN	47	22	22	35	40	24	15	22	4.8	1.6	3.5	2.8
AC-FT	37,960	3,490	2,520	7,170	3,260	2,320	1,610	2,250	754	187	320	236

CAL YR 1973 TOTAL 55,047.3 MEAN 151 MAX 4,540 MIN 3.0 AC-FT 109,200
WTR YR 1974 TOTAL 31,291.0 MEAN 85.7 MAX 4,540 MIN 1.6 AC-FT 62,070

PEAK DISCHARGE (BASE,850 FT³/S).--Oct. 10 (0900) 5,000 ft³/s (19.86 ft), Oct. 11 (0945) 5,340 ft³/s (20.10 ft).

NOTE.--Stage-discharge relation affected by backwater from beaver dams July 7 to Sept. 30.

06803500 Salt Creek at Lincoln, Nebr.

LOCATION.--Lat 40°50'49", long 96°40'54", in NW1/4SW1/4 sec.7, T.10 N., R.7 E., Lancaster County, 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).

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

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.

AVERAGE DISCHARGE.--25 years, 208 ft³/s (5.891 m³/s), 150,700 acre-ft/yr (0.186 km³/yr).

EXTREMES.--Current year: Maximum discharge, 21,200 ft³/s (600 m³/s) Oct. 11, gage height, 23.80 ft (7.254 m); minimum daily, 65 ft³/s (1.84 m³/s) July 7, Aug. 4, Sept. 28,29.
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.
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.

REMARKS.--Records fair. Flood flow affected by several detention dams. Records of chemical analyses and water temperatures for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WRD Nebr. 1971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	507	265	244	238	487	313	202	343	241	106	81	86
2	444	253	232	220	415	292	192	289	211	111	73	99
3	387	232	247	220	349	283	202	280	200	109	67	94
4	340	217	250	230	373	295	226	217	195	101	65	94
5	300	211	247	247	352	289	211	202	189	106	71	92
6	267	197	226	208	325	292	197	192	289	83	71	92
7	245	202	202	220	331	286	197	179	214	65	71	88
8	245	202	241	223	331	280	192	174	205	67	71	75
9	521	189	217	223	325	271	184	182	214	75	119	92
10	6,990	182	202	223	298	256	182	192	200	77	117	92
11	17,000	179	214	217	313	271	197	535	205	79	99	90
12	7,150	189	211	205	370	274	214	271	174	88	90	90
13	3,530	197	220	202	430	268	208	259	171	83	88	90
14	1,980	195	214	214	427	256	436	223	176	75	75	92
15	1,420	197	189	223	370	265	352	197	171	77	79	79
16	1,190	192	205	283	340	265	316	189	161	86	520	88
17	1,020	184	220	307	352	244	280	189	179	81	283	88
18	896	182	192	388	406	244	256	2,150	161	86	137	88
19	796	200	210	439	385	247	250	1,980	169	77	97	88
20	702	466	226	463	361	250	238	625	150	73	90	88
21	598	1,100	300	484	361	235	424	916	130	71	92	77
22	553	496	290	511	421	241	268	565	119	79	92	69
23	502	364	280	442	346	229	220	445	109	73	88	75
24	445	421	280	424	319	214	208	385	117	81	83	75
25	397	367	340	421	316	223	202	331	119	81	75	73
26	355	331	440	636	406	229	200	307	109	81	88	71
27	322	313	330	625	358	217	197	295	111	73	99	73
28	298	286	280	502	337	214	1,410	265	109	69	90	65
29	292	271	260	457	------	211	981	262	106	77	90	65
30	280	265	244	559	------	205	451	970	99	71	109	73
31	268	------	238	610	------	192	------	364	------	71	117	------
TOTAL	50,240	8,545	7,691	10,864	10,204	7,851	9,293	13,973	5,003	2,532	3,387	2,501
MEAN	1,621	285	248	350	364	253	310	451	167	81.7	109	83.4
MAX	17,000	1,100	440	636	487	313	1,410	2,150	289	111	520	99
MIN	245	179	189	202	298	192	182	174	99	65	65	65
AC-FT	99,650	16,950	15,260	21,550	20,240	15,570	18,430	27,720	9,920	5,020	6,720	4,960

CAL YR 1973 TOTAL 178,385 MEAN 489 MAX 17,000 MIN 77 AC-FT 353,800
WTR YR 1974 TOTAL 132,084 MEAN 362 MAX 17,000 MIN 65 AC-FT 262,000

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-11	1300	23.80	21,200	5-18	2100	15.80	7,600
4-28	1100	10.95	3,300				

06803510 Little Salt Creek near Lincoln, Nebr.

LOCATION.--Lat 40°53'36", long 96°40'52", in NW1/4SW1/4 sec.30, T.11 N., R.7 E., Lancaster County, on left bank 10 ft (3 m) downstream from county road bridge and 1.6 mi (2.6 km) north of intersection of Interstate Highway 80 and North 14th 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).

AVERAGE DISCHARGE.--5 years, 11.2 ft³/s (0.317 m³/s), 8,110 acre-ft/yr (10.00 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,080 ft³/s (58.9 m³/s) Apr. 28, gage height, 9.18 ft (2.798 m); maximum gage height, 13.38 ft (4.078 m) Oct. 11, backwater from Salt Creek; minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Sept. 26-30.
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.

REMARKS.--Records fair except those for winter period, which are poor. Records of chemical analyses and water temperatures for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	7.1	2.9	9.4	44	14	7.4	14	8.3	3.3	2.1	2.7
2	10	6.7	3.3	9.6	22	13	7.1	11	7.4	3.2	2.4	2.7
3	7.6	6.0	3.1	9.6	16	12	8.6	8.6	7.1	3.0	2.1	2.7
4	6.7	6.4	3.0	10	15	14	8.6	7.7	7.1	3.0	2.1	2.7
5	6.0	6.4	3.0	10	14	13	7.7	7.7	6.8	3.2	2.2	2.6
6	5.7	6.7	3.3	10	12	12	7.7	7.1	12	3.0	2.2	2.7
7	5.7	7.1	3.1	9.8	9.0	11	7.4	7.1	8.3	2.9	2.2	2.7
8	5.7	6.7	3.6	9.4	9.6	11	7.4	6.8	7.7	2.8	2.4	2.8
9	56	6.4	4.3	9.0	10	11	6.8	9.0	13	2.7	4.0	2.7
10	322	6.4	3.9	8.4	12	11	7.7	11	7.7	2.9	3.6	2.7
11	895	7.1	3.9	8.2	20	14	12	53	7.4	2.7	3.0	2.8
12	250	7.6	5.7	8.0	38	14	12	12	6.8	2.6	3.0	3.6
13	120	8.1	4.3	8.6	40	12	9.8	8.3	6.2	2.6	2.6	4.0
14	60	7.6	2.9	9.2	31	12	35	7.7	5.9	2.5	2.4	3.2
15	42	7.6	2.8	11	20	16	16	6.8	5.6	2.5	2.7	2.6
16	32	7.1	3.0	13	20	13	14	7.1	5.3	2.4	34	2.4
17	24	7.6	3.6	15	28	11	10	7.4	5.0	2.4	8.3	2.6
18	18	6.7	3.6	15	31	11	9.4	78	5.0	2.3	3.3	2.7
19	15	7.1	3.2	17	22	9.8	8.3	58	5.0	2.3	2.2	2.6
20	13	48	2.8	13	20	10	9.4	25	4.5	2.2	2.0	2.6
21	12	43	3.7	20	20	12	8.3	34	4.2	2.3	2.1	2.1
22	10	7.1	5.2	17	17	14	6.8	23	4.0	2.5	2.2	1.3
23	9.6	7.1	7.0	13	17	12	6.8	18	4.0	2.2	2.2	1.2
24	8.6	13	9.8	12	13	11	7.1	14	3.8	2.1	2.2	1.5
25	7.6	6.4	11	15	13	10	7.1	15	3.8	2.1	2.4	1.2
26	8.1	5.7	11	37	14	10	6.8	12	3.8	2.2	3.2	1.1
27	9.1	4.3	10	30	15	9.0	6.5	10	3.3	2.2	3.3	1.1
28	7.6	3.3	10	22	12	9.0	339	8.8	3.2	2.1	3.4	1.1
29	7.1	3.6	10	26	------	9.0	53	8.0	3.2	2.2	3.3	1.1
30	8.1	3.3	9.8	54	------	8.0	22	38	3.3	2.1	2.8	1.1
31	7.1	------	9.6	70	------	8.0	------	13	------	2.1	2.7	------
TOTAL	2,004.3	277.2	166.4	529.2	554.6	356.8	675.7	547.1	178.7	78.6	118.6	68.9
MEAN	64.7	9.24	5.37	17.1	19.8	11.5	22.5	17.6	5.96	2.54	3.83	2.30
MAX	895	48	11	70	44	16	339	78	13	3.3	34	4.0
MIN	5.7	3.3	2.8	8.0	9.0	8.0	6.5	6.8	3.2	2.1	2.0	1.1
AC-FT	3,980	550	330	1,050	1,100	708	1,340	1,090	354	156	235	137

CAL YR 1973 TOTAL 8,334.2 MEAN 22.8 MAX 895 MIN 1.2 AC-FT 16,530
WTR YR 1974 TOTAL 5,556.1 MEAN 15.2 MAX 895 MIN 1.1 AC-FT 11,020

PEAK DISCHARGE (BASE, 550 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-10	0800	6.42	636	04-28	0800	9.18	2,080
10-11	0900	13.38	a1,300				

a About

06803520 Stevens Creek near Lincoln, Nebr.

LOCATION.--Lat 40°51'25", long 96°35'42", in NW1/4NE1/4 sec.11, T.10 N., R.7 E., Lancaster County, 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).

AVERAGE DISCHARGE.--6 years, 15.4 ft³/s (0.436 m³/s), 11,160 acre-ft/yr (13.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,850 ft³/s (80.7 m³/s) Oct. 10, gage height, 17.03 ft (5.191 m); minimum daily, 0.92 ft³/s (0.026 m³/s) Sept. 24.
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, 0.21 ft³/s (0.006 m³/s) Sept. 15, 1971.

REMARKS.--Records good except those for winter period and period of backwater from beaver dams, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	15	14	13	31	21	11	10	12	3.1	1.8	1.9
2	17	14	15	13	28	21	11	10	11	2.8	1.9	1.7
3	13	14	15	13	24	20	12	12	9.4	2.6	1.8	1.6
4	11	13	15	14	27	19	13	10	9.0	2.5	1.7	1.6
5	8.9	14	15	14	24	23	12	9.6	8.8	2.3	1.8	1.7
6	8.2	14	14	13	20	19	12	9.2	12	2.6	1.9	1.6
7	10	14	13	13	20	21	12	8.8	11	2.0	1.8	1.8
8	12	14	14	14	19	17	11	9.0	9.8	1.6	1.8	1.7
9	75	13	16	13	19	16	11	10	19	1.3	2.2	1.8
10	1,800	13	14	14	19	15	11	12	12	1.1	2.6	1.6
11	2,140	14	15	13	21	16	13	83	10	1.3	2.5	1.6
12	119	14	16	13	27	18	16	22	9.2	1.3	1.8	1.7
13	60	15	16	14	26	16	13	15	8.2	1.2	1.6	1.8
14	43	14	14	16	24	16	33	13	7.6	1.3	1.0	1.7
15	36	14	14	17	20	16	21	11	6.6	1.5	1.5	1.6
16	31	14	12	19	20	16	19	11	6.2	1.6	5.9	1.5
17	28	14	12	45	23	14	15	11	5.8	1.6	6.2	1.4
18	26	16	13	91	27	15	13	122	5.5	1.6	4.0	1.3
19	24	13	12	77	22	15	13	222	5.3	1.8	4.1	1.2
20	21	79	10	46	21	14	12	31	5.4	1.7	1.8	1.2
21	20	110	12	64	21	14	12	20	4.8	1.6	1.9	1.3
22	19	25	14	45	21	19	10	17	4.6	1.7	1.5	1.2
23	19	23	15	34	23	15	9.6	14	4.4	1.7	1.6	1.1
24	18	46	17	30	20	14	9.4	13	4.3	1.6	1.7	.92
25	16	24	26	40	22	15	9.0	12	4.0	1.6	1.6	1.2
26	16	20	22	104	22	18	9.4	12	3.9	1.6	1.4	1.1
27	15	18	18	65	30	15	11	12	3.7	1.5	1.3	1.3
28	15	16	17	39	24	14	130	16	3.5	1.5	1.5	1.2
29	15	15	16	46	------	15	21	11	3.3	1.4	1.4	1.3
30	16	16	17	70	------	12	11	77	3.2	1.4	1.3	1.2
31	16	------	15	61	------	12	------	20	------	1.6	1.6	------
TOTAL	4,692.1	658	468	1,083	645	511	516.4	865.6	223.5	54.0	66.5	43.82
MEAN	151	21.9	15.1	34.9	23.0	16.5	17.2	27.9	7.45	1.74	2.15	1.46
MAX	2,140	110	26	104	31	23	130	222	19	3.1	6.2	1.9
MIN	8.2	13	10	13	19	12	9.0	8.8	3.2	1.1	1.0	.92
AC-FT	9,310	1,310	928	2,150	1,280	1,010	1,020	1,720	443	107	132	87

CAL YR 1973 TOTAL 15,947.40 MEAN 43.7 MAX 2,140 MIN 1.6 AC-FT 31,630
WTR YR 1974 TOTAL 9,826.92 MEAN 26.9 MAX 2,140 MIN .92 AC-FT 19,490

PEAK DISCHARGE (BASE, 500 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-10	1230	17.03	2,850	5-18	2330	10.97	876
10-11	1430	16.67	2,840				

NOTE.--Stage-discharge relation affected by backwater from beaver dams July 5 to Sept. 30.

06803530 Rock Creek near Ceresco, Nebr.

LOCATION.--Lat 41°00'56", long 96°32'39", in NE1/4NE1/4 sec.17, T.12 N., R.8 E., Lancaster County, 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).

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.

EXTREMES.--Current year: Maximum discharge, 2,720 ft³/s (77.0 m³/s) Oct. 11, gage height, 12.67 ft (3.862 m); minimum daily, 3.1 ft³/s (0.088 m³/s) July 17.
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, 0.8 ft³/s (0.023 m³/s) July 4, 5, 1970.

REMARKS.--Records good except those for winter period, which are poor. Records of chemical analyses, water temperatures, and fluvial sediments for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	18	16	15	54	29	17	19	16	5.8	5.0	5.9
2	26	17	17	16	32	30	17	18	15	5.7	6.3	6.1
3	19	16	17	17	29	29	19	17	16	5.2	4.3	6.1
4	17	16	15	18	27	28	22	16	15	5.7	5.5	5.9
5	14	16	15	18	26	28	22	15	15	5.5	4.5	5.9
6	14	16	14	18	24	26	21	15	49	5.5	5.0	6.3
7	16	17	13	20	22	24	20	15	21	4.8	4.5	6.3
8	16	17	14	21	24	25	18	15	17	5.2	4.8	5.9
9	60	16	15	21	26	24	17	17	38	5.5	10	6.0
10	432	16	13	20	29	23	17	21	20	4.2	11	5.8
11	1,980	17	15	21	34	26	23	113	16	3.8	12	5.6
12	243	18	14	20	70	32	23	25	15	4.0	7.4	14
13	55	17	13	19	120	26	19	19	14	5.5	6.8	9.4
14	34	16	13	23	104	24	88	17	13	3.7	7.0	6.0
15	28	17	12	26	47	29	35	14	12	4.8	9.8	5.8
16	23	16	13	30	44	26	40	14	11	4.6	101	5.7
17	22	16	16	35	79	24	26	16	11	3.1	22	5.5
18	20	16	16	33	99	24	22	830	12	4.5	13	5.6
19	21	16	14	30	52	23	21	142	11	4.0	8.0	5.2
20	19	60	10	34	45	23	21	41	11	4.8	6.3	4.8
21	19	152	14	29	41	24	21	136	9.8	4.2	5.9	5.0
22	19	32	16	28	31	28	19	48	8.6	5.9	6.1	5.0
23	19	22	18	26	30	26	17	24	8.5	4.6	6.1	5.1
24	19	39	22	28	29	25	17	20	8.9	4.3	5.9	4.8
25	17	26	29	30	31	22	17	19	8.4	4.3	6.1	5.1
26	17	23	27	43	35	23	17	20	8.3	5.2	6.1	4.8
27	17	21	25	40	38	22	17	20	8.2	5.0	5.9	5.0
28	17	18	23	39	32	21	166	22	7.5	4.6	6.1	4.6
29	16	16	21	38	------	20	33	18	6.6	4.3	5.7	4.3
30	18	17	19	58	------	18	22	21	6.7	5.0	5.7	4.6
31	18	------	17	80	------	18	------	23	------	5.2	5.9	------
TOTAL	3,296	740	516	894	1,254	770	854	1,770	429.5	148.5	319.7	176.1
MEAN	106	24.7	16.6	28.8	44.8	24.8	28.5	57.1	14.3	4.79	10.3	5.87
MAX	1,980	152	29	80	120	32	166	830	49	5.9	101	14
MIN	14	16	10	15	22	18	17	14	6.6	3.1	4.3	4.3
AC-FT	6,540	1,470	1,020	1,770	2,490	1,530	1,690	3,510	852	295	634	349

CAL YR 1973 TOTAL 18,054.4 MEAN 49.5 MAX 1,980 MIN 6.1 AC-FT 35,810
WTR YR 1974 TOTAL 11,167.8 MEAN 30.6 MAX 1,980 MIN 3.1 AC-FT 22,150

PEAK DISCHARGE (BASE, 600 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-11	1100	12.67	2,720	5-18	1000	9.03	1,460
4-28	0800	6.24	713				

06803555 Salt Creek at Greenwood, Nebr.

LOCATION.--Lat 40°57'56", long 96°27'01", at center of sec.31, T.12 N., R.9 E., Cass County, 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).

PERIOD OF RECORD.--November 1951 to current year. Records furnished by Corps of Engineers prior to Oct. 1, 1972.

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.

AVERAGE DISCHARGE.--22 years (1952-74), 273 ft³/s (7.731 m³/s), 197,800 acre-ft/yr (0.244 km³/yr).

EXTREMES.--Current year: Maximum discharge, 39,400 ft³/s (1,120 m³/s) Oct. 11, gage height , 23.50 ft (7.163 m) from floodmark; minimum daily, 77 ft³/s (2.18 m³/s) July 8.
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.

REMARKS.--Records poor. Records of water temperatures and fluvial sediments for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WRD Nebr. 1971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	709	352	337	300	720	374	262	492	380	125	93	131
2	539	349	337	300	576	352	264	409	324	128	95	123
3	452	329	343	310	472	361	273	387	300	130	88	117
4	395	306	352	320	402	367	290	334	292	128	85	114
5	352	291	364	340	448	376	276	303	275	128	85	113
6	331	280	325	290	426	362	260	284	378	114	90	116
7	316	282	300	300	391	349	251	277	329	100	95	120
8	309	275	310	310	390	341	241	267	276	77	98	116
9	697	274	310	320	391	334	236	317	401	85	130	112
10	10,100	280	290	320	377	313	233	335	319	95	190	123
11	31,400	280	290	310	377	313	278	1,080	285	101	186	117
12	13,800	283	300	300	500	372	310	642	251	98	150	123
13	5,380	301	300	300	636	353	283	409	234	98	131	118
14	3,200	304	290	320	612	340	547	331	234	90	125	106
15	2,220	301	260	350	460	361	493	293	222	85	137	103
16	1,810	289	250	400	398	361	427	280	196	90	642	97
17	1,530	286	260	440	448	333	373	270	185	95	563	102
18	1,330	283	260	600	556	327	340	2,060	193	104	394	103
19	1,190	280	280	656	484	326	328	4,120	200	101	201	102
20	1,040	592	320	672	440	318	318	994	212	101	177	97
21	895	1,930	380	695	436	309	319	1,130	207	95	168	92
22	813	980	380	720	472	330	388	1,010	192	104	159	78
23	735	556	360	584	440	304	293	575	171	114	142	79
24	617	705	360	540	405	270	277	460	148	104	134	85
25	552	588	470	564	444	278	278	410	160	104	128	82
26	480	496	550	955	436	293	286	391	162	101	123	87
27	430	460	440	1,030	460	294	290	380	160	95	139	91
28	402	408	340	760	416	289	2,090	373	151	101	125	81
29	380	374	320	685	------	292	1,610	370	135	87	106	78
30	361	355	310	965	------	284	698	1,090	125	87	114	80
31	355	------	300	1,160	------	272	------	784	------	90	171	------
TOTAL	83,120	13,069	10,288	16,116	13,013	10,148	12,812	20,857	7,097	3,155	5,264	3,086
MEAN	2,681	436	332	520	465	327	427	673	237	102	170	103
MAX	31,400	1,930	550	1,160	720	376	2,090	4,120	401	130	642	131
MIN	309	274	250	290	377	270	233	267	125	77	85	78
AC-FT	164,900	25,920	20,410	31,970	25,810	20,130	25,410	41,370	14,080	6,260	10,440	6,120

CAL YR 1973 TOTAL 280,279 MEAN 768 MAX 31,400 MIN 108 AC-FT 555,900
WTR YR 1974 TOTAL 198,025 MEAN 543 MAX 31,400 MIN 77 AC-FT 392,800

PEAK DISCHARGE (BASE, 2,200 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-11	1500	23.50	39,400	5-19	0200	12.65	8,880
11-21	1015	7.07	2,340	5-21	2000	6.85	2,200
4-28	1430	9.11	4,260	5-30	1800	7.32	2,560

06804000 Wahoo Creek at Ithaca, Nebr.

LOCATION.--Lat 41°08'40", long 96°32'10", in NW1/4NW1/4 sec.33, T.14 N., R.8 E., Saunders County, 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.

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.

AVERAGE DISCHARGE.--25 years, 78.1 ft³/s (2.212 m³/s), 56,580 acre-ft/yr (69.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,880 ft³/s (81.6 m³/s) Oct. 12, gage height, 18.92 ft (5.767 m); minimum daily, 22 ft³/s (0.62 m³/s) July 30,31.
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.
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).

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

REVISIONS.--WRD Nebr. 1971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	62	69	60	110	89	62	63	72	37	24	29
2	59	60	70	64	90	92	61	63	70	36	24	28
3	54	59	72	64	78	93	65	62	69	35	23	29
4	50	58	64	64	70	89	83	60	68	34	23	28
5	49	58	60	62	80	89	95	60	66	35	23	27
6	48	57	48	62	72	82	91	58	133	34	23	26
7	48	58	54	64	66	80	89	58	91	32	23	27
8	49	58	62	66	68	76	78	58	72	30	23	26
9	54	57	64	62	70	76	70	58	100	29	36	26
10	321	57	54	64	70	74	70	61	82	30	64	25
11	1,960	58	58	62	79	75	72	362	71	31	49	26
12	1,060	61	60	64	126	86	82	97	65	30	40	61
13	184	59	58	64	174	78	72	70	63	28	34	107
14	128	59	52	64	144	75	147	66	62	27	33	34
15	103	59	39	68	103	77	105	61	59	27	38	29
16	89	58	50	74	93	78	101	61	55	26	63	28
17	82	56	52	90	111	70	85	78	54	26	56	28
18	79	57	50	114	145	71	78	793	55	25	51	27
19	77	56	32	92	116	70	75	443	54	26	43	26
20	76	185	31	82	110	69	75	138	53	25	32	26
21	73	686	34	78	100	66	190	297	51	25	31	26
22	73	179	39	78	90	78	87	226	48	25	31	25
23	73	102	42	74	82	64	73	93	45	26	31	25
24	70	129	47	76	78	62	70	83	44	25	30	26
25	68	106	49	78	90	70	70	79	44	25	30	27
26	66	86	50	80	100	71	72	81	44	25	29	26
27	66	83	48	88	110	68	70	93	43	25	29	26
28	64	74	43	82	95	66	70	173	41	25	30	26
29	62	71	40	86	------	64	70	81	40	23	29	26
30	62	71	37	120	------	61	65	84	39	22	28	26
31	63	------	35	140	------	62	------	79	------	22	29	------
TOTAL	5,376	2,879	1,563	2,386	2,720	2,321	2,493	4,139	1,853	871	1,052	922
MEAN	173	96.0	50.4	77.0	97.1	74.9	83.1	134	61.8	28.1	33.9	30.7
MAX	1,960	686	72	140	174	93	190	793	133	37	64	107
MIN	48	56	31	60	66	61	61	58	39	22	23	25
AC-FT	10,660	5,710	3,100	4,730	5,400	4,600	4,940	8,210	3,680	1,730	2,090	1,830

CAL YR 1973 TOTAL 39,687 MEAN 109 MAX 1,960 MIN 26 AC-FT 78,720
WTR YR 1974 TOTAL 28,575 MEAN 78.3 MAX 1,960 MIN 22 AC-FT 56,680

PEAK DISCHARGE (BASE, 1,500 FT³/S).--Oct. 12 (0145) 2880 ft³/s (18.92 ft), May 18 (1415) 1,530 ft³/s (14.82 ft).

06805500 Platte River at Louisville, Nebr.

LOCATION.--Lat 41°00'55", long 96°09'28", in NW1/4 NW1/4 sec.14, T.12 N., R.11 E., Sarpy County, on the left bank at the upstream side of bridge on Nebraska Highway 50, 1 mi (2 km) north of Louisville.

DRAINAGE AREA (REVISED).--89,800 mi² (232,600 km²), approximately, of which about 71,000 mi² (183,900 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--May 1953 to current year. October 1961 to September 1973 published as Platte River at South Bend.

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.

AVERAGE DISCHARGE.--21 years, 5,790 ft³/s (164.0 m³/s), 4,195,000 acre-ft/yr (5.17 km³/yr).

EXTREMES.--Current year: Maximum discharge, 42,400 ft³/s (1,200 m³/s) Oct. 11,12, gage height, 7.85 ft (2.393 m); minimum daily, 373 ft³/s (10.6 m³/s) July 31.
Period of record: Maximum discharge, 124,000 ft³/s (3,510 m³/s) Mar. 30, 1960, gage height, 12.45 ft (3.795 m), site and datum then in use; minimum daily, 240 ft³/s (6.80 m³/s) Sept. 3, 1955.
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), site and datum then in use.

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. Records of water temperatures and fluvial sediments for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WRD Nebr. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19,300	8,930	11,300	4,000	10,800	11,500	11,200	9,730	8,350	2,280	413	1,590
2	16,000	9,470	11,000	4,500	11,000	11,500	11,100	9,950	6,200	2,090	537	1,760
3	14,200	8,740	11,000	4,400	11,000	11,100	11,500	8,890	5,650	1,910	573	1,610
4	13,400	8,810	11,600	4,200	11,600	10,100	13,500	8,250	5,310	1,930	573	1,500
5	12,200	8,070	9,600	4,500	12,000	10,100	13,000	7,590	4,730	1,670	691	1,550
6	11,400	8,310	8,600	4,600	11,000	10,800	13,600	6,970	4,970	1,540	923	1,580
7	10,800	8,240	7,600	4,300	10,400	10,700	13,100	6,950	5,120	1,530	935	1,560
8	10,000	7,950	7,200	4,600	9,600	10,000	13,000	7,090	7,440	1,300	845	1,690
9	9,700	8,100	7,200	4,400	9,200	9,830	12,100	6,310	6,960	1,250	1,150	1,800
10	20,100	7,930	7,200	4,700	8,910	9,460	12,300	6,090	6,330	1,270	1,650	1,570
11	39,000	8,220	7,400	4,400	8,490	9,790	12,400	8,140	8,010	1,190	1,670	1,620
12	40,100	8,370	7,200	4,300	9,350	10,200	12,800	12,000	13,000	1,120	1,720	1,860
13	27,300	8,290	6,800	4,900	10,900	10,100	13,100	10,100	9,940	1,040	1,550	1,950
14	19,400	9,750	6,400	5,800	12,600	10,200	14,100	8,380	9,250	984	1,450	1,620
15	16,800	9,030	5,800	7,400	13,200	10,300	13,700	7,940	7,770	895	1,700	1,890
16	14,400	7,830	6,200	9,400	13,700	11,200	14,100	6,450	7,680	801	2,330	1,890
17	13,100	8,980	6,200	9,200	14,900	11,200	13,400	6,740	7,460	699	2,750	1,910
18	12,100	9,140	5,400	9,000	18,200	11,400	12,400	8,560	6,090	650	2,370	2,050
19	12,200	8,940	4,100	8,800	16,900	11,800	11,900	24,800	5,760	613	2,030	1,990
20	11,200	10,100	3,000	9,400	18,700	11,300	11,900	17,300	5,240	601	2,010	2,030
21	11,000	14,600	4,500	9,200	17,200	11,200	11,100	11,500	4,380	547	1,970	1,880
22	10,600	15,800	5,800	9,200	13,700	11,200	11,200	21,800	4,520	539	2,350	1,740
23	10,400	13,400	5,600	9,800	11,800	11,300	10,100	12,700	3,980	546	2,150	1,980
24	10,400	11,900	6,400	10,600	12,200	11,700	9,660	8,350	3,430	498	2,330	1,730
25	10,200	13,000	6,200	11,000	9,320	11,000	9,600	7,080	3,530	445	1,680	1,720
26	10,200	11,900	6,000	10,800	9,380	12,600	9,400	7,250	3,280	400	1,650	1,840
27	9,780	11,900	6,400	10,200	10,500	11,200	8,880	9,990	2,830	391	1,790	1,990
28	9,680	11,400	7,000	10,000	11,700	10,800	11,100	8,190	2,760	425	1,740	2,030
29	9,560	11,400	6,600	11,000	------	11,000	12,100	8,980	2,440	419	1,560	1,950
30	9,620	11,400	5,800	12,000	------	11,100	10,000	8,240	2,400	385	1,490	1,970
31	9,310	------	5,000	10,600	------	9,350	------	8,600	------	373	1,490	------
TOTAL	453,450	299,900	216,100	231,200	338,250	335,030	357,340	300,910	174,810	30,331	48,070	53,850
MEAN	14,630	9,997	6,971	7,458	12,080	10,810	11,910	9,707	5,827	978	1,551	1,795
MAX	40,100	15,800	11,600	12,000	18,700	12,600	14,100	24,800	13,000	2,280	2,750	2,050
MIN	9,310	7,830	3,000	4,000	8,490	9,350	8,880	6,090	2,400	373	413	1,500
AC-FT	899,400	594,900	428,600	458,600	670,900	664,500	708,800	596,900	346,700	60,160	95,350	106,800

CAL YR 1973 TOTAL 3,876,910 MEAN 10,620 MAX 45,000 MIN 1,640 AC-FT 7,690,000
WTR YR 1974 TOTAL 2,839,241 MEAN 7,779 MAX 40,100 MIN 373 AC-FT 5,632,000

06806500 Weeping Water Creek at Union, Nebr.

LOCATION.--Lat 40°47'35", long 95°54'40", in NW1/4 sec.36, T.10 N., R.13 E., Cass County, 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.

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.

AVERAGE DISCHARGE.--24 years, 82.9 ft³/s (2.348 m³/s), 60,060 acre-ft/yr (74.1 hm³/yr); median of yearly mean discharges, 69 ft³/s (1.954 m³/s), 50,000 acre-ft/yr (61.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,120 ft³/s (173 m³/s) Oct. 11, gage height, 22.12 ft (6.742 m); minimum daily, 20 ft³/s (0.57 m³/s) Sept. 29,30.
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.

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

REVISIONS.--WSP 2118: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	157	116	110	267	167	107	111	169	66	27	37
2	164	152	117	110	224	160	104	101	138	63	29	35
3	139	149	116	115	216	159	108	98	125	59	28	35
4	125	148	129	115	178	153	111	93	119	59	28	33
5	115	147	132	115	227	159	106	92	130	57	28	32
6	113	145	117	120	186	148	102	88	115	56	29	32
7	116	148	111	120	168	135	105	87	105	54	29	33
8	115	145	124	115	182	132	99	89	110	53	30	33
9	111	141	117	120	189	119	98	92	150	50	32	31
10	1,490	139	109	120	181	131	98	97	130	49	42	31
11	5,360	141	114	125	187	128	103	426	104	51	42	29
12	1,440	143	115	130	228	144	133	240	98	49	36	37
13	449	143	120	142	237	135	125	136	96	46	33	40
14	323	138	117	158	220	128	112	134	96	44	32	35
15	266	138	104	163	196	129	126	106	92	43	64	31
16	229	132	106	174	187	125	119	101	90	42	177	30
17	203	131	116	170	195	121	112	197	88	42	158	28
18	215	130	106	170	216	124	104	1,660	86	40	66	27
19	218	128	93	180	204	120	98	318	82	38	46	25
20	191	176	90	186	185	119	98	177	82	36	40	25
21	186	288	100	195	190	118	104	579	80	35	36	23
22	180	169	110	195	192	127	99	2,270	78	36	35	22
23	177	136	120	162	178	124	90	116	75	35	34	22
24	175	178	126	159	149	116	88	111	76	34	34	22
25	165	156	174	177	149	120	88	108	76	33	33	23
26	165	137	166	305	170	124	87	113	75	30	32	22
27	162	132	131	308	212	128	88	113	72	29	34	21
28	159	125	121	234	204	121	206	106	71	28	33	21
29	154	120	116	233	------	118	321	410	70	26	32	20
30	160	119	117	332	------	112	156	1,980	68	26	32	20
31	160	------	113	436	------	110	------	565	------	27	47	------
TOTAL	13,412	4,431	3,663	5,494	5,517	4,054	3,495	10,914	2,946	1,336	1,378	855
MEAN	433	148	118	177	197	131	117	352	98.2	43.1	44.5	28.5
MAX	5,360	288	174	436	267	167	321	2,270	169	66	177	40
MIN	111	119	90	110	149	110	87	87	68	26	27	20
AC-FT	26,600	8,790	7,270	10,900	10,940	8,040	6,930	21,650	5,840	2,650	2,730	1,700

CAL YR 1973 TOTAL 75,024 MEAN 206 MAX 5,360 MIN 35 AC-FT 148,800
WTR YR 1974 TOTAL 57,495 MEAN 158 MAX 5,360 MIN 20 AC-FT 114,000

PEAK DISCHARGE (BASE, 3,000 FT³/S).--Oct. 11 (1630) 6,120 ft³/s (22.12 ft).

06807000 Missouri River at Nebraska City, Nebr.

LOCATION.--Lat 40°40'55", long 95°50'48", in NW1/4NE1/4 sec.9, T.8 N., R.14 E., Otoe County, 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.--414,400 mi² (1,073,000 km²), approximately.

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.

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.

AVERAGE DISCHARGE.--45 years, 34,810 ft³/s (985.8 m³/s), 25,220,000 acre-ft/yr (31.1 km³/yr).

EXTREMES.--Current year: Maximum discharge, 86,700 ft³/s (2,460 m³/s) May 19, gage height, 16.31 ft (4.971 m); maximum gage height, 18.63 ft (5.678 m) Jan. 12, backwater from ice; minimum daily discharge, 18,500 ft³/s (524 m³/s) Jan. 13-15; minimum gage height, 4.38 ft (1.335 m) Jan. 12.
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.

REMARKS.--Records good. Flow partly regulated by upstream main-stem reservoirs. Records of chemical and biological analysis, water temperatures, and suspended-sediment discharges for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 761: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51,400	38,500	31,400	23,200	37,100	35,100	40,000	41,200	42,700	36,100	36,800	36,600
2	53,800	41,200	31,400	22,300	37,100	35,100	41,800	42,100	41,200	36,600	37,100	37,100
3	50,300	42,400	31,400	21,800	35,600	34,400	41,800	41,800	40,300	36,100	38,500	37,100
4	48,600	42,100	31,800	21,800	33,800	34,600	43,000	40,900	39,400	36,400	37,900	36,600
5	46,800	41,500	31,800	22,300	33,800	34,100	44,200	40,600	37,400	36,100	37,900	36,400
6	45,400	40,900	29,900	21,800	32,400	34,100	45,100	39,400	37,400	35,800	38,200	35,600
7	44,500	41,200	29,500	21,600	31,100	33,800	44,500	38,500	39,100	35,800	37,900	35,400
8	43,900	40,900	28,100	21,600	31,600	33,600	44,500	39,400	41,200	35,800	37,900	35,600
9	42,700	40,900	27,400	21,000	31,400	33,400	44,800	40,000	44,500	35,800	38,500	35,400
10	48,500	40,300	28,100	20,600	30,600	33,600	44,500	39,100	42,100	35,800	40,600	35,400
11	78,200	40,000	28,100	19,800	29,900	33,400	45,100	40,600	42,100	35,800	40,900	36,100
12	82,200	39,700	27,900	18,800	30,200	33,600	45,800	43,300	44,800	36,400	38,800	38,200
13	66,700	39,100	28,800	18,500	32,100	34,100	46,100	44,200	44,500	36,400	37,600	38,500
14	53,200	39,700	29,000	18,500	34,800	34,100	47,800	41,200	43,000	36,100	40,600	38,200
15	47,500	41,200	28,600	18,500	36,100	34,100	48,200	41,500	43,000	35,800	40,300	37,400
16	43,600	40,900	27,700	20,000	36,100	33,600	46,400	40,600	41,200	35,100	42,100	36,600
17	42,700	39,700	27,000	28,500	35,800	33,600	46,400	42,700	41,800	35,400	40,900	36,400
18	42,100	40,600	26,600	31,000	40,000	33,400	45,400	46,400	41,500	36,100	38,800	36,600
19	41,500	40,000	24,800	33,000	44,200	33,400	45,800	71,800	40,000	37,600	37,100	36,800
20	41,200	40,300	23,200	32,100	44,500	33,800	44,800	75,000	38,200	37,400	36,100	36,800
21	40,000	43,900	22,000	31,100	43,600	34,800	45,100	50,300	38,500	37,100	35,800	37,100
22	40,000	49,600	21,600	30,800	41,500	37,100	44,800	49,200	38,200	36,800	36,100	36,400
23	39,400	47,800	21,800	31,400	37,100	39,400	45,100	48,200	38,200	36,600	36,400	36,600
24	38,800	46,100	23,200	31,600	36,100	43,900	44,800	40,900	40,900	36,400	36,100	37,600
25	38,500	44,800	25,400	31,400	34,400	43,000	43,000	40,000	43,300	36,400	35,800	37,900
26	38,500	44,800	25,400	32,100	32,800	43,900	42,700	41,200	40,000	36,800	35,800	37,400
27	38,800	40,300	25,400	32,600	32,600	44,500	42,400	44,500	36,600	37,100	35,800	37,100
28	38,500	37,400	25,900	32,800	34,400	43,000	42,100	44,500	37,100	37,100	36,100	37,100
29	37,900	34,400	26,100	32,800	------	43,000	45,800	42,400	36,800	37,100	36,100	37,100
30	37,400	32,100	25,900	33,600	------	42,700	43,000	50,000	35,600	37,100	36,100	37,100
31	37,400	------	24,500	35,600	------	41,500	------	48,600	------	37,100	36,100	------
TOTAL	1,440.0M	1,232.3M	839,700	812,500	990,700	1,135.7M	1,334.8M	1,390.1M	1,210.6M	1,128.0M	1,170.7M	1,104.2M
MEAN	46,450	41,080	27,090	26,210	35,380	36,640	44,490	44,840	40,350	36,390	37,760	36,810
MAX	82,200	49,600	31,800	35,600	44,500	44,500	48,200	75,000	44,800	37,600	42,100	38,500
MIN	37,400	32,100	21,600	18,500	29,900	33,400	40,000	38,500	35,600	35,100	35,800	35,400
AC-FT	2,856M	2,444M	1,666M	1,612M	1,965M	2,253M	2,648M	2,757M	2,401M	2,237M	2,322M	2,190M

CAL YR 1973 TOTAL 15,588,000 MEAN 42,710 MAX 82,200 MIN 21,600 AC-FT 30,920,000
WTR YR 1974 TOTAL 13,789,300 MEAN 37,780 MAX 82,200 MIN 18,500 AC-FT 27,350,000

M Expressed in thousands.

06811500 Little Nemaha River at Auburn, Nebr.

LOCATION.--Lat 40°23'33", long 95°48'46", in NE1/4NW1/4 sec.23, T.5 N., R.14 E., Nemaha County, 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).

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

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.

AVERAGE DISCHARGE.--25 years, 281 ft³/s (7.958 m³/s), 203,600 acre-ft/yr (0.251 km³/yr); median of yearly mean discharges, 200 ft³/s (5.664 m³/s), 145,000 acre-ft/yr (0.179 km³/yr).

EXTREMES.--Current year: Maximum discharge, 27,300 ft³/s (773 m³/s) Oct. 11, gage height, 24.50 ft (7.468 m); minimum daily, 37 ft³/s (1.05 m³/s) Aug. 1.
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.

REMARKS.--Records poor.

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	553	305	264	200	553	431	205	556	416	99	37	88
2	432	291	262	260	438	385	199	405	336	100	40	70
3	335	275	261	260	398	375	194	377	291	91	40	68
4	270	267	507	240	362	362	200	336	250	89	40	64
5	226	264	528	240	407	365	199	291	220	82	39	58
6	207	261	325	220	368	342	191	262	187	77	41	58
7	205	263	400	220	325	312	189	227	169	75	42	62
8	203	264	508	240	342	302	187	209	165	71	49	62
9	194	255	350	240	345	290	187	199	162	69	48	60
10	11,400	247	308	240	324	280	188	210	169	66	69	58
11	25,700	246	320	330	331	272	191	996	167	69	85	58
12	9,760	248	330	220	374	283	220	865	176	64	65	71
13	2,490	252	418	220	391	291	228	438	178	59	57	62
14	1,540	251	388	220	386	277	203	1,340	171	56	52	59
15	1,070	245	250	220	361	272	222	428	154	53	90	56
16	832	237	300	250	342	269	227	296	149	50	124	53
17	718	232	370	450	347	256	212	539	146	48	181	53
18	640	229	350	900	365	250	197	2,240	142	46	141	52
19	598	224	310	1,630	367	250	189	1,410	141	45	93	52
20	559	447	320	989	344	243	212	692	138	45	79	52
21	516	753	440	1,180	342	241	229	387	133	43	66	48
22	459	558	400	1,090	369	258	194	269	121	46	65	46
23	432	356	370	696	373	250	174	231	114	47	63	46
24	421	594	425	569	336	250	167	214	110	47	60	46
25	389	484	676	687	300	246	164	206	108	47	61	44
26	366	364	646	1,430	348	247	162	214	104	47	59	46
27	339	336	488	1,110	499	249	164	236	102	44	58	46
28	321	306	410	720	545	243	221	269	100	45	60	45
29	310	279	310	636	------	234	2,290	240	97	44	59	41
30	308	269	260	739	------	222	1,250	212	97	41	59	41
31	311	------	190	782	------	214	------	407	------	38	92	------
TOTAL	62,104	9,602	11,684	17,428	10,582	8,761	9,055	15,201	5,013	1,843	2,114	1,665
MEAN	2,003	320	377	562	378	283	302	490	167	59.5	68.2	55.5
MAX	25,700	753	676	1,630	553	431	2,290	2,240	416	100	181	88
MIN	194	224	190	200	300	214	162	199	97	38	37	41
AC-FT	123,200	19,050	23,180	34,570	20,990	17,380	17,960	30,150	9,940	3,660	4,190	3,300

CAL YR 1973 TOTAL 267,631 MEAN 733 MAX 25,700 MIN 60 AC-FT 530,800
WTR YR 1974 TOTAL 155,052 MEAN 425 MAX 25,700 MIN 37 AC-FT 307,500

PEAK DISCHARGE (BASE, 5,000 FT³/S).--Oct. 11 (1100) 27,300 ft³/s (24.50 ft).

06813500 Missouri River at Rulo, Nebr.

LOCATION.--Lat 40°03'14", long 95°25'12", in NW1/4NW1/4 sec.17, T.1 N., R.18 E., Richardson County, 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.--418,900 mi² (1,085,000 km²), approximately.

PERIOD OF RECORD.--October 1949 to current year in reports of Geological Survey. Gage-height record collected at site 80 ft upstream January 1836 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.

AVERAGE DISCHARGE.--25 years, 38,650 ft³/s (1,095 m³/s), 28,000,000 acre-ft/yr (34.5 km³/yr).

EXTREMES.--Current year: Maximum discharge, 125,000 ft³/s (3,540 m³/s) Oct. 12, gage height, 23.41 ft (7.135 m), backwater from Nemaha River; minimum daily, 21,000 ft³/s (595 m³/s) Jan. 13-16; minimum gage height, 6.51 ft (1.984 m) Jan. 3.
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.
Flood in 1881 reached a stage of 22.9 ft (6.98 m), from floodmark, discharge not determined.

REMARKS.--Records good except those for period of backwater from Nemaha River and for winter period, which are poor. Flow partly regulated by upstream main-stem reservoirs.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58,500	43,500	38,900	27,100	46,700	39,600	44,900	47,100	54,900	37,900	38,400	35,600
2	63,000	45,200	37,900	26,900	44,600	39,600	46,000	46,700	49,100	38,600	38,600	37,400
3	57,200	47,900	37,400	26,700	41,000	39,400	47,100	47,500	45,600	38,400	39,400	37,200
4	54,400	47,500	41,300	26,900	38,400	41,300	47,900	46,000	44,600	38,400	39,900	36,900
5	52,600	47,500	45,600	27,100	37,600	41,000	50,800	45,200	42,500	38,600	39,200	35,600
6	50,400	45,600	38,400	26,900	37,900	39,900	51,300	45,200	40,400	38,200	39,400	36,400
7	50,000	45,200	35,000	26,700	35,600	39,200	50,800	43,200	43,200	37,900	39,400	36,600
8	50,400	44,600	33,600	26,500	35,000	39,400	48,700	43,500	44,200	37,900	39,200	36,600
9	49,100	44,900	32,900	26,000	35,400	39,400	49,100	44,600	67,500	37,900	39,400	36,600
10	65,100	44,600	32,500	25,000	35,200	39,200	47,900	43,800	57,200	37,600	41,300	36,600
11	100,000	43,200	32,500	24,000	34,300	39,200	47,900	44,900	48,700	37,600	42,800	36,600
12	122,000	43,200	32,200	22,500	34,000	38,900	49,100	49,500	48,700	37,900	41,300	38,400
13	102,000	43,200	33,200	21,000	35,000	39,200	49,100	50,000	51,300	38,400	39,600	39,900
14	75,000	42,500	34,300	21,000	37,600	39,400	50,000	50,400	46,700	38,200	40,700	38,900
15	65,000	43,500	33,400	21,000	39,200	39,400	52,200	47,100	46,700	37,900	45,600	38,600
16	60,500	43,800	31,600	21,000	38,200	39,200	51,300	46,300	45,600	37,400	44,200	37,600
17	54,900	42,800	30,900	24,000	37,600	39,200	50,000	50,400	44,600	37,200	43,500	36,900
18	51,300	43,500	31,100	34,000	39,600	39,200	47,900	62,500	44,900	36,900	41,600	37,200
19	49,100	43,800	29,900	38,000	50,800	39,200	47,100	72,000	44,200	37,600	39,400	38,200
20	48,300	43,800	27,700	40,000	48,300	39,400	46,300	87,800	41,300	38,200	37,900	38,400
21	46,700	48,700	26,900	39,000	47,900	39,900	58,000	66,500	41,300	37,600	36,900	38,400
22	46,000	54,000	26,700	38,000	44,900	41,900	50,400	57,200	41,000	37,400	36,600	38,400
23	45,200	53,100	26,700	37,000	40,700	45,200	49,100	59,500	41,000	37,200	36,900	37,900
24	43,800	50,800	27,700	38,000	36,900	49,100	49,100	52,600	42,000	36,900	36,900	38,200
25	42,800	50,400	32,500	42,000	37,200	49,500	47,900	49,100	44,000	37,200	36,900	38,200
26	41,900	50,000	32,900	46,000	35,900	48,700	47,900	49,500	46,000	37,400	36,200	38,200
27	41,900	48,300	31,100	44,000	36,200	50,000	47,100	50,800	40,400	37,600	36,400	37,400
28	41,900	46,300	30,700	42,800	37,600	48,300	46,700	53,100	39,600	37,900	36,400	37,600
29	42,200	43,200	30,700	41,600	------	47,500	50,800	50,400	39,400	37,900	36,200	37,600
30	41,900	41,000	30,300	41,900	------	48,300	54,400	54,400	38,400	38,400	36,400	37,900
31	42,800	------	28,700	44,600	------	46,700	------	66,000	------	38,600	36,400	------
TOTAL	1,755.9M	1,375.6M	1,015.2M	987,200	1,099.3M	1,305.4M	1,476.8M	1,622.8M	1,365.0M	1,172.8M	1,213.0M	1,128.0M
MEAN	56,640	45,850	32,750	31,850	39,260	42,110	49,230	52,350	45,500	37,830	39,130	37,600
MAX	122,000	54,000	45,600	46,000	50,800	50,000	58,000	87,800	67,500	38,600	45,600	39,900
MIN	41,900	41,000	26,700	21,000	34,000	38,900	44,900	43,200	38,400	36,900	36,200	36,400
AC-FT	3,483M	2,729M	2,014M	1,958M	2,180M	2,589M	2,929M	3,219M	2,707M	2,326M	2,406M	2,237M

CAL YR 1973 TOTAL 18,567,600 MEAN 50,870 MAX 122,000 MIN 24,000 AC-FT 36,830,000
WTR YR 1974 TOTAL 15,517,000 MEAN 42,510 MAX 122,000 MIN 21,000 AC-FT 30,780,000

M Expressed in thousands.
NOTE.--Backwater from Nemaha River Oct. 10-15.

06814000 Turkey Creek near Seneca, Kans.

LOCATION.--Lat 39°56'52", long 96°06'30", in SW1/4NW1/4SW1/4 sec.20, T.1 S., R.12 E., Nemaha County, 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.

AVERAGE DISCHARGE.--26 years, 125 ft³/s (3.540 m³/s), 90,560 acre-ft/yr (0.112 km³/yr).

EXTREMES.--Current year: Maximum discharge, 21,400 ft³/s (606 m³/s) Oct. 11, gage height, 24.77 ft (7.550 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Sept. 29, 30.
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.

REMARKS.--Records good except those for January and July thru September, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	452	66	75	100	128	159	56	72	53	19	4.2	11
2	302	84	75	90	113	135	54	59	49	17	4.1	8.1
3	231	76	76	80	104	130	54	61	46	16	4.0	6.0
4	185	73	212	90	93	132	52	69	43	20	4.0	3.9
5	152	71	360	95	125	158	51	57	43	16	3.9	3.2
6	136	69	206	90	104	131	49	50	141	15	3.8	3.0
7	131	72	132	85	76	106	49	48	135	14	3.8	2.5
8	120	71	150	85	98	109	47	46	138	12	4.0	3.6
9	106	66	172	80	112	103	46	50	193	11	4.7	1.9
10	2,120	62	180	80	86	91	46	56	106	10	6.8	1.6
11	16,700	62	154	80	100	90	49	172	69	9.5	5.5	1.4
12	8,040	64	241	85	111	94	56	234	58	9.0	5.4	10
13	840	66	381	90	107	90	55	78	54	8.4	6.2	9.0
14	440	65	267	100	100	86	49	431	50	7.8	5.8	4.0
15	331	62	148	110	93	86	46	216	44	7.4	5.6	2.5
16	262	59	136	120	90	83	48	88	38	7.0	6.9	2.2
17	219	57	153	500	92	78	46	1,360	36	6.6	6.9	2.0
18	197	55	147	800	96	78	44	419	36	6.2	8.7	1.8
19	180	55	114	650	94	75	44	489	35	5.8	7.5	1.7
20	163	158	107	484	88	72	160	192	32	5.5	5.9	1.6
21	150	601	136	589	89	67	397	149	28	5.2	5.2	1.5
22	140	209	122	338	109	77	122	123	25	5.0	4.5	1.4
23	132	116	119	212	114	62	80	104	23	4.8	4.0	1.3
24	125	203	260	188	76	68	66	92	22	4.8	3.7	1.4
25	115	160	1,010	191	96	70	62	85	23	4.7	3.5	1.4
26	107	113	438	215	113	69	60	85	23	4.6	3.4	1.3
27	102	105	241	211	177	65	58	82	19	4.6	3.3	1.3
28	97	90	195	170	216	66	56	75	19	4.5	3.1	1.3
29	94	80	158	152	------	65	132	103	20	4.5	3.1	1.2
30	93	79	129	152	------	61	144	69	20	4.4	6.0	1.2
31	92	------	103	147	------	60	------	59	------	4.3	30	------
TOTAL	32,554	3,169	6,397	6,459	3,000	2,816	2,278	5,273	1,621	274.6	177.5	94.3
MEAN	1,050	106	206	208	107	90.8	75.9	170	54.0	8.86	5.73	3.14
MAX	16,700	601	1,010	800	216	159	397	1,360	193	20	30	11
MIN	92	55	75	80	76	60	44	46	19	4.3	3.1	1.2
AC-FT	64,570	6,290	12,690	12,810	5,950	5,590	4,520	10,460	3,220	545	352	187

CAL YR 1973 TOTAL 138,871.5 MEAN 380 MAX 16,700 MIN 8.8 AC-FT 275,500
WTR YR 1974 TOTAL 64,113.4 MEAN 176 MAX 16,700 MIN 1.2 AC-FT 127,200

PEAK DISCHARGE (BASE, 3,100 FT³/S).--October 11 (1100) 21,400 ft³/s (24.77 ft).

06814500 North Fork Big Nemaha River at Humboldt, Nebr.

LOCATION.--Lat 40°09'25", long 95°56'40", in N1/2 sec.10, T.2 N., R.13 E., Richardson County, on right pile bent of bridge on State Highway 105 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.

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.

AVERAGE DISCHARGE.--22 years, 193 ft³/s (5.466 m³/s), 139,800 acre-ft/yr (0.172 km³/yr); median of yearly mean discharges, 160 ft³/s (4.531 m³/s), 116,000 acre-ft/yr (0.143 km³/yr).

EXTREMES.--Current year: Maximum discharge, 31,800 ft³/s (901 m³/s) Oct. 11, gage height, 25.00 ft (7.620 m), from graph based on gage readings and partial record; minimum daily, 23 ft³/s (0.65 m³/s) July 26.

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.

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

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	505	155	107	160	253	267	103	227	74	43	27	46
2	358	152	107	160	205	240	101	143	69	34	30	38
3	262	142	113	155	175	232	102	150	67	37	25	37
4	188	140	1,060	150	160	294	99	121	69	40	30	32
5	165	138	575	165	230	264	95	111	69	32	26	29
6	160	138	254	170	181	190	94	101	130	26	35	30
7	160	138	180	175	146	168	95	96	134	30	33	28
8	155	128	248	170	130	177	89	98	270	30	30	30
9	145	123	293	165	155	165	89	114	352	31	30	30
10	12,900	117	237	160	180	142	87	120	164	32	95	30
11	24,600	115	234	145	176	141	94	586	120	32	67	30
12	4,240	117	372	150	176	149	105	468	80	30	37	57
13	1,320	121	585	160	179	140	102	359	76	32	28	36
14	776	117	304	250	175	138	99	1,260	74	27	27	30
15	610	115	188	325	163	142	93	210	68	28	34	29
16	367	109	172	450	155	131	99	148	62	27	48	30
17	290	107	223	1,400	157	125	96	786	61	26	47	28
18	251	107	233	2,000	166	125	96	237	64	25	36	28
19	237	107	154	1,060	164	119	94	323	66	26	34	28
20	203	634	120	750	161	114	284	168	61	25	28	28
21	192	870	140	906	174	113	372	124	50	24	27	27
22	182	290	150	625	190	110	129	106	42	27	29	27
23	180	172	170	316	190	102	99	94	41	32	27	27
24	178	465	500	278	138	110	92	87	42	24	27	27
25	168	262	1,100	322	151	115	94	89	45	26	33	26
26	160	168	426	559	210	116	95	89	44	23	27	26
27	160	152	296	546	325	113	98	93	45	26	27	26
28	158	130	240	344	391	115	108	98	44	25	26	26
29	150	119	182	281	------	113	247	91	44	26	27	26
30	150	113	170	293	------	105	595	87	40	27	28	26
31	158	------	168	292	------	106	------	79	------	24	71	------
TOTAL	49,728	5,761	9,301	13,092	5,256	4,681	4,045	6,863	2,567	897	1,096	918
MEAN	1,604	192	300	422	188	151	135	221	85.6	28.9	35.4	30.6
MAX	24,600	870	1,100	2,000	391	294	595	1,260	352	43	95	57
MIN	145	107	107	145	130	102	87	79	40	23	25	26
AC-FT	98,640	11,430	18,450	25,970	10,430	9,280	8,020	13,610	5,090	1,780	2,170	1,820

CAL YR 1973 TOTAL 234,019 MEAN 641 MAX 24,600 MIN 45 AC-FT 464,200
WTR YR 1974 TOTAL 104,205 MEAN 285 MAX 24,600 MIN 23 AC-FT 206,700

PEAK DISCHARGE (BASE, 5,000 FT³/S).--Oct. 11 (1000) 31,800 ft³/s (25.00 ft).

06815000 Big Nemaha River at Falls City, Nebr.

LOCATION.--Lat 40°02'00", long 95°35'30", on line between secs.22 and 23, T.1 N., R.16 E., Richardson County, 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).

PERIOD OF RECORD.--March 1944 to current year. Prior to October 1965, published as Nemaha River at Falls City.

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.

AVERAGE DISCHARGE.--30 years, 590 ft³/s (16.71 m³/s), 427,500 acre-ft/yr (0.527 km³/yr); median of yearly mean discharges, 470 ft³/s (13.31 m³/s), 341,000 acre-ft/yr (0.420 km³/yr).

EXTREMES.--Current year: Maximum discharge, 71,600 ft³/s (2,030 m³/s) Oct. 11, gage height, 31.40 ft (9.571 m); minimum daily, 55 ft³/s (1.56 m³/s) Sept. 29.
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.

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

REVISIONS.--WSP 1086: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,280	526	356	640	940	1,040	356	990	303	145	62	167
2	1,700	510	359	600	745	815	380	602	275	154	71	158
3	1,200	470	331	580	570	795	370	530	282	156	67	96
4	995	443	2,720	600	558	865	348	486	237	167	67	81
5	900	422	3,630	620	538	890	334	370	229	170	71	73
6	725	401	1,230	640	436	755	324	345	272	167	80	72
7	637	404	418	640	420	740	317	292	229	158	83	71
8	745	384	720	600	460	980	317	328	1,080	137	85	72
9	770	370	870	580	514	900	314	348	10,000	133	88	71
10	15,600	356	800	560	530	755	324	440	2,940	133	107	70
11	57,600	356	725	560	514	614	314	432	940	135	125	70
12	46,300	342	830	580	542	578	320	915	715	125	104	158
13	11,100	345	1,310	620	538	554	306	735	578	111	87	94
14	3,290	345	1,300	800	546	546	300	1,390	510	96	88	101
15	2,320	334	820	1,100	530	534	296	376	436	97	257	83
16	1,820	314	446	1,300	498	530	292	359	373	101	147	75
17	1,550	266	401	2,500	498	486	286	3,520	345	91	111	70
18	1,390	254	390	5,000	506	478	286	3,530	328	87	94	69
19	1,120	257	370	4,520	506	482	282	2,200	314	85	94	65
20	1,120	978	360	4,000	506	470	842	1,730	292	77	84	66
21	1,430	3,200	410	5,110	578	429	4,200	990	251	75	72	60
22	1,290	1,410	450	2,450	566	426	1,770	432	216	83	71	59
23	975	691	560	1,520	590	401	760	522	163	78	78	62
24	800	790	1,300	1,270	432	398	566	474	172	83	69	60
25	725	930	4,620	1,160	366	404	506	415	183	77	72	60
26	673	700	2,180	1,150	650	404	446	429	193	67	73	59
27	642	432	1,130	1,220	1,300	415	502	401	193	67	73	61
28	745	443	850	1,090	1,280	415	458	394	180	63	71	59
29	558	462	790	940	------	408	450	390	167	63	66	55
30	554	380	740	885	------	387	780	632	172	61	71	57
31	550	------	700	990	------	370	------	338	------	60	158	------
TOTAL	162,104	17,515	32,116	44,825	16,657	18,264	17,346	25,335	22,568	3,302	2,846	2,374
MEAN	5,229	584	1,036	1,446	595	589	578	817	752	107	91.8	79.1
MAX	57,600	3,200	4,620	5,110	1,300	1,040	4,200	3,530	10,000	170	257	167
MIN	550	254	331	560	366	370	282	292	163	60	62	55
AC-FT	321,500	34,740	63,700	88,910	33,040	36,230	34,410	50,250	44,760	6,550	5,650	4,710

CAL YR 1973 TOTAL 676,439 MEAN 1,853 MAX 57,600 MIN 141 AC-FT 1,342,000
WTR YR 1974 TOTAL 365,252 MEAN 1,001 MAX 57,600 MIN 55 AC-FT 724,500

PEAK DISCHARGE (BASE, 15,000 FT³/S).--Oct. 11 (2100) 71,600 ft³/s (31.40 ft).

06821500 Arikaree River at Haigler, Nebr.

LOCATION.--Lat 40°01'45", long 101°58'10", in NE1/4NE1/4 sec.29, T.1 N., R.41 W., Dundy County, on left bank 57 ft (17 m) downstream from bridge on U.S. Highway 34, 1.3 mi (2.1 km) upstream from Burlington 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 WSP 1310.

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.

AVERAGE DISCHARGE.--43 years, 25.3 ft³/s (0.716 m³/s), 18,330 acre-ft/yr (22.6 hm³/yr); median of yearly mean discharges, 21 ft³/s (0.595 m³/s), 15,200 acre-ft/yr (18.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 478 ft³/s (13.5 m³/s) June 9, gage height, 5.33 ft (1.625 m); no flow Aug. 27.
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.

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

REVISIONS (WATER YEARS).--WSP 1919: 1951, 1954, 1956, 1960. WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	11	18	5.2	38	25	23	20	18	.92	.34	3.3
2	11	9.6	18	5.6	40	24	20	33	17	.84	.34	3.9
3	10	9.1	18	5.6	35	22	19	25	14	.60	.29	4.8
4	24	13	15	6.0	35	22	22	31	8.2	.62	.24	4.5
5	23	16	9.1	6.0	32	22	21	19	6.1	.58	.24	1.8
6	22	15	6.1	6.2	14	22	22	15	5.8	.60	.13	.21
7	21	15	12	6.6	18	21	39	13	5.5	.60	.16	.05
8	20	14	26	6.8	24	22	49	22	44	.85	.26	.22
9	7.6	13	17	7.0	27	18	30	17	284	.92	.24	.45
10	4.7	14	12	7.0	34	21	27	17	75	1.0	.22	1.1
11	17	13	19	7.2	45	30	23	20	43	1.1	.13	1.9
12	27	13	19	7.2	50	40	28	14	35	.71	.08	3.2
13	17	13	16	7.6	35	38	51	13	34	.60	.08	5.6
14	15	12	17	8.0	32	35	62	8.9	27	.61	.20	6.6
15	13	11	12	10	28	30	43	8.9	21	.96	.34	8.7
16	11	11	9.9	12	28	26	35	8.3	19	1.2	.43	9.6
17	11	12	21	15	27	26	30	7.8	24	1.3	.47	11
18	11	12	12	20	27	24	29	10	30	1.2	.34	11
19	10	12	6.9	25	26	32	27	10	20	.60	.08	7.7
20	9.8	6.7	6.4	25	29	29	28	7.0	8.6	.60	.02	6.2
21	9.6	4.6	7.8	27	28	23	30	4.3	4.0	.60	.15	5.2
22	8.8	5.9	6.3	27	29	26	26	3.5	3.1	.60	1.0	5.2
23	9.1	17	6.0	29	29	18	24	3.4	2.1	.60	1.5	5.6
24	8.5	20	5.8	29	18	34	22	5.9	1.6	.64	1.1	5.1
25	6.5	19	6.0	30	29	33	23	13	1.2	.56	.35	4.0
26	7.5	23	6.2	31	30	27	21	27	1.0	.50	.05	3.4
27	8.4	24	5.8	32	27	24	18	16	1.1	.50	0	3.3
28	9.2	15	5.8	32	25	23	17	11	1.1	.44	.48	3.8
29	11	22	5.4	33	------	20	17	50	.96	.44	2.5	5.7
30	10	22	5.0	34	------	18	17	49	.76	.39	3.3	7.4
31	10	------	5.0	34	------	20	------	23	------	.34	2.9	------
TOTAL	398.7	417.9	355.5	537.0	839	795	843	526.0	756.12	22.02	17.96	140.53
MEAN	12.9	13.9	11.5	17.3	30.0	25.6	28.1	17.0	25.2	.71	.58	4.68
MAX	27	24	26	34	50	40	62	50	284	1.3	3.3	11
MIN	4.7	4.6	5.0	5.2	14	18	17	3.4	.76	.34	0	.05
AC-FT	791	829	705	1,070	1,660	1,580	1,670	1,040	1,500	44	36	279

CAL YR 1973 TOTAL 8,503.29 MEAN 23.3 MAX 1,020 MIN .12 AC-FT 16,870
WTR YR 1974 TOTAL 5,648.73 MEAN 15.5 MAX 284 MIN 0 AC-FT 11,200

PEAK DISCHARGE (BASE, 800 FT³/S).--No peak above base.

06823000 North Fork Republican River at Colorado-Nebraska State line

LOCATION.--Lat 40°04'10", long 102°03'05", in sec.10, T.1 N., R.42 W., Dundy County, Nebr., 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.

DRAINAGE AREA.--1,360 mi² (3,520 km²), approximately, of which about 100 mi² (260 km²) contributes directly to surface runoff.

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 control 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.--44 years, 49.0 ft³/s (1.388 m³/s), 35,500 acre-ft/yr (43.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 177 ft³/s (5.01 m³/s) June 9, gage height, 2.12 ft (0.646 m); maximum gage height, 3.54 ft (1.079 m). Jan. 1, backwater from ice; minimum daily discharge, 4.0 ft³/s (0.11 m³/s) May 21, 22.
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.

REMARKS.--Records good. Natural flow affected by diversion in Pioneer Canal for irrigation of about 2,700 acres (10.9 km²) in Colorado and Nebraska.

REVISIONS (WATER YEARS).--WSP 1240: 1947(M). WSP 1390: 1934. WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	64	62	60	73	70	67	26	9.5	11	6.0	5.9
2	70	64	65	58	72	67	65	34	12	11	5.6	6.7
3	54	65	64	56	71	65	66	29	12	8.7	9.4	6.8
4	46	68	63	50	70	65	65	27	14	8.7	8.8	6.2
5	47	69	65	52	71	64	64	51	11	8.5	13	6.4
6	46	69	64	54	67	65	64	53	8.3	13	8.2	6.3
7	45	68	66	54	65	65	75	41	12	8.0	7.1	6.7
8	51	67	68	56	64	63	86	22	50	8.0	8.9	6.2
9	60	69	67	58	66	63	78	20	146	7.2	11	6.3
10	60	68	67	60	70	64	70	9.6	92	6.3	14	6.3
11	73	69	68	60	71	71	67	7.6	65	11	18	7.4
12	80	69	68	62	71	75	69	6.7	49	10	19	8.9
13	72	69	67	65	71	77	83	5.4	47	11	21	10
14	68	67	66	68	70	74	93	6.2	48	8.4	21	11
15	63	65	65	74	70	70	85	6.2	44	8.7	21	11
16	61	65	64	78	69	65	75	5.8	41	11	24	7.9
17	59	65	66	80	70	65	73	5.9	18	12	24	8.5
18	60	65	69	82	70	64	70	6.7	18	12	22	23
19	59	65	60	83	69	68	68	5.4	19	7.4	16	21
20	59	67	54	81	73	71	69	4.5	17	6.3	8.6	22
21	58	70	58	83	77	65	67	4.0	13	4.5	11	23
22	58	71	66	76	71	65	66	4.0	11	8.7	10	25
23	60	71	70	72	73	65	60	4.5	10	7.8	11	25
24	61	70	72	71	71	68	62	5.3	11	8.7	10	22
25	58	70	68	73	70	69	61	7.6	11	10	10	13
26	61	68	70	73	71	68	62	24	11	9.5	13	12
27	61	65	67	74	73	67	60	25	10	9.7	13	11
28	61	65	66	72	73	66	57	24	14	11	14	8.5
29	62	66	66	71	------	64	58	22	9.5	9.7	12	8.4
30	61	66	66	71	------	61	56	24	10	8.1	9.3	9.1
31	62	------	66	72	------	64	------	19	------	6.6	7.4	------
TOTAL	1,867	2,019	2,033	2,099	1,972	2,073	2,061	537.4	843.3	282.5	407.3	351.5
MEAN	60.2	67.3	65.6	67.7	70.4	66.9	68.7	17.3	28.1	9.11	13.1	11.7
MAX	80	71	72	83	77	77	93	53	146	13	24	25
MIN	45	64	54	50	64	61	56	4.0	8.3	4.5	5.6	5.9
AC-FT	3,700	4,000	4,030	4,160	3,910	4,110	4,090	1,070	1,670	560	808	697

CAL YR 1973 TOTAL 19,177.6 MEAN 52.5 MAX 208 MIN 4.0 AC-FT 38,040
WTR YR 1974 TOTAL 16,546.0 MEAN 45.3 MAX 146 MIN 4.0 AC-FT 32,820

PEAK DISCHARGE (BASE, 130 FT³/S).--June 9 (0730) 177 ft³/s (2.12 ft).

06823500 Buffalo Creek near Haigler, Nebr.

LOCATION.--Lat 40°02'45", long 101°52'15", in NW1/4NW1/4 sec.20, T.1 N., R.40 W., Dundy County, 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.

GAGE.--Water-stage recorder. Concrete control since June 1954. Datum of gage is 3,204.57 ft (976.753 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 7.94 ft³/s (0.225 m³/s), 5,750 acre-ft/yr (7.09 hm³/yr).

EXTREMES.--Current year: Maximum discharge, about 25 ft³/s (0.71 m³/s) Dec. 20, gage height, unknown, backwater from ice; maximum gage height, 5.45 ft (1.661 m) Jan. 19, backwater from ice; no flow May 20,21, Aug. 28-30.
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 recorded, 5.78 ft (1.762 m) Mar. 7, 1960, backwater from ice; no flow at times in 1955, 1968, 1973-74.

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).

REVISIONS (WATER YEARS).--WSP 2119: 1948-50(M), 1957(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	9.3	7.9	8.6	12	10	10	8.3	.25	.14	.17	.25
2	6.3	8.8	7.5	8.0	12	9.7	9.7	7.8	.17	.12	.16	.24
3	6.1	9.3	6.7	7.6	11	9.2	9.7	7.3	.13	.09	.18	.22
4	6.0	11	6.6	7.6	11	9.3	10	7.3	.12	.08	.13	.21
5	6.0	12	6.0	7.6	11	9.6	9.8	6.7	.11	.06	.24	.23
6	6.0	10	6.5	7.8	10	9.1	9.7	6.1	.08	.03	.21	.20
7	6.2	10	7.0	7.8	9.2	9.2	10	5.9	.01	.36	.03	.13
8	6.6	10	7.1	8.0	10	9.2	11	5.9	7.2	.62	.06	.13
9	6.3	9.6	6.8	8.2	11	8.9	10	6.0	16	.59	.04	.15
10	6.3	9.7	8.9	8.2	11	9.7	10	6.0	14	.59	.10	.32
11	9.4	9.2	7.6	8.4	11	11	10	2.5	13	.57	.11	.19
12	9.0	9.0	5.2	8.4	11	12	10	.13	12	.52	.14	.16
13	8.3	8.5	4.5	9.6	10	12	11	.07	10	.53	.12	.16
14	7.5	8.6	7.6	10	10	11	12	.03	8.8	.37	.11	.13
15	7.2	7.7	7.7	11	10	12	11	.02	8.5	.22	.11	.16
16	7.1	8.3	7.6	13	9.7	9.9	10	.01	7.9	.17	.13	.18
17	7.5	8.5	8.4	14	10	10	10	.04	5.9	.13	.11	.18
18	7.1	8.3	6.5	14	9.5	9.5	10	.04	6.7	.11	.11	.20
19	6.6	8.7	.06	13	9.5	11	9.9	.02	3.5	.11	.09	.25
20	6.6	1.5	15	12	10	10	9.9	0	3.2	.10	.07	.33
21	6.6	13	13	12	11	11	9.7	0	2.9	.09	.10	.38
22	6.8	12	12	12	13	9.7	9.6	.08	1.5	.18	.06	.36
23	6.3	10	10	11	11	10	9.4	.13	.27	.11	.05	.34
24	4.2	10	9.4	11	10	11	9.1	.17	.62	.11	.03	4.0
25	6.8	9.6	11	11	10	10	9.0	.14	.42	.11	.01	3.7
26	9.0	9.3	13	13	11	9.9	8.8	.09	.14	.09	.01	3.6
27	9.0	8.9	12	13	11	9.3	8.7	.05	.13	.09	.01	3.0
28	9.0	9.0	11	13	10	9.2	8.6	.02	.11	.12	0	2.9
29	8.9	8.6	10	13	------	8.3	8.6	.01	.09	.13	0	3.0
30	8.6	8.2	9.4	13	------	8.4	8.5	.21	.09	.13	0	2.2
31	9.2	------	9.0	12	------	8.6	------	.37	------	.16	.02	------
TOTAL	223.8	276.6	260.96	326.8	295.9	307.7	293.7	71.43	123.84	6.83	2.71	27.50
MEAN	7.22	9.22	8.42	10.5	10.6	9.93	9.79	2.30	4.13	.22	.087	.92
MAX	9.4	13	15	14	13	12	12	8.3	16	.62	.24	4.0
MIN	4.2	1.5	.06	7.6	9.2	8.3	8.5	0	.01	.03	0	.13
AC-FT	444	549	518	648	587	610	583	142	246	14	5.4	55

CAL YR 1973 TOTAL 2,366.60 MEAN 6.48 MAX 18 MIN 0 AC-FT 4,690
WTR YR 1974 TOTAL 2,217.77 MEAN 6.08 MAX 16 MIN 0 AC-FT 4,400

PEAK DISCHARGE (BASE, 20 FT³/S).--Dec. 20 about 25 ft³/s.

06824000 Rock Creek at Parks, Nebr.

LOCATION.--Lat 40°02'30", long 101°43'40", in SW1/4NE1/4 sec.21, T.1 N., R.39 W., Dundy County, 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.

GAGE.--Water-stage recorder. Datum of gage is 3,093.35 ft (942.853 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 14.3 ft³/s (0.405 m³/s), 10,360 acre-ft/yr (12.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 37 ft³/s (1.05 m³/s) June 9, gage height, 2.17 ft (0.661 m); maximum gage height, 3.06 ft (0.933 m) Dec. 31, backwater from ice; minimum daily discharge, 9.2 ft³/s (0.26 m³/s) Aug. 20.
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, 3.1 ft³/s (0.088 m³/s) Feb. 19-23, 1943, Oct. 3, 1959.

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.

REVISIONS (WATER YEARS).--WSP 1630: 1951(M). WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	13	15	12	16	14	15	12	13	10	10	11
2	15	15	14	11	16	14	14	13	13	10	10	11
3	15	14	14	11	16	13	15	13	13	9.7	9.9	11
4	14	14	14	12	16	13	15	13	13	9.8	10	11
5	14	14	14	12	16	13	14	13	13	9.6	10	11
6	13	14	14	12	16	14	15	12	12	9.4	11	11
7	13	14	14	12	15	14	15	12	14	9.3	11	11
8	13	14	14	13	15	14	16	12	24	9.3	12	11
9	13	14	14	13	15	13	15	13	33	9.6	12	11
10	13	14	15	13	15	14	15	13	25	9.9	11	11
11	13	14	14	13	15	15	14	13	20	10	11	11
12	14	14	14	13	15	16	15	13	17	11	11	12
13	14	14	14	14	15	16	17	12	15	10	11	12
14	14	15	14	15	15	15	17	12	15	10	11	12
15	14	14	14	17	15	14	16	10	14	10	11	12
16	13	14	14	18	14	14	16	10	14	10	11	13
17	13	14	14	18	14	15	15	15	13	9.6	11	13
18	13	14	13	17	14	15	16	14	13	9.4	11	12
19	13	15	11	17	14	16	13	13	13	9.5	9.8	12
20	12	16	10	17	15	16	14	12	12	9.3	9.2	12
21	12	16	12	16	15	15	14	12	12	9.4	9.6	12
22	12	16	18	16	15	15	14	12	11	11	9.8	12
23	11	15	18	16	15	16	14	12	11	11	10	12
24	11	15	17	16	15	16	14	12	11	11	10	12
25	10	15	17	18	14	15	13	15	11	11	9.8	12
26	10	15	17	18	15	15	13	14	11	10	10	12
27	11	15	16	18	15	15	14	13	10	9.8	10	12
28	12	14	16	17	14	15	14	13	11	10	10	12
29	13	14	16	17	------	15	13	14	11	10	12	12
30	13	14	15	16	------	14	12	13	10	10	12	12
31	13	------	15	16	------	14	------	13	------	9.9	11	------
TOTAL	400	433	451	464	420	453	437	393	428	308.5	328.1	351
MEAN	12.9	14.4	14.5	15.0	15.0	14.6	14.6	12.7	14.3	9.95	10.6	11.7
MAX	16	16	18	18	16	16	17	15	33	11	12	13
MIN	10	13	10	11	14	13	12	10	10	9.3	9.2	11
AC-FT	793	859	895	920	833	899	867	780	849	612	651	696

CAL YR 1973 TOTAL 4,957.4 MEAN 13.6 MAX 19 MIN 7.5 AC-FT 9,830
WTR YR 1974 TOTAL 4,866.6 MEAN 13.3 MAX 33 MIN 9.2 AC-FT 9,650

PEAK DISCHARGE (BASE, 25 FT³/S).--June 9 (0900) 37 ft³/s (2.17 ft).

06824500 Republican River at Benkelman, Nebr.

LOCATION.--Lat 40°01'55", long 101°32'30", in SE1/4SW1/4 sec.19, T.1 N., R.37 W., Dundy County, 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.

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.

AVERAGE DISCHARGE.--33 years, 92.4 ft³/s (2.617 m³/s), 66,940 acre-ft/yr (82.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 620 ft³/s (17.6 m³/s) June 9, gage height, 3.66 ft (1.116 m); maximum gage height, 3.89 ft (1.186 m). Jan. 21,22, backwater from ice; no flow July 18-20.
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.
Maximum stage since at least 1826, 13.1 ft (3.99 m) May 31, 1935, from elevations furnished by State Highway Department.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation developments above station.

REVISIONS (WATER YEARS).--WSP 1310: 1895. WSP 1919: 1952, 1956. WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	88	119	86	155	123	120	90	49	13	1.1	4.4
2	102	90	113	84	155	124	121	72	44	12	1.3	5.3
3	96	89	115	84	165	123	124	74	43	10	.95	5.0
4	82	97	114	84	158	118	115	69	36	7.8	1.0	5.2
5	77	106	107	84	155	118	115	66	30	6.0	1.2	6.7
6	78	107	89	84	145	119	115	83	28	4.6	1.8	7.6
7	78	101	101	84	130	120	120	77	31	3.7	2.0	8.0
8	77	100	122	84	135	118	164	74	120	1.2	9.6	6.7
9	81	97	126	86	140	114	153	62	378	1.3	13	5.2
10	77	99	104	86	150	114	131	52	278	1.3	13	5.4
11	98	100	108	88	160	128	124	44	182	1.3	9.1	4.5
12	121	98	122	90	162	157	124	39	129	2.0	8.1	7.1
13	117	96	115	95	146	158	137	34	105	1.3	8.1	8.2
14	104	95	112	100	133	156	182	30	95	.98	7.0	8.8
15	99	88	106	110	131	150	168	25	87	.86	6.9	8.8
16	94	84	101	130	132	134	147	24	78	.92	8.5	7.7
17	93	83	105	140	134	129	138	26	72	.07	8.9	6.2
18	94	83	88	160	135	129	133	28	66	0	8.4	7.1
19	93	86	84	160	128	136	124	26	57	0	8.4	11
20	93	84	80	155	131	149	127	25	47	0	2.5	12
21	91	90	86	150	140	140	131	23	34	.03	2.7	14
22	90	110	94	135	130	131	125	21	28	10	3.4	16
23	94	128	92	140	126	132	117	19	25	5.0	3.3	17
24	97	129	90	140	102	139	111	20	23	4.3	3.0	17
25	89	134	90	145	106	140	113	102	23	5.3	2.7	16
26	87	128	88	145	121	140	109	42	19	3.0	2.3	14
27	88	139	87	145	127	131	105	46	16	2.3	2.2	12
28	92	120	86	150	126	128	105	46	16	2.3	3.1	11
29	94	114	86	150	------	125	103	46	16	1.8	5.6	10
30	93	118	86	150	------	109	97	71	14	1.4	6.4	11
31	92	------	86	155	------	109	------	65	------	1.1	4.9	------
TOTAL	2,869	3,081	3,102	3,679	3,858	4,041	3,798	1,521	2,169	104.86	160.45	278.9
MEAN	92.5	103	100	119	138	130	127	49.1	72.3	3.38	5.18	9.30
MAX	121	139	126	160	165	158	182	102	378	13	13	17
MIN	77	83	80	84	102	109	97	19	14	0	.95	4.4
AC-FT	5,690	6,110	6,150	7,300	7,650	8,020	7,530	3,020	4,300	208	318	553

CAL YR 1973 TOTAL 34,558.64 MEAN 94.7 MAX 336 MIN .06 AC-FT 68,550
WTR YR 1974 TOTAL 28,662.21 MEAN 78.5 MAX 378 MIN 0 AC-FT 56,850

PEAK DISCHARGE (BASE, 550 FT³/S).--June 9 (1530) 620 ft³/s (3.66 ft).

06827500 South Fork Republican River near Benkelman, Nebr.

LOCATION.--Lat 40°00'34", long 101°32'32", in NE1/4SW1/4 sec.31, T.1 N., R.37 W., Dundy County, 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.

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.

AVERAGE DISCHARGE.--44 years, 55.7 ft³/s (1.577 m³/s), 40,350 acre-ft/yr (49.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 260 ft³/s (7.36 m³/s) June 9, gage height, 4.07 ft (1.241 m); maximum gage height, 4.39 ft (1.338 m) Feb. 3, backwater from ice; no flow for many days.
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.
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.

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.

REVISIONS (WATER YEARS).--WSP 1310: 1904-6, 1931. WSP 1390: 1940, 1945, 1947. WSP 1919: 1951-52, 1954-56. WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	56	26	8.8	50	39	63	54	9.3	.01		
2	24	47	25	9.0	52	36	60	53	9.3	0		
3	22	44	26	9.0	56	34	59	45	7.8	0		
4	21	44	25	9.2	57	33	64	46	6.5	0		
5	19	43	18	9.4	51	33	63	47	6.2	0		
6	18	43	12	9.4	32	34	62	44	8.8	0		
7	17	40	20	9.5	28	35	60	34	7.8	0		
8	16	36	32	9.5	30	36	82	29	49	0		
9	14	33	29	9.8	34	36	73	26	172	0		
10	14	30	21	9.8	38	38	64	23	122	0		
11	24	28	29	10	42	46	65	26	68	0		
12	28	28	34	10	46	59	68	24	50	0		
13	22	28	28	12	50	56	71	22	38	0		
14	18	27	26	15	46	51	83	19	33	0		
15	18	27	26	20	46	80	76	20	26	0		
16	18	25	33	26	44	108	65	21	21	0		
17	19	25	30	34	43	114	66	19	17	0		
18	19	24	30	38	46	118	68	16	15	0		
19	27	20	20	40	41	110	65	15	11	0		
20	43	22	12	42	42	96	64	12	8.7	0		
21	53	23	14	42	41	80	63	11	6.7	0		
22	60	23	16	40	41	74	65	20	4.9	.06		
23	63	25	16	38	43	64	62	29	3.6	0		
24	69	27	11	38	20	80	60	14	2.9	0		
25	69	31	9.2	40	26	68	60	33	2.1	0		
26	70	33	8.6	42	35	68	63	16	1.2	0		
27	74	29	8.0	44	43	66	60	14	.38	0		
28	62	25	8.0	44	37	67	57	12	.16	0		
29	60	25	8.4	46	------	60	56	15	.10	0		
30	58	26	8.6	48	------	58	54	15	.04	0		
31	57	------	8.8	50	------	59	------	10	------	0		------
TOTAL	1,123	937	618.6	812.4	1,160	1,936	1,941	784	708.48	.07	0	0
MEAN	36.2	31.2	20.0	26.2	41.4	62.5	64.7	25.3	23.6	.002	0	0
MAX	74	56	34	50	57	118	83	54	172	.06	0	0
MIN	14	20	8.0	8.8	20	33	54	10	.04	0	0	0
AC-FT	2,230	1,860	1,230	1,610	2,300	3,840	3,850	1,560	1,410	.1	0	0

CAL YR 1973 TOTAL 17,415.92 MEAN 47.7 MAX 1,520 MIN 0 AC-FT 34,540
WTR YR 1974 TOTAL 10,020.55 MEAN 27.5 MAX 172 MIN 0 AC-FT 19,880

06828500 Republican River at Stratton, Nebr.

LOCATION.--Lat 40°08'28", long 101°13'42", in SW1/4NW1/4 sec.13, T.2 N., R.35 W., Hitchcock County, 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.

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.

AVERAGE DISCHARGE.--24 years, 142 ft³/s (4.021 m³/s), 102,900 acre-ft/yr (0.127 km³/yr); median of yearly mean discharges, 120 ft³/s (3.398 m³/s), 86,900 acre-ft/yr (0.107 km³/yr).

EXTREMES.--Current year: Maximum discharge, 1,300 ft³/s (36.8 m³/s) June 9, gage height, 7.78 ft (2.371 m); no flow July 6-22, July 24 to Sept. 30.
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.
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.

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. (See sta 06826000.)

REVISIONS.(WATER YEARS).--WSP 2119: Drainage area. WRD Nebr. 1973: 1968-71(M),1972.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	125	170	105	225	171	202	146	85	6.3		
2	148	122	174	100	225	168	218	144	71	3.1		
3	145	122	165	100	230	167	226	127	63	1.0		
4	132	136	164	98	230	161	235	135	60	.34		
5	116	142	164	98	230	163	230	135	80	.02		
6	113	139	156	98	200	166	225	132	82	0		
7	103	136	146	98	170	168	223	130	60	0		
8	101	128	176	98	180	166	254	124	214	0		
9	97	142	192	100	200	159	296	112	1,080	0		
10	105	143	164	100	210	167	264	243	500	0		
11	137	139	136	100	230	194	244	147	354	0		
12	161	141	153	105	261	214	243	87	243	0		
13	166	136	160	110	242	239	256	70	186	0		
14	150	136	156	130	217	233	297	55	152	0		
15	132	139	159	160	201	230	308	49	136	0		
16	125	139	159	160	192	242	275	44	121	0		
17	122	139	156	170	190	250	238	43	103	0		
18	113	142	150	200	187	262	213	53	92	0		
19	106	144	125	210	181	272	208	54	80	0		
20	116	158	110	230	173	269	213	47	68	0		
21	132	144	115	230	188	258	212	38	57	0		
22	136	140	125	210	193	224	208	33	43	0		
23	142	150	125	200	188	221	192	30	37	.63		
24	125	180	120	210	176	228	181	64	33	0		
25	136	200	120	210	149	240	179	671	27	0		
26	142	202	115	215	176	232	179	168	22	0		
27	146	189	115	215	197	221	169	90	17	0		
28	150	180	115	215	189	220	175	79	13	0		
29	142	168	110	220	------	206	168	69	10	0		
30	125	162	110	220	------	185	157	67	7.9	0		
31	132	------	105	220	------	188	------	90	------	0		------
TOTAL	4,065	4,463	4,410	4,935	5,630	6,484	6,688	3,476	4,096.9	11.39	0	0
MEAN	131	149	142	159	201	209	223	112	137	.37	0	0
MAX	169	202	192	230	261	272	308	671	1,080	6.3	0	0
MIN	97	122	105	98	149	159	157	30	7.9	0	0	0
AC-FT	8,060	8,850	8,750	9,790	11,170	12,860	13,270	6,890	8,130	23	0	0

CAL YR 1973 TOTAL 55,117.00 MEAN 151 MAX 1,280 MIN 0 AC-FT 109,300
WTR YR 1974 TOTAL 44,259.29 MEAN 121 MAX 1,080 MIN 0 AC-FT 87,790

06829000 Swanson Lake near Trenton, Nebr.

LOCATION.--Lat 40 10'10", long 101 03'35", in SE1/4NE1/4 sec.5, T.2 N., R.33 W., Hitchcock County, 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 mi (22,300 km), approximately, of which about 3,940 mi (10,200 km) contributes directly to surface runoff.

PERIOD OF RECORD.--May 1953 to current year.

GAGE.--Water-stage recorder. Gage is referred to mean sea level. Prior to Nov. 13, 1953, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 129,200 acre-ft (0.159 km) June 20,21, elevation, 2,753.77 ft (839.349 m); minimum contents, 62,720 acre-ft (77.3 hm) Sept. 30, elevation, 2,738.65 ft (834.741 m).
Period of record: Maximum contents, 148,900 acre-ft (0.184 km) Aug. 2, 3, 1962, elevation, 2,757.42 ft (840.462 m); minimum since operation of reservoir began, 19,950 acre-ft (24.6 hm) Oct. 24, 1954, elevation 2,722.61 ft (829.852 m).

REMARKS.--Reservoir is formed by earthfill dam; storage began May 4, 1953. Capacity, 116,100 acre-ft (0.143 km) between elevations 2,710.0 ft (826.01 m), sill of outlet gates, and 2,752.0 ft (838.81 m), top of storage pool. Top of flood-control pool is at elevation 2,773.0 ft (845.21 m), capacity, 254,000 acre-f (0.313 km). Top of superstorage flood-control pool at elevation 2,785.0 ft (848.87 m), capacity, 361,600 acre-ft (0.446 km). Dead storage, 4,100 acre-ft (5.06 hm). Figures given herein represent total contents. Water used for irrigation in Frenchman-Cambridge irrigation project.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

REVISIONS.--WSP 2119: Drainage area.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

2,735	50,280	2,750	110,500
2,740	67,730	2,755	135,600
2,745	87,930		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85,840	92,380	99,990	106,400	115,700	121,600	120,900	120,600	122,500	123,500	91,770	67,090
2	86,230	92,650	100,300	106,700	116,300	121,500	120,800	120,200	122,300	122,400	90,510	66,530
3	86,310	92,690	100,500	106,800	116,800	121,500	120,800	120,200	122,200	121,500	89,310	66,040
4	86,520	93,090	100,800	107,100	117,300	121,400	120,900	120,200	122,100	120,600	87,930	65,780
5	86,650	93,260	100,900	107,200	118,000	121,200	120,900	120,300	122,100	119,700	86,910	65,520
6	86,780	93,530	101,100	107,400	118,200	121,100	120,900	120,400	122,200	118,600	85,930	65,400
7	86,950	93,700	101,400	107,500	118,400	121,000	120,900	120,500	122,100	117,200	85,170	65,250
8	87,080	94,010	101,500	107,600	118,600	120,900	120,900	120,500	123,200	116,600	84,960	65,140
9	87,290	94,230	101,800	107,800	118,800	120,800	121,000	120,700	125,700	115,800	84,580	65,110
10	87,420	94,490	101,900	108,000	119,200	120,800	121,100	122,000	126,900	114,900	84,410	64,990
11	88,020	94,670	102,100	108,100	119,700	120,900	121,200	122,300	127,700	114,100	84,120	64,770
12	88,230	95,070	102,500	108,400	120,100	120,900	121,200	122,400	128,200	113,200	83,950	64,660
13	88,400	95,340	102,600	108,500	120,300	120,800	121,100	122,400	128,400	112,200	83,660	64,510
14	88,700	95,650	102,900	108,700	120,500	120,800	121,100	122,400	128,600	111,200	83,370	64,360
15	88,790	95,780	103,000	108,900	121,100	120,900	121,200	122,200	128,800	110,300	83,080	64,210
16	88,920	95,960	103,300	109,000	121,200	120,900	121,300	122,100	128,800	109,200	82,620	64,180
17	89,180	96,180	103,500	109,300	121,600	120,900	121,300	122,000	129,000	108,100	81,990	64,030
18	89,350	96,310	103,900	109,600	121,700	121,000	121,300	121,900	129,000	106,900	81,290	63,920
19	89,520	96,710	104,100	109,900	121,800	121,000	121,300	121,900	129,100	105,800	80,470	63,810
20	89,650	97,160	104,200	110,300	121,900	121,100	121,500	121,900	129,200	104,600	79,280	63,660
21	90,040	97,250	104,200	110,800	122,000	121,100	121,500	121,900	129,000	103,500	77,980	63,590
22	90,120	97,340	104,300	111,300	122,000	121,200	121,400	121,700	128,700	102,600	76,730	63,480
23	90,470	97,610	104,600	111,700	121,900	121,100	121,300	121,500	128,400	101,600	75,560	63,330
24	90,900	97,830	104,900	112,000	121,800	121,100	121,200	121,300	128,100	100,700	74,410	63,230
25	90,900	98,150	105,100	112,400	121,700	121,100	121,200	122,500	127,600	99,680	73,270	63,230
26	91,030	98,550	105,300	112,800	121,700	121,100	121,200	122,800	127,100	98,600	72,170	63,120
27	91,250	98,910	105,300	113,300	121,600	121,100	121,200	122,900	126,500	97,570	71,150	62,970
28	91,470	99,140	105,500	113,900	121,600	121,100	121,000	122,900	125,800	96,540	69,990	62,860
29	91,730	99,450	105,700	114,200	------	121,100	120,700	122,900	125,000	95,520	69,110	62,830
30	91,990	99,680	105,900	114,700	------	121,100	120,700	122,800	124,200	94,230	68,380	62,720
31	92,250	------	106,200	115,200	------	121,100	------	122,600	------	93,040	67,730	------
MAX	92,250	99,680	106,200	115,200	122,000	121,600	121,500	122,900	129,200	123,500	91,770	67,090
MIN	85,840	92,380	99,990	106,400	115,700	120,800	120,700	120,200	122,100	93,040	67,730	62,720
(†)	+6,620	+7,430	+6,520	+9,000	+6,400	-500	-400	+1,900	+1,600	-31,160	-25,310	-5,010
(‡)	2,746.00	2,747.67	2,749.10	2,750.99	2,752.29	2,752.18	2,752.10	2,752.49	2,752.80	2,746.18	2,740.00	2,738.65

CAL YR 1973 MAX 126,600 MIN 81,290 † +17,410
WTR YR 1974 MAX 129,200 MIN 62,720 † -22,910

†Change in contents, in acre-feet.
‡Elevation, in feet, at end of month.

06829500 Republican River at Trenton, Nebr.

LOCATION.--Lat 40°10'00", long 101°02'40", in SE1/4 sec.4, T.2 N., R.33 W., Hitchcock County, 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.

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.

AVERAGE DISCHARGE.--28 years, 102 ft³/s (2.889 m³/s), 73,900 acre-ft/yr (91.1 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 297 ft³/s (8.41 m³/s) Aug. 22-25, gage height, 4.62 ft (1.408 m); minimum daily, 0.76 ft³/s (0.022 m³/s) Sept. 26-30.
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.
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.

REMARKS.--Records poor prior to Feb. 6 and good thereafter. Natural flow affected by irrigation development above station, since July 6, 1950, by storage in Bonny Reservoir, since 1953 by storage in Swanson Lake (see sta 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). Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.2	1.3	1.3	1.5	204	205	207	24	60	278	124
2	1.4	1.2	1.3	1.3	1.5	201	203	129	24	60	279	124
3	1.5	1.2	1.3	1.3	1.6	200	202	41	24	58	276	68
4	1.3	1.2	1.4	1.3	1.5	198	202	41	24	58	274	36
5	1.3	1.2	1.4	1.3	1.5	198	202	43	24	58	266	35
6	1.3	1.2	1.4	1.3	18	198	200	45	23	57	261	35
7	1.2	1.2	1.4	1.3	30	198	201	45	23	79	257	18
8	1.2	1.2	1.4	1.3	30	196	200	48	25	102	212	1.0
9	1.2	1.2	1.4	1.3	30	198	203	51	24	101	16	.80
10	1.2	1.2	1.4	1.3	29	198	202	51	27	99	1.0	.80
11	1.4	1.2	1.4	1.3	29	196	200	49	22	100	1.0	.80
12	1.4	1.3	1.4	1.3	40	195	199	51	22	97	1.0	.80
13	1.4	1.3	1.4	1.4	49	195	202	48	22	132	1.0	.80
14	1.4	1.3	1.3	1.5	50	195	202	46	23	139	1.0	.80
15	1.3	1.3	1.3	1.5	50	197	201	45	23	140	1.0	.80
16	1.3	1.2	1.3	1.6	50	198	203	44	24	176	20	.80
17	1.3	1.2	1.3	1.6	50	197	203	43	24	193	118	.80
18	1.3	1.2	1.3	1.6	50	197	205	42	23	192	118	.80
19	1.2	1.2	1.3	1.6	130	200	206	42	23	191	167	.80
20	1.3	1.2	1.3	1.7	201	199	204	31	22	189	247	.80
21	1.2	1.2	1.3	1.7	203	203	202	24	22	187	295	.78
22	1.2	1.2	1.3	1.7	205	201	203	24	22	187	296	.78
23	1.2	1.2	1.3	1.7	204	203	206	24	21	187	296	.78
24	1.2	1.2	1.3	1.7	205	203	205	25	21	186	297	.78
25	1.2	1.2	1.3	1.6	206	205	203	24	22	182	296	.78
26	1.2	1.2	1.3	1.7	205	205	203	24	22	180	292	.76
27	1.2	1.3	1.3	1.6	205	205	205	24	46	175	289	.76
28	1.2	1.3	1.3	1.6	205	205	205	24	62	173	286	.76
29	1.2	1.3	1.3	1.6	------	205	207	24	61	236	242	.76
30	1.2	1.3	1.3	1.6	------	205	204	24	60	280	147	.76
31	1.2	------	1.3	1.6	------	206	------	24	------	280	125	------
TOTAL	39.5	36.8	41.3	46.2	2,481.6	6,204	6,088	1,407	829	4,534	5,656.0	458.30
MEAN	1.27	1.23	1.33	1.49	88.6	200	203	45.4	27.6	146	182	15.3
MAX	1.5	1.3	1.4	1.7	206	206	207	207	62	280	297	124
MIN	1.2	1.2	1.3	1.3	1.5	195	199	24	21	57	1.0	.75
AC-FT	78	73	82	92	4,920	12,310	12,080	2,790	1,640	8,990	11,220	909

CAL YR 1973 TOTAL 20,546.10 MEAN 56.3 MAX 314 MIN 1.1 AC-FT 40,750
WTR YR 1974 TOTAL 27,821.70 MEAN 76.2 MAX 297 MIN .76 AC-FT 55,180

NOTE.--No gage-height record Oct. 1 to Feb. 5, Aug. 9-16, Sept. 7-30 (water below intakes).

06831500 Frenchman Creek near Imperial, Nebr.

LOCATION.--Lat 40°25'45", long 101°37'25", in SW1/4NW1/4 sec.3, T.5 N., R.38 W., Chase County, 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.

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.

AVERAGE DISCHARGE.--34 years, 69.7 ft³/s (1.974 m³/s), 50,500 acre-ft/yr (62.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 132 ft³/s (3.74 m³/s) June 10, gage height, 1.82 ft (0.555 m); minimum daily, 30 ft³/s (0.85 m³/s) Oct. 8.
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.
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).

REMARKS.--Records good except those for winter period, which are fair. Natural flow affected by irrigation development and regulation at low flow from powerplants above station.

REVISIONS (WATER YEARS).--WSP 976: 1942(M). WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	43	64	60	60	48	53	51	47	42	37	37
2	35	43	64	58	61	49	53	51	48	42	37	37
3	48	43	64	55	61	49	55	50	49	41	37	36
4	43	45	65	55	61	50	53	50	49	39	37	36
5	42	49	64	55	61	50	56	50	52	38	39	36
6	59	55	62	56	55	61	56	50	52	38	38	36
7	41	51	64	57	64	66	57	51	51	38	39	36
8	30	49	55	57	61	57	57	51	61	40	42	36
9	40	49	60	58	60	53	56	52	115	41	41	36
10	41	49	62	60	68	51	56	54	115	43	40	36
11	57	49	76	60	65	51	58	53	88	44	42	36
12	55	50	79	61	65	50	58	51	67	43	41	37
13	36	52	67	62	61	50	61	51	64	42	41	37
14	41	52	54	64	57	49	63	51	63	41	40	37
15	43	51	63	66	55	49	62	49	60	41	40	37
16	42	50	59	65	55	47	59	51	59	39	40	37
17	43	52	67	67	57	48	62	50	56	40	40	37
18	42	52	74	66	61	50	60	51	57	40	40	36
19	40	57	55	67	63	49	58	51	55	39	40	36
20	40	57	60	67	60	50	60	50	54	38	39	36
21	41	48	70	68	51	49	65	51	53	37	39	37
22	53	64	67	70	49	48	63	50	52	40	39	37
23	32	63	65	75	50	47	58	48	50	40	39	36
24	44	62	68	71	50	48	57	47	48	40	39	36
25	39	61	67	42	50	49	57	48	48	40	39	36
26	42	64	65	67	50	49	55	49	46	40	39	36
27	42	64	65	72	48	49	54	49	45	39	40	36
28	42	64	64	65	48	49	53	51	45	38	40	36
29	42	64	64	62	------	49	53	52	44	38	40	36
30	43	65	64	59	------	49	52	50	43	37	38	36
31	43	------	63	58	------	53	------	46	------	37	37	------
TOTAL	1,331	1,617	2,000	1,925	1,607	1,566	1,720	1,559	1,736	1,235	1,219	1,090
MEAN	42.9	53.9	64.5	62.1	57.4	50.5	57.3	50.3	57.9	39.8	39.3	36.3
MAX	59	65	79	75	68	66	65	54	115	44	42	37
MIN	30	43	54	42	48	47	52	46	43	37	37	36
AC-FT	2,640	3,210	3,970	3,820	3,190	3,110	3,410	3,090	3,440	2,450	2,420	2,160

CAL YR 1973 TOTAL 19,214 MEAN 52.6 MAX 79 MIN 21 AC-FT 38,110
WTR YR 1974 TOTAL 18,605 MEAN 51.0 MAX 115 MIN 30 AC-FT 36,900

PEAK DISCHARGE (BASE, 150 FT³/S).--No peak above base.

06832000 Enders Reservoir near Enders, Nebr.

LOCATION.--Lat 40°25'05", long 101°30'55", in NE1/4 sec.9, T.5 N., R.37 W., Chase County, 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.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Sept. 3, 1960, mercury-column pressure gage at same datum.

EXTREMES.--Current year: Maximum contents, 39,620 acre-ft (48.9 hm³) June 20, elevation, 3,109.34 ft (947.727 m); minimum, 12,130 acre-ft (15.0 hm³) Aug. 29, elevation, 3,085.48 ft (940.454 m).
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).

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 (938.78 m), sill of outlet gates, and 3,112.3 ft (948.63 m), top of storage pool. Top of flood-control pool at elevation 3,127.0 ft (953.11 m), capacity, 74,520 acre-ft (91.9 hm³). Top of superstorage flood-control pool at elevation 3,129.5 ft (953.87 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.

REVISIONS.--WSP 2119: Drainage area.

Capacity table (elevation, in feet, and usable 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, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12,720	16,410	20,190	24,200	28,060	30,860	33,240	35,680	37,430	36,930	19,940	12,570
2	12,860	16,510	20,350	24,300	28,180	30,950	33,300	35,730	37,490	36,320	19,580	12,690
3	12,980	16,610	20,440	24,440	28,290	31,020	33,380	35,760	37,540	35,610	19,210	12,800
4	13,100	16,720	20,570	24,530	28,410	31,080	33,450	35,820	37,680	34,960	18,800	12,900
5	13,210	16,860	20,680	24,660	28,480	31,150	33,520	35,880	37,790	34,260	18,420	13,030
6	13,370	16,980	20,810	24,780	28,580	31,260	33,670	35,970	37,790	33,680	18,110	13,130
7	13,490	17,120	20,980	24,920	28,670	31,360	33,690	36,010	37,820	33,010	17,880	13,250
8	13,590	17,220	21,080	25,020	28,800	31,480	33,790	36,110	38,370	32,320	17,790	13,340
9	13,700	17,350	21,170	25,130	28,910	31,520	33,890	36,190	38,560	31,650	17,720	13,440
10	13,800	17,500	21,280	25,290	29,040	31,670	33,950	36,260	38,770	30,990	17,620	13,560
11	14,030	17,630	21,450	25,420	29,160	31,740	34,110	36,310	38,880	30,410	17,550	13,620
12	14,180	17,750	21,580	25,550	29,280	31,780	34,150	36,350	38,990	29,900	17,410	13,710
13	14,290	17,880	21,710	25,700	29,400	31,870	34,230	36,410	39,060	29,420	17,230	13,810
14	14,410	18,000	21,800	25,810	29,480	31,960	34,320	36,420	39,140	28,790	17,030	13,930
15	14,520	18,110	21,910	25,970	29,560	31,980	34,390	36,480	39,190	28,250	16,810	14,040
16	14,650	18,230	22,030	26,080	29,670	32,100	34,490	36,510	39,190	27,640	16,550	14,140
17	14,750	18,350	22,180	26,220	29,780	32,210	34,570	36,560	39,290	27,090	16,300	14,240
18	14,910	18,440	22,330	26,350	29,900	32,220	34,650	36,650	39,400	26,500	15,950	14,360
19	15,010	18,590	22,400	26,470	30,000	32,320	34,740	36,710	39,480	25,940	15,500	14,430
20	15,130	18,700	22,560	26,600	30,080	32,370	34,890	36,840	39,570	25,400	15,000	14,500
21	15,240	18,800	22,740	26,720	30,150	32,430	34,930	36,890	39,460	24,840	14,490	14,620
22	15,360	18,950	22,850	26,860	30,270	32,480	35,020	36,920	39,300	24,350	14,020	14,720
23	15,480	19,100	22,960	27,010	30,320	32,520	35,090	36,980	39,220	23,830	13,600	14,810
24	15,570	19,230	23,180	27,160	30,400	32,620	35,230	37,020	39,130	23,340	13,190	14,920
25	15,650	19,360	23,330	27,230	30,470	32,720	35,300	37,080	39,020	22,900	12,850	15,030
26	15,770	19,520	23,450	27,360	30,570	32,800	35,400	37,160	38,830	22,500	12,610	15,140
27	15,860	19,650	23,600	27,490	30,670	32,900	35,430	37,240	38,680	22,050	12,370	15,180
28	15,970	19,800	23,710	27,610	30,740	33,000	35,490	37,300	38,430	21,610	12,210	15,270
29	16,110	19,920	23,830	27,740	------	33,030	35,540	37,360	38,020	21,190	12,250	15,360
30	16,200	20,060	23,960	27,850	------	33,100	35,630	37,400	37,460	20,730	12,380	15,450
31	16,320	------	24,060	27,930	------	33,210	------	37,400	------	20,350	12,480	------
MAX	16,320	20,060	24,060	27,930	30,740	33,210	35,630	37,400	39,570	36,930	19,940	15,450
MIN	12,720	16,410	20,190	24,200	28,060	30,860	33,240	35,680	37,430	20,350	12,210	12,570
(†)	+3,730	+3,740	+4,000	+3,870	+2,810	+2,470	+2,420	+1,770	+60	-17,110	-7,870	+2,970
(‡)	3,090.53	3,094.35	3,097.95	3,101.10	3,103.25	3,105.05	3,106.72	3,107.91	3,107.95	3,094.62	3,085.95	3,089.57

CAL YR 1973 MAX 40,000 MIN 9,060 † -300
WTR YR 1974 MAX 39,570 MIN 12,210 †+2,860

†Change in contents, in acre-feet, at end of month.
‡Elevation, in feet, at end of month.

06832500 Frenchman Creek near Enders, Nebr.

LOCATION.--Lat 40°25'05", long 101°30'35", in NW1/4NW1/4 sec.10, T.5 N., R.37 W., Chase County, 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.

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.

AVERAGE DISCHARGE.--28 years, 68.8 ft³/s (1.948 m³/s), 49,850 acre-ft/yr (61.5 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 420 ft³/s (11.9 m³/s) July 9, gage height, 8.90 ft (2.713 m); no flow for many days.
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 1972-74.

REMARKS.--Records good. Flow regulated by Enders Reservoir. (See preceding page.)

REVISIONS (WATER YEARS).--WSP 2119: 1956, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	2.1	2.7	2.2	2.5	2.9	320	246	2.5
2				0	2.0	2.6	2.0	2.5	2.9	341	226	2.0
3				0	2.0	2.5	2.1	2.6	2.9	346	228	1.9
4				0	2.0	2.5	1.8	2.7	3.2	364	249	1.9
5				0	2.0	2.5	1.8	2.7	3.5	360	246	1.7
6				0	2.6	2.5	1.7	2.7	3.5	351	204	1.6
7				0	2.7	2.5	1.8	2.7	3.1	368	177	1.6
8				0	2.6	2.5	1.7	2.7	4.7	392	157	1.4
9				0	2.0	2.5	1.7	2.8	4.2	393	124	1.4
10				0	2.0	2.5	1.6	2.6	3.5	377	115	1.3
11				0	2.0	2.6	1.9	2.4	2.9	348	107	1.3
12				0	2.0	2.7	2.0	2.3	2.9	327	121	1.3
13				0	2.0	2.7	1.9	2.4	3.0	310	149	.25
14				0	2.0	2.5	1.8	2.2	3.2	354	161	0
15				0	2.1	2.5	1.8	2.3	2.9	344	160	0
16				0	2.2	2.5	2.2	2.4	2.9	342	175	0
17				0	2.2	2.5	2.6	2.4	2.9	339	174	0
18				0	2.2	2.5	2.6	2.2	2.9	334	200	0
19				0	2.2	2.5	2.4	2.2	2.9	328	236	0
20				0	3.2	2.6	2.7	2.4	2.9	327	287	0
21				0	7.6	2.7	2.9	2.4	24	327	297	0
22				.02	15	2.7	2.9	2.3	63	329	295	0
23				.79	3.0	2.7	2.8	2.2	63	311	269	0
24				1.3	2.9	2.7	2.7	2.6	72	287	266	0
25				1.6	2.9	2.7	2.7	2.7	85	284	225	0
26				1.8	2.8	2.5	2.7	7.5	97	262	192	0
27				1.8	2.7	2.6	2.7	5.5	113	267	175	0
28				2.0	2.7	2.4	2.7	2.6	156	268	157	0
29				2.0	------	2.5	2.7	3.0	224	277	44	0
30				2.0	------	2.4	2.5	2.7	275	263	3.9	0
31		------		2.0	------	2.4	------	2.5	------	245	3.0	------
TOTAL	0	0	0	15.31	83.7	79.2	67.6	85.7	1,235.8	10,081	5,668.9	20.15
MEAN	0	0	0	.49	2.99	2.55	2.25	2.76	41.2	325	183	.67
MAX	0	0	0	2.0	15	2.7	2.9	7.5	275	393	297	2.5
MIN	0	0	0	0	2.0	2.4	1.6	2.2	2.9	245	3.0	0
AC-FT	0	0	0	30	166	157	134	170	2,450	20,000	11,240	40

CAL YR 1973 TOTAL 21,105.09 MEAN 57.8 MAX 505 MIN 0 AC-FT 41,860
WTR YR 1974 TOTAL 17,337.36 MEAN 47.5 MAX 393 MIN 0 AC-FT 34,390

06834000 Frenchman Creek at Palisade, Nebr.

LOCATION.--Lat 40°20'50", long 101°07'40", in SE1/4SW1/4 sec.36, T.5 N., R.34 W., Hayes County, 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.

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 railrcad bridge 0.4 mi (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--26 years, 91.6 ft³/s (2.594 m³/s), 66,360 acre-ft/yr (81.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 602 ft³/s (17.0 m³/s) Aug. 8, gage height, 5.57 ft (1.698 m); minimum daily, 23 ft³/s (0.65 m³/s) Sept. 26,27,30.
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.

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. (See sta 06832000.) Records of water temperatures and fluvial sediments for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	35	33	27	38	38	34	32	26	246	235	72
2	56	35	32	27	39	38	33	31	26	287	233	63
3	52	35	33	28	38	38	34	32	25	303	220	57
4	49	36	30	28	37	37	35	32	24	310	219	53
5	47	36	30	28	37	37	35	32	34	324	254	48
6	45	36	27	28	35	37	35	31	41	320	251	46
7	45	35	27	28	35	37	34	31	35	310	222	44
8	44	35	28	28	36	37	35	31	56	322	398	41
9	43	34	28	28	40	37	35	30	337	339	207	38
10	41	34	28	28	41	38	34	31	118	339	163	36
11	43	33	32	28	39	40	34	33	67	328	146	34
12	47	32	31	28	38	40	34	31	55	306	132	34
13	42	32	30	28	37	39	34	31	51	289	136	33
14	41	32	30	28	37	38	34	30	48	280	162	32
15	40	31	31	29	37	38	34	30	46	315	173	32
16	39	32	31	30	36	37	33	30	42	359	180	31
17	38	32	32	32	36	37	33	30	40	310	197	30
18	38	32	32	35	36	37	34	31	38	305	196	29
19	37	32	31	40	36	37	34	31	36	299	238	28
20	37	37	31	45	36	36	34	29	35	295	274	27
21	36	31	30	46	37	36	35	30	31	296	297	27
22	35	30	30	44	39	36	34	33	30	310	306	27
23	35	30	30	44	42	35	33	29	50	306	305	26
24	34	30	30	46	39	36	32	28	64	296	292	26
25	34	33	30	45	40	35	32	29	68	279	294	24
26	35	32	29	44	40	35	34	30	79	272	265	23
27	36	32	29	42	39	35	33	29	82	256	232	23
28	35	32	29	40	39	35	33	30	97	255	213	24
29	35	32	29	39	------	35	32	30	122	256	191	25
30	35	32	29	39	------	34	32	30	191	259	140	23
31	35	------	28	39	------	34	------	27	------	250	84	------
TOTAL	1,272	990	930	1,069	1,059	1,139	1,012	944	1,994	9,221	6,855	1,056
MEAN	41.0	33.0	30.0	34.5	37.8	36.7	33.7	30.5	66.5	297	221	35.2
MAX	63	37	33	46	42	40	35	33	337	359	398	72
MIN	34	30	27	27	35	34	32	27	24	246	84	23
AC-FT	2,520	1,960	1,840	2,120	2,100	2,260	2,010	1,870	3,960	18,290	13,600	2,090

CAL YR 1973 TOTAL 30,982 MEAN 84.9 MAX 573 MIN 21 AC-FT 61,450
WTR YR 1974 TOTAL 27,541 MEAN 75.5 MAX 398 MIN 23 AC-FT 54,630

06835000 Stinking Water Creek near Palisade, Nebr.

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, 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.

GAGE.--Water-stage recorder. Datum of gage is 2,740.99 ft (835.454 m) above mean sea level.

AVERAGE DISCHARGE.--25 years, 43.5 ft³/s (1.232 m³/s), 31,520 acre-ft/yr (38.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 225 ft³/s (6.37 m³/s) June 10, gage height, 5.30 ft (1.615 m); minimum daily, 15 ft³/s (0.42 m³/s) July 21.
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.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation development above station. Records of water temperatures and fluvial sediments for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1730: 1952(M). WSP 1919: 1951(P), 1955. WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	42	45	44	58	55	43	41	36	32	17	21
2	75	47	45	45	56	52	43	42	35	29	17	21
3	56	44	45	47	58	51	46	42	34	28	16	20
4	49	44	45	44	58	49	46	40	34	26	17	21
5	46	45	44	41	56	47	45	40	41	25	17	20
6	41	46	41	42	52	46	55	40	46	24	17	21
7	42	48	38	41	47	46	57	41	43	23	17	20
8	41	46	38	42	46	46	55	41	72	22	31	20
9	40	45	39	43	50	45	55	42	171	21	40	20
10	40	44	40	41	50	46	53	42	191	21	47	19
11	43	44	41	41	54	48	49	44	185	22	36	19
12	51	44	44	41	55	53	49	45	142	22	27	20
13	63	44	44	42	54	59	64	46	112	21	25	22
14	57	43	45	43	53	58	58	46	65	20	24	22
15	53	42	45	43	52	55	53	40	51	19	23	22
16	47	42	45	44	51	51	49	39	46	21	24	22
17	44	41	44	45	51	49	47	35	43	20	27	22
18	44	41	40	47	51	48	45	35	41	18	28	22
19	43	42	33	50	51	47	45	36	40	17	26	21
20	43	44	36	53	50	46	46	36	39	16	25	22
21	42	41	39	56	51	46	53	35	36	15	24	22
22	41	40	40	60	50	47	51	43	33	17	24	23
23	41	40	40	59	52	51	49	36	35	17	24	23
24	40	42	39	59	56	49	47	34	35	18	23	22
25	40	44	39	57	51	46	45	35	34	18	24	22
26	40	47	39	55	52	47	44	47	36	19	23	22
27	40	46	39	58	56	47	43	41	37	18	22	21
28	41	46	39	60	57	48	42	39	38	18	22	21
29	41	46	40	59	------	47	42	40	29	17	21	22
30	41	45	41	58	------	43	41	42	29	18	21	22
31	42	------	42	59	------	43	------	40	------	18	21	------
TOTAL	1,497	1,315	1,274	1,519	1,478	1,511	1,460	1,245	1,809	640	750	637
MEAN	48.3	43.8	41.1	49.0	52.8	48.7	48.7	40.2	60.3	20.6	24.2	21.2
MAX	130	48	45	60	58	59	64	47	191	32	47	23
MIN	40	40	33	41	46	43	41	34	29	15	16	19
AC-FT	2,970	2,610	2,530	3,010	2,930	3,000	2,900	2,470	3,590	1,270	1,490	1,260

CAL YR 1973 TOTAL 15,540 MEAN 42.6 MAX 177 MIN 17 AC-FT 30,820
WTR YR 1974 TOTAL 15,135 MEAN 41.5 MAX 191 MIN 15 AC-FT 30,020

PEAK DISCHARGE (BASE, 150 FT³/S).--Oct. 1. (0230) 163 ft³/s (4.65 ft); June 10 (2300) 225 ft³/s (5.30 ft).

06835500 Frenchman Creek at Culbertson, Nebr.

LOCATION.--Lat 40°14'05", long 100°52'40", in SW1/4SE1/4 sec.12, T.3 N., R.32 W., Hitchcock County, 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.

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.

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.

AVERAGE DISCHARGE.--44 years, 112 ft³/s (3.172 m³/s), 81,140 acre-ft/yr (0.100 km³/yr).

EXTREMES.--Current year: Maximum discharge, 733 ft³/s (20.8 m³/s) June 9, gage height, 5.79 ft (1.765 m); minimum daily, 9.0 ft³/s (0.25 m³/s) July 29.
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, 7.0 ft³/s (0.20 m³/s) Aug. 13, 14, 26, 1936.

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. (See sta 06832000.) Principal diversion is by Culbertson Canal, 20,800 acres (84.2 km²). Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1390: 1931, 1933, 1934(M), 1938(M). WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	104	102	60	119	120	98	37	27	47	11	74
2	189	104	103	60	120	120	95	37	27	45	9.8	69
3	156	106	103	60	117	117	98	36	26	42	9.7	65
4	140	107	101	60	116	111	96	37	23	29	10	63
5	130	107	100	60	116	106	99	36	28	27	173	58
6	120	106	96	65	109	107	100	35	32	27	62	56
7	115	105	93	65	100	109	111	35	34	25	44	56
8	112	107	90	65	92	108	110	35	137	24	125	54
9	109	105	94	65	100	108	109	35	447	23	133	54
10	102	102	94	65	109	111	106	41	330	21	70	53
11	112	102	95	70	108	112	100	36	224	19	52	51
12	114	101	97	70	111	110	98	36	166	17	28	51
13	126	102	97	70	109	111	104	32	147	15	25	50
14	127	102	96	75	109	115	112	30	117	13	25	57
15	127	100	95	80	109	117	108	30	91	11	26	62
16	125	98	96	85	109	116	108	30	79	25	24	61
17	123	96	98	95	108	115	100	30	70	38	26	62
18	120	97	98	110	111	116	82	29	58	17	26	61
19	118	99	85	130	111	114	73	29	48	12	24	60
20	115	95	70	120	110	108	67	28	44	10	26	61
21	115	90	60	126	109	102	72	27	39	10	25	63
22	110	93	55	124	111	102	74	28	36	18	22	66
23	109	95	50	115	112	105	55	28	33	16	19	64
24	108	98	50	118	118	106	48	32	36	18	15	64
25	102	101	55	120	115	106	43	35	32	13	14	56
26	105	102	55	123	116	105	42	34	30	12	17	58
27	103	103	55	128	116	106	40	36	27	9.9	16	59
28	102	102	55	129	119	109	38	31	25	9.6	16	60
29	102	99	60	132	------	109	38	31	21	9.0	15	59
30	103	101	60	123	------	106	37	28	31	11	56	62
31	104	------	60	120	------	101	------	27	------	10	99	------
TOTAL	3,757	3,029	2,518	2,888	3,109	3,408	2,461	1,011	2,465	623.5	1,243.5	1,789
MEAN	121	101	81.2	93.2	111	110	82.0	32.6	82.2	20.1	40.1	59.6
MAX	214	107	103	132	120	120	112	41	447	47	173	74
MIN	102	90	50	60	92	101	37	27	21	9.0	9.7	50
AC-FT	7,450	6,010	4,990	5,730	6,170	6,760	4,880	2,010	4,890	1,240	2,470	3,550

CAL YR 1973 TOTAL 27,917.0 MEAN 76.5 MAX 285 MIN 9.0 AC-FT 55,370
WTR YR 1974 TOTAL 28,302.0 MEAN 77.5 MAX 447 MIN 9.0 AC-FT 56,140

06836000 Blackwood Creek near Culbertson, Nebr.

LOCATION.--Lat 40°14'10", long 100°48'39", in SE1/4SW1/4 sec.10, T.3 N., R.31 W., Hitchcock County, 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.

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.

AVERAGE DISCHARGE.--28 years, 6.62 ft³/s (0.187 m³/s), 4,800 acre-ft/yr (5.92 hm³/yr); median of yearly mean discharges, 5.9 ft³/s (0.167 m³/s), 4,300 acre-ft/yr (5.30 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,260 ft³/s (35.7 m³/s) June 8, gage height, 8.27 ft (2.521 m); minimum daily, 1.6 ft³/s (0.045 m³/s) July 7.
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.
Flood of May 31, 1935, reached a stage of 24.0 ft (7.32 m), at site 0.2 mile downstream, at present datum, from floodmarks, discharge, about 5,300 ft³/s (150 m³/s), from information by Nebraska Department of Roads.

REMARKS.--Records fair. Natural flow affected by irrigation development above station, return flow from irrigated areas, and waste from Culbertson Canal.

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	6.9	3.9	3.3	2.8	2.3	2.4	7.8	2.4	3.1	7.5	21
2	4.4	6.3	4.1	3.3	2.8	2.3	2.3	5.8	2.3	4.5	9.1	4.8
3	4.1	5.9	4.3	3.3	2.8	2.3	2.5	4.8	2.1	5.6	12	3.8
4	4.5	5.5	4.5	2.9	2.8	2.3	2.8	3.6	2.7	6.3	11	3.4
5	4.8	5.0	4.3	2.8	2.8	2.1	2.7	3.5	5.9	6.8	176	3.3
6	4.7	5.1	4.5	3.0	2.6	2.3	3.0	5.5	5.3	1.8	63	3.3
7	4.5	5.0	5.0	3.0	2.5	2.3	2.6	5.9	5.8	1.6	23	3.0
8	4.6	4.5	4.8	3.0	2.4	2.5	2.7	4.1	268	1.7	21	3.1
9	5.2	4.3	5.0	3.0	2.7	2.6	2.3	4.3	632	2.6	14	3.1
10	5.2	4.2	5.0	3.0	3.0	2.6	2.3	16	67	2.6	11	4.1
11	6.1	4.1	5.0	3.0	2.8	2.6	2.6	4.9	22	2.8	11	2.4
12	6.3	3.9	5.2	3.0	2.8	2.5	2.5	2.9	7.1	2.8	5.7	2.4
13	5.8	3.9	5.5	3.0	2.8	2.1	2.1	8.9	7.1	3.0	4.5	2.4
14	5.2	3.9	5.9	3.0	2.8	2.3	2.1	7.2	8.0	3.0	5.0	2.3
15	5.2	3.8	5.9	3.0	2.6	2.7	2.2	4.8	8.0	3.2	5.1	2.4
16	5.2	3.7	5.1	3.1	2.6	2.5	2.5	3.5	6.7	3.3	6.0	2.4
17	5.0	3.7	4.2	3.1	2.7	2.6	2.5	3.3	6.4	4.7	7.4	2.4
18	5.0	3.7	3.0	3.2	2.4	2.6	2.6	3.0	5.2	7.1	14	2.3
19	4.8	3.7	4.3	3.5	2.3	2.8	2.5	2.9	6.6	8.0	16	2.4
20	4.8	3.6	3.9	3.3	2.3	2.8	2.9	2.7	12	7.3	13	2.7
21	4.5	4.0	3.7	3.4	2.3	2.8	2.6	3.3	7.4	5.5	7.0	2.6
22	4.3	3.6	3.5	3.2	2.8	2.8	2.5	3.2	5.9	5.4	6.9	2.7
23	4.4	3.5	3.5	3.1	3.0	2.8	6.4	2.8	5.2	4.7	6.1	2.9
24	4.7	3.3	3.3	3.2	2.3	2.9	18	2.8	5.6	5.8	5.3	2.9
25	6.8	3.3	3.7	3.1	2.5	2.7	17	20	5.2	22	9.6	2.9
26	7.2	3.3	3.7	3.1	2.4	2.6	12	4.4	4.7	8.8	6.7	2.9
27	7.4	3.3	3.8	3.3	2.4	2.4	9.8	2.7	2.8	5.2	5.7	3.0
28	7.4	3.4	3.7	3.0	2.3	2.4	11	2.3	2.4	4.1	8.4	3.1
29	7.4	3.5	3.5	2.8	------	2.3	11	3.5	2.1	4.9	8.2	2.6
30	7.4	3.7	3.4	2.8	------	2.2	10	3.8	2.8	6.8	31	2.1
31	6.9	------	3.5	2.8	------	2.2	------	2.5	------	6.4	41	------
TOTAL	168.5	125.6	132.7	95.6	73.3	77.2	150.4	156.7	1,126.7	161.4	571.2	104.7
MEAN	5.44	4.19	4.28	3.08	2.62	2.49	5.01	5.05	37.6	5.21	18.4	3.49
MAX	7.4	6.9	5.9	3.5	3.0	2.9	18	20	632	22	176	21
MIN	4.1	3.3	3.0	2.8	2.3	2.1	2.1	2.3	2.1	1.6	4.5	2.1
AC-FT	334	249	263	190	145	153	298	311	2,230	320	1,130	208

CAL YR 1973 TOTAL 2,538.2 MEAN 6.95 MAX 233 MIN 1.3 AC-FT 5,030
WTR YR 1974 TOTAL 2,944.0 MEAN 8.07 MAX 632 MIN 1.6 AC-FT 5,840

PEAK DISCHARGE (BASE, 150 FT³/S).--June 8 (2400) 1,260 ft³/s (8.27 ft); Aug. 5 (1330) 578 ft³/s (6.19 ft).

06836500 Driftwood Creek near McCook, Nebr.

LOCATION.--Lat 40°08'50", long 100°39'55", in SW1/4SW1/4 sec.12, T.2 N., R.30 W., Red Willow County, 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.

GAGE.--Water-stage recorder. Datum of gage is 2,493.78 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.

AVERAGE DISCHARGE.--28 years, 10.9 ft³/s (0.309 m³/s), 7,900 acre-ft/yr (9.74 hm³/yr); median of yearly mean discharges, 8.2 ft³/s (0.232 m³/s), 5,900 acre-ft/yr (7.27 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,020 ft³/s (28.9 m³/s) June 8, gage height, 16.35 ft (4.983 m); minimum daily, 2.7 ft³/s (0.076 m³/s) June 21.
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.

REMARKS.--Records fair. Natural flow affected by waste from Meeker-Driftwood Canal and by irrigation development above station.

REVISIONS (WATER YEARS).--WSP 1210: 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	8.1	7.8	6.7	8.6	6.7	6.3	3.6	5.2	18	18	13
2	13	7.8	7.8	6.7	8.6	6.7	6.2	3.7	5.5	16	19	13
3	9.3	7.1	8.2	6.7	9.4	6.7	7.0	3.8	5.2	14	21	12
4	7.8	6.7	8.2	6.7	9.0	6.7	7.2	3.6	12	15	22	9.7
5	8.0	6.3	8.2	6.7	9.0	6.7	7.3	3.3	27	18	62	9.5
6	7.5	7.7	8.2	7.1	8.6	6.7	7.4	3.3	23	17	43	9.9
7	7.8	7.4	7.5	7.1	8.6	6.7	7.8	6.0	17	14	24	9.1
8	9.6	6.7	7.4	7.1	7.8	6.7	8.7	4.8	225	19	52	7.6
9	9.4	5.9	7.4	7.1	7.8	6.3	7.4	4.7	474	30	29	5.7
10	9.0	6.6	7.4	7.1	7.0	6.3	7.4	33	567	24	15	5.5
11	12	6.5	7.4	7.1	7.0	6.5	6.4	143	132	18	14	5.6
12	13	8.2	7.4	7.1	7.1	6.7	5.5	26	52	17	13	9.4
13	9.8	8.5	8.7	7.1	7.1	6.7	5.5	16	21	17	12	11
14	9.4	8.3	7.9	6.7	7.1	6.6	5.5	9.5	12	14	16	9.6
15	12	7.8	7.1	7.1	7.8	6.8	5.5	7.5	9.0	16	18	7.8
16	12	7.1	6.7	8.5	7.7	6.7	5.4	6.2	7.3	15	16	7.7
17	24	6.1	6.7	8.8	7.4	6.7	4.6	6.2	6.4	15	16	14
18	13	5.2	7.1	8.6	7.4	6.7	4.6	7.2	5.8	14	16	13
19	8.2	6.3	7.4	8.6	7.4	7.1	4.7	5.6	5.2	17	17	9.6
20	7.8	6.7	7.1	8.6	7.4	7.4	5.6	5.7	4.9	16	16	13
21	7.8	7.3	7.1	9.3	7.3	6.3	5.0	12	2.7	15	19	17
22	7.1	7.7	7.1	9.2	7.3	6.7	4.6	8.5	9.6	23	21	9.3
23	7.1	7.4	7.1	8.6	7.1	7.4	4.5	5.3	20	23	22	9.6
24	6.6	7.2	7.1	8.6	7.2	7.2	4.6	6.5	17	23	21	10
25	6.3	7.5	7.8	8.6	7.3	7.1	5.0	19	8.5	25	18	9.9
26	7.6	7.5	7.7	9.1	7.4	6.9	5.3	57	11	28	20	10
27	7.9	7.8	7.1	9.0	7.4	6.7	5.3	72	10	24	23	9.7
28	8.9	7.4	7.1	9.5	7.3	7.9	5.6	11	11	19	22	9.2
29	9.4	7.8	7.1	9.5	------	6.5	3.9	7.2	14	22	18	8.7
30	8.6	7.5	7.1	9.1	------	6.3	3.9	5.5	16	20	18	7.5
31	8.6	------	6.7	9.1	------	6.1	------	5.2	------	19	14	------
TOTAL	312.5	216.6	230.6	246.8	216.1	209.2	173.7	511.9	1,736.3	585	675	296.5
MEAN	10.1	7.22	7.44	7.96	7.72	6.75	5.79	16.5	57.9	18.9	21.8	9.89
MAX	24	8.5	8.7	9.5	9.4	7.9	8.7	143	567	30	62	17
MIN	6.3	5.2	6.7	6.7	7.0	6.1	3.9	3.3	2.7	14	12	5.5
AC-FT	620	430	457	490	429	415	345	1,020	3,440	1,160	1,340	588

CAL YR 1973 TOTAL 4,413.8 MEAN 12.1 MAX 205 MIN 1.6 AC-FT 8,750
WTR YR 1974 TOTAL 5,410.3 MEAN 14.8 MAX 567 MIN 2.7 AC-FT 10,730

PEAK DISCHARGE (BASE, 300 FT³/S).--June 8 (2245) 1,020 ft³/s (16.35).

06837000 Republican River at McCook, Nebr.

LOCATION.--Lat 40°11'15", long 100°37'05", in SW1/4NE1/4 sec.32, T.3 N., R.29 W., Red Willow County, 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.

PERIOD OF RECORD.--October 1930 to June 1932, October 1954 to current year. Monthly discharge only for some periods, published in WSP 1310.

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.

AVERAGE DISCHARGE.--21 years, 209 ft³/s (5.919 m³/s), 151,400 acre-ft/yr (0.187 km³/yr).

EXTREMES.--Current year: Maximum discharge, 2,440 ft³/s (69.1 m³/s) June 9, gage height, 7.34 ft (2.237 m); minimum daily, 55 ft³/s (1.56 m³/s) Aug. 13,14.
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.
Maximum flood since at least 1826 occurred May 31, 1935, discharge, about 245,000 ft³/s (6,940 m³/s).

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 (see sta 06832000), and Swanson Lake (see sta 06829000). Records of water temperatures for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	309	146	160	90	189	329	337	283	82	126	295	288
2	254	143	162	85	185	331	337	277	79	137	297	247
3	205	142	159	80	182	331	356	192	76	133	295	240
4	178	140	154	80	180	326	346	128	82	133	300	162
5	160	141	155	85	180	323	364	120	123	131	765	126
6	161	150	148	85	167	321	357	118	131	118	612	124
7	157	152	150	90	159	322	385	122	112	108	356	119
8	155	151	152	90	159	314	388	119	395	130	386	103
9	153	149	148	90	174	318	368	119	2,020	181	436	89
10	140	149	146	90	195	317	362	183	1,080	160	179	83
11	170	146	152	90	192	326	359	428	580	149	115	82
12	178	146	157	95	188	324	355	166	300	142	79	93
13	168	145	157	105	199	330	352	132	211	130	55	99
14	172	143	158	110	202	333	355	119	176	153	55	103
15	170	139	151	120	200	339	353	111	142	177	59	105
16	152	140	152	125	197	336	345	109	117	179	57	104
17	160	143	150	130	199	333	338	111	108	219	78	101
18	162	142	145	140	199	328	327	117	102	222	162	99
19	160	146	130	150	198	336	328	109	96	225	184	93
20	158	142	130	170	290	333	335	106	85	226	235	90
21	156	135	135	180	330	322	315	93	81	218	309	104
22	154	150	140	200	325	323	315	82	79	250	341	100
23	152	160	140	220	328	325	311	78	82	243	341	93
24	140	158	130	210	318	329	317	85	86	245	334	94
25	141	158	125	205	330	327	320	130	85	288	335	92
26	146	160	125	205	324	327	310	103	73	246	333	87
27	150	159	120	200	326	333	298	204	76	238	334	83
28	147	158	120	203	327	334	294	111	89	218	348	80
29	147	160	110	194	------	330	300	94	103	214	338	82
30	140	161	105	190	------	326	292	89	107	275	312	83
31	143	------	100	188	------	330	------	81	------	296	345	------
TOTAL	5,138	4,454	4,366	4,295	6,442	10,156	10,119	4,319	6,958	5,910	8,670	3,448
MEAN	166	148	141	139	230	328	337	139	232	191	280	115
MAX	309	161	162	220	330	339	388	428	2,020	296	765	288
MIN	140	135	100	80	159	314	292	78	73	108	55	80
AC-FT	10,190	8,830	8,660	8,520	12,780	20,140	20,070	8,570	13,800	11,720	17,200	6,840

CAL YR 1973 TOTAL 65,785 MEAN 180 MAX 587 MIN 39 AC-FT 130,500
WTR YR 1974 TOTAL 74,275 MEAN 203 MAX 2,020 MIN 55 AC-FT 147,300

06837300 Red Willow Creek above Hugh Butler Lake, Nebr.

LOCATION.--Lat 40°24'05", long 100°46'45", in NE1/4SE1/4 sec.13, T.5 N., R.31 W., Hayes County, 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.

AVERAGE DISCHARGE.--14 years, 29.7 ft³/s (0.841 m³/s), 21,520 acre-ft/yr (26.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 223 ft³/s (6.32 m³/s) June 9, gage height, 2.87 ft (0.875 m); maximum gage height not determined, probably occurred during period of ice effect and no gage-height record Jan. 8-15; minimum daily, 7.5 ft³/s (0.21 m³/s) July 20.
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.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow affected by pump irrigation development above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	28	37	14	44	37	30	27	34	14	12	12
2	87	28	38	14	44	37	29	26	27	13	11	13
3	70	28	38	16	40	37	30	25	24	13	10	13
4	45	28	36	16	42	35	32	25	23	11	10	13
5	39	29	36	18	41	35	33	25	27	12	12	13
6	35	29	33	18	30	33	37	25	29	11	13	14
7	32	30	30	20	26	32	48	25	23	11	13	14
8	30	32	31	22	34	33	45	25	35	10	13	14
9	28	33	31	22	38	29	40	24	132	9.1	17	13
10	26	33	29	22	38	21	39	25	93	9.3	17	13
11	27	33	27	24	32	29	36	25	94	10	19	13
12	33	33	31	24	32	38	35	29	105	11	17	12
13	38	32	31	26	35	47	37	30	104	11	15	13
14	44	32	31	26	36	50	43	27	62	10	14	13
15	43	32	32	35	37	43	39	25	38	12	13	13
16	39	31	33	43	37	39	35	24	29	10	10	14
17	36	30	33	34	37	36	33	23	26	12	10	14
18	33	30	26	39	36	36	33	23	24	10	12	14
19	31	30	19	42	36	35	32	23	22	9.3	12	14
20	30	28	17	61	36	33	32	23	21	7.5	12	14
21	29	25	22	66	35	33	35	23	19	8.4	12	14
22	29	23	28	57	35	34	36	23	19	8.7	12	14
23	29	26	28	52	34	36	37	26	18	11	11	14
24	27	33	24	50	30	38	35	29	18	13	10	14
25	27	35	24	47	32	36	33	28	17	14	11	14
26	27	35	22	46	35	35	32	26	16	13	12	14
27	27	35	22	46	35	35	30	28	15	13	11	14
28	27	36	20	45	35	35	29	36	13	13	11	14
29	27	37	18	46	------	33	28	32	14	16	12	15
30	27	37	16	46	------	32	27	28	13	14	12	14
31	27	------	16	45	------	30	------	33	------	14	12	------
TOTAL	1,136	931	859	1,082	1,002	1,092	1,040	816	1,134	354.3	388	407
MEAN	36.6	31.0	27.7	34.9	35.8	35.2	34.7	26.3	37.8	11.4	12.5	13.6
MAX	87	37	38	66	44	50	48	36	132	16	19	15
MIN	26	23	16	14	26	21	27	23	13	7.5	10	12
AC-FT	2,250	1,850	1,700	2,150	1,990	2,170	2,060	1,620	2,250	703	770	807

CAL YR 1973 TOTAL 11,914.0 MEAN 32.6 MAX 257 MIN 6.8 AC-FT 23,630
WTR YR 1974 TOTAL 10,241.3 MEAN 28.1 MAX 132 MIN 7.5 AC-FT 20,310

PEAK DISCHARGE (BASE, 150 FT³/S).--June 9 (0315) 223 ft³/s (2.87 ft).

06837390 Hugh Butler Lake near McCook, Nebr.

LOCATION.--Lat 40°21'35", long 100°39'55", in SW1/4NW1/4 sec.31, T.5 N., R.29 W., Frontier County, 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.

GAGE.--Water-stage recorder. Gage is referred to mean sea level. Prior to July 10, 1962, nonrecording gages at present datum.

EXTREMES.--Current year: Maximum contents, 39,570 acre-ft (48.8 hm³) June 14,15, elevation, 2,582.89 ft (787.265 m); minimum, 26,680 acre-ft (32.9 hm³) Sept. 11, elevation, 2,574.12 ft (784.592 m).
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).

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 (768.71 m), sill of outlet works, and 2,581.8 ft (786.93 m), top of irrigation pool. Top of flood-control pool and crest of mean spillway at elevation 2,604.9 ft (793.97 m), capacity, 86,360 acre-ft (0.106 km³). Top of superstorage flood-control pool at evevation 2,627.8 ft (800.95 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.

REVISIONS.--WSP 2119: Drainage area.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

2,570	21,800	2,580	34,910
2,575	27,800	2,585	43,170

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29,090	30,570	31,910	33,320	35,350	36,560	37,760	38,760	38,420	37,310	30,340	27,020
2	29,240	30,570	31,990	33,460	35,380	36,590	37,760	38,780	38,350	37,130	30,130	26,930
3	29,360	30,580	32,030	33,490	35,420	36,660	37,860	38,760	38,370	36,800	29,920	26,860
4	29,430	30,640	32,080	33,560	35,520	36,710	37,860	38,760	38,370	36,510	29,720	26,850
5	29,490	30,680	32,140	33,610	35,550	36,710	37,860	38,760	38,430	36,210	29,810	26,780
6	29,530	30,740	32,150	33,650	35,570	36,760	37,920	38,760	38,420	35,940	29,720	26,810
7	29,600	30,780	32,200	33,700	35,570	36,790	38,050	38,760	38,350	35,670	29,600	26,790
8	29,640	30,830	32,240	33,740	35,660	36,800	38,100	38,760	38,900	35,380	29,580	26,780
9	29,680	30,850	32,300	33,810	35,750	36,840	38,130	38,810	39,180	35,160	29,570	26,780
10	29,680	30,910	32,310	33,840	35,780	36,890	38,220	38,960	39,260	34,880	29,540	26,730
11	29,800	30,970	32,360	33,880	35,820	36,930	38,270	38,960	39,320	34,650	29,510	26,680
12	29,810	31,000	32,450	33,910	35,880	36,970	38,300	38,960	39,440	34,450	29,500	26,710
13	29,850	31,060	32,450	33,970	35,930	37,030	38,330	38,950	39,520	34,220	29,450	26,710
14	29,920	31,130	32,490	34,000	35,960	37,110	38,370	38,930	39,570	33,970	29,430	26,710
15	29,980	31,140	32,520	34,050	36,010	37,180	38,380	38,830	39,540	33,710	29,390	26,710
16	30,020	31,170	32,550	34,090	36,070	37,190	38,380	38,810	39,470	33,470	29,300	26,740
17	30,070	31,230	32,670	34,140	36,120	37,260	38,420	38,760	39,370	33,280	29,190	26,760
18	30,130	31,240	32,790	34,220	36,160	37,290	38,430	38,760	39,360	33,040	29,070	26,770
19	30,150	31,340	32,790	34,280	36,210	37,350	38,550	38,760	39,360	32,800	28,940	26,790
20	a 30,190	31,410	32,790	34,370	36,270	37,370	38,610	38,760	39,340	32,580	28,720	26,790
21	30,220	31,420	32,850	34,490	36,310	37,370	38,650	38,730	39,260	32,340	28,550	26,790
22	30,290	31,480	32,890	34,600	36,310	37,400	38,650	38,680	39,130	32,150	28,350	26,790
23	30,330	31,520	32,940	34,680	36,340	37,450	38,650	38,660	39,010	31,930	28,180	26,790
24	30,340	31,560	33,050	34,740	36,370	37,450	38,680	38,610	38,880	31,730	27,980	26,830
25	30,360	31,620	33,080	34,830	36,390	37,520	38,700	38,610	38,730	31,590	27,810	26,830
26	30,380	31,690	33,110	34,890	36,450	37,530	38,760	38,580	38,550	31,490	27,670	26,850
27	30,410	31,750	33,160	34,960	36,500	37,580	38,800	38,520	38,370	31,300	27,530	26,860
28	30,430	31,770	33,190	35,030	36,500	37,660	38,760	38,520	38,130	31,130	27,400	26,850
29	30,470	31,830	33,220	35,110	------	37,660	38,760	38,520	37,860	30,960	27,330	26,860
30	30,490	31,870	33,250	35,180	------	37,700	38,760	38,480	37,520	30,780	27,250	26,860
31	30,550	------	33,280	35,270	------	37,740	------	38,450	------	30,570	27,120	------
MAX	30,550	31,870	33,280	35,270	36,500	37,740	38,800	38,960	39,570	37,310	30,340	27,020
MIN	29,090	30,570	31,910	33,320	35,350	36,560	37,760	38,450	37,520	30,570	27,120	26,680
(†)	+1,610	+1,320	+1,410	+1,990	+1,230	+1,240	+1,020	-310	-930	-6,950	-3,450	-260
(‡)	2,577.05	2,577.98	2,578.93	2,580.23	2,581.01	2,581.78	2,582.40	2,582.21	2,581.64	2,577.06	2,574.47	2,574.26

CAL YR 1973 MAX 39,750 MIN 27,200 † +890
WTR YR 1974 MAX 39,570 MIN 26,680 †-2,080

† Change in contents, in acre-feet.
‡ Elevation, in feet, at end of month.
a Contents interpolated.

06837500 Red Willow Creek near McCook, Nebr.

LOCATION.--Lat 40°20'50", long 100°38'35", in SW1/4NW1/4 sec.6, T.4 N., R.29 W., Red Willow County, 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. Prior to Sept. 27 at site 45 ft (14 m) upstream.

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.

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.

AVERAGE DISCHARGE.--21 years, 25.1 ft³/s (0.711 m³/s), 18,180 acre-ft/yr (22.4 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 138 ft³/s (3.91 m³/s) July 8, gage height, 10.15 ft (3.094 m); minimum daily, 3.1 ft³/s (0.088 m³/s) Apr. 30, May 1.
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.
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).

REMARKS.--Records good. Natural flow affected by irrigation development above station and, since Sept. 5, 1961, by storage in Hugh Butler Lake. (See preceding page.)

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	4.1	4.7	4.7	4.7	4.4	4.9	3.1	33	132	99	55
2	4.9	4.4	4.5	4.7	4.7	4.4	4.7	3.4	33	131	99	55
3	4.7	4.4	4.5	4.7	4.7	4.4	4.7	3.5	33	132	99	40
4	4.4	4.1	4.5	4.7	4.7	4.4	4.7	4.7	32	131	99	25
5	4.4	4.2	4.5	4.7	4.7	4.4	4.7	4.9	35	133	100	25
6	4.2	4.2	4.5	4.7	4.7	4.4	4.6	4.9	33	135	82	24
7	3.5	4.2	4.5	4.7	4.7	4.4	4.4	4.9	33	136	64	21
8	4.2	4.0	4.7	4.7	4.7	4.4	4.6	5.0	37	136	63	21
9	4.1	3.5	4.7	4.6	4.7	4.4	4.7	5.4	37	137	43	20
10	4.1	3.5	4.7	4.5	4.7	4.4	4.6	4.3	35	133	24	20
11	4.4	3.6	4.7	4.5	4.4	4.4	4.5	4.4	37	122	24	17
12	4.1	4.2	4.7	4.5	4.7	4.6	4.5	3.9	34	115	22	13
13	5.1	4.4	4.7	4.5	4.7	4.7	4.5	16	34	114	22	12
14	4.9	4.5	4.7	4.5	4.7	4.7	4.5	32	34	113	25	5.5
15	5.0	4.5	4.7	4.5	4.7	4.7	4.5	29	34	113	36	5.5
16	4.8	4.3	4.7	4.5	4.4	4.7	4.3	23	34	113	52	5.2
17	5.4	4.3	4.4	4.5	4.4	4.7	4.0	22	34	112	56	5.1
18	5.2	4.3	4.5	4.5	4.4	4.7	3.3	18	33	111	63	4.9
19	5.1	4.3	4.6	4.5	4.4	4.7	4.0	21	33	110	77	4.7
20	4.8	4.3	4.7	4.5	4.4	4.7	4.1	20	33	110	99	4.7
21	4.7	4.5	4.7	4.5	4.0	4.7	4.1	20	32	111	97	4.7
22	3.6	4.1	4.7	4.5	4.7	4.9	4.1	24	32	110	92	4.7
23	3.3	4.2	4.7	4.5	4.7	4.9	3.9	33	38	109	94	4.7
24	3.9	4.0	4.7	4.5	4.7	4.9	3.5	33	55	112	94	4.6
25	4.1	4.7	4.7	4.5	4.7	4.9	3.3	33	64	112	94	4.7
26	4.1	4.7	4.7	4.5	5.2	4.7	3.4	33	84	105	85	4.8
27	4.0	4.2	4.7	4.5	4.7	4.9	3.9	34	90	97	68	4.4
28	4.7	4.7	4.7	4.7	4.4	4.9	3.6	33	122	95	63	4.4
29	5.1	5.2	4.7	4.7	------	4.9	3.3	33	132	94	64	4.4
30	5.2	5.2	4.7	4.7	------	4.9	3.1	33	132	95	59	4.2
31	4.9	------	4.7	4.7	------	4.9	------	33	------	99	57	------
TOTAL	140.1	128.8	143.9	142.0	129.3	144.1	125.0	575.4	1,462	3,608	2,115	429.2
MEAN	4.52	4.29	4.64	4.58	4.62	4.65	4.17	18.6	48.7	116	68.2	14.3
MAX	5.4	5.2	4.7	4.7	5.2	4.9	4.9	34	132	137	100	55
MIN	3.3	3.5	4.4	4.5	4.0	4.4	3.1	3.1	32	94	22	4.2
AC-FT	278	255	285	282	256	286	248	1,140	2,900	7,160	4,200	851

CAL YR 1973 TOTAL 11,067.8 MEAN 30.3 MAX 161 MIN 3.3 AC-FT 21,950
WTR YR 1974 TOTAL 9,142.8 MEAN 25.0 MAX 137 MIN 3.1 AC-FT 18,130

06838000 Red Willow Creek near Red Willow, Nebr.

LOCATION.--Lat 40°14'10", long 100°30'00", in NE1/4NE1/4 sec.17, T.3 N., R.28 W., Red Willow County, 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. Prior to Aug. 3, on left bank at downstream side of bridge.

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.

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.

AVERAGE DISCHARGE.--35 years, 32.5 ft³/s (0.920 m³/s), 23,550 acre-ft/yr (29.0 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 311 ft³/s (8.81 m³/s) June 9, gage height, 8.11 ft (2.472 m); minimum daily, 1.1 ft³/s (0.031 m³/s) May 16.
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.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation development above station, since Sept. 5, 1961, by storage in Hugh Butler Lake (see sta 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).

REVISIONS (WATER YEARS).--WSP 1510: 1945(M). WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	12	11	10	13	12	12	11	34	44	13	4.0
2	8.8	11	11	10	13	12	12	11	35	44	15	12
3	8.8	11	11	10	13	12	12	11	36	42	17	23
4	13	12	11	9.6	13	12	14	11	37	39	16	8.9
5	13	11	11	9.0	13	11	13	12	41	37	24	5.4
6	11	12	10	9.0	11	12	13	12	44	36	27	8.1
7	10	12	10	9.0	10	11	13	11	37	35	7.6	8.0
8	10	12	11	9.0	11	11	13	11	65	36	9.1	6.4
9	10	11	11	9.2	12	11	13	11	207	39	23	5.9
10	11	11	9.8	9.2	13	11	13	17	54	41	8.3	5.6
11	13	11	11	9.2	12	12	13	5.0	42	41	6.4	4.9
12	12	11	11	9.2	12	11	13	4.1	40	38	6.4	2.2
13	11	11	11	9.2	12	12	13	6.4	40	35	7.3	11
14	11	11	11	9.2	12	12	13	1.4	39	32	9.1	11
15	11	11	11	9.6	12	12	12	1.3	39	29	12	8.0
16	11	11	11	10	12	12	13	1.1	39	27	13	8.0
17	11	11	11	10	13	12	12	11	39	21	13	7.5
18	11	11	10	11	13	12	12	8.9	39	17	13	7.8
19	11	11	9.6	11	13	12	12	8.2	38	13	17	7.7
20	11	10	9.0	12	13	12	13	6.2	32	13	12	7.3
21	10	9.6	9.8	12	13	12	13	11	15	13	16	7.5
22	10	9.6	10	12	11	12	13	6.9	11	16	4.0	8.0
23	10	9.8	10	12	13	12	13	4.5	12	17	6.6	8.1
24	11	10	9.6	13	11	12	12	4.6	22	19	12	8.1
25	13	10	9.0	12	12	12	12	15	22	14	13	7.9
26	12	11	9.2	13	13	12	11	16	27	16	19	7.8
27	12	11	9.0	13	12	12	12	16	19	7.0	14	7.9
28	11	11	9.0	13	12	12	12	17	24	5.6	6.9	7.6
29	12	11	9.4	13	------	12	11	17	39	8.9	5.1	7.8
30	13	11	9.4	13	------	12	11	18	42	12	6.6	7.8
31	12	------	9.6	13	------	12	------	24	------	13	3.8	------
TOTAL	343.5	328.0	316.4	333.4	343	366	374	321.6	1,210	800.5	376.2	241.2
MEAN	11.1	10.9	10.2	10.8	12.3	11.8	12.5	10.4	40.3	25.8	12.1	8.04
MAX	13	12	11	13	13	12	14	24	207	44	27	23
MIN	8.8	9.6	9.0	9.0	10	11	11	1.1	11	5.6	3.8	2.2
AC-FT	681	651	628	661	680	726	742	638	2,400	1,590	746	478

CAL YR 1973 TOTAL 8,086.0 MEAN 22.2 MAX 211 MIN 7.5 AC-FT 16,040
WTR YR 1974 TOTAL 5,353.8 MEAN 14.7 MAX 207 MIN 1.1 AC-FT 10,620

06841000 Medicine Creek above Harry Strunk Lake, Nebr.

LOCATION.--Lat 40°30'10", long 100°19'20", in SW1/4 sec.7, T.6 N., R.26 W., Frontier County, 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."

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).

AVERAGE DISCHARGE.--24 years, 69.7 ft³/s (1.974 m³/s), 50,500 acre-ft/yr (62.3 hm³/yr); median of yearly mean discharges, 60 ft³/s (1.699 m³/s), 43,500 acre-ft/yr (53.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 325 ft³/s (9.20 m³/s) June 9, gage height, 5.77 ft (1.759 m); minimum daily, 17 ft³/s (0.48 m³/s) July 22,23.
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, 14 ft³/s (0.40 m³/s) Aug. 4, 5, 1955, Aug. 21, 1959, Aug. 8, 10, 1964.
Maximum stage since at least 1874, 24.4 ft (7.44 m) June 22, 1947, from floodmark (discharge not determined).

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation development above station.

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	54	62	45	68	65	60	56	55	31	24	26
2	65	54	62	45	67	65	61	56	55	31	19	26
3	59	54	62	45	66	65	63	56	53	30	21	24
4	55	55	62	45	65	64	63	55	48	29	22	26
5	53	56	62	45	66	63	65	55	51	28	26	28
6	52	58	60	48	64	63	69	54	54	28	30	30
7	51	60	56	50	61	64	70	54	54	24	27	31
8	51	60	52	50	59	65	69	54	83	24	28	30
9	50	59	54	52	60	66	68	54	242	25	29	29
10	50	59	58	52	62	68	66	85	176	22	32	27
11	50	59	58	52	61	69	65	79	137	20	38	27
12	50	59	58	53	63	70	63	64	105	20	34	29
13	51	59	58	54	64	69	65	59	81	20	33	31
14	51	59	58	55	65	67	66	54	66	18	30	33
15	51	58	57	57	65	66	64	51	55	20	26	34
16	51	58	59	60	64	64	62	51	50	21	27	34
17	51	58	59	65	64	64	62	50	49	21	25	34
18	51	57	58	70	65	63	62	51	48	20	27	33
19	51	57	58	75	64	62	61	50	47	20	26	32
20	51	61	54	80	64	63	63	50	46	19	21	32
21	51	60	51	85	64	63	68	54	43	19	22	34
22	51	57	51	84	63	63	69	53	41	17	22	35
23	50	60	50	82	63	64	65	54	39	17	22	35
24	53	61	48	80	63	62	62	52	38	19	25	35
25	53	61	46	78	64	61	61	49	38	42	26	36
26	52	61	46	75	62	62	59	50	38	28	25	35
27	51	62	46	71	63	63	59	49	36	29	24	34
28	52	62	45	69	64	63	59	50	35	28	25	32
29	52	62	45	68	------	63	58	57	34	26	25	33
30	54	62	45	67	------	61	57	54	32	25	25	34
31	54	------	45	68	------	61	------	55	------	24	26	------
TOTAL	1,646	1,762	1,685	1,925	1,783	1,991	1,904	1,715	1,929	745	812	939
MEAN	53.1	58.7	54.4	62.1	63.7	64.2	63.5	55.3	64.3	24.0	26.2	31.3
MAX	79	62	62	85	68	70	70	85	242	42	38	36
MIN	50	54	45	45	59	61	57	49	32	17	19	24
AC-FT	3,260	3,490	3,340	3,820	3,540	3,950	3,780	3,400	3,830	1,480	1,610	1,860

CAL YR 1973 TOTAL 22,151 MEAN 60.7 MAX 698 MIN 21 AC-FT 43,940
WTR YR 1974 TOTAL 18,836 MEAN 51.6 MAX 242 MIN 17 AC-FT 37,360

PEAK DISCHARGE (BASE, 1,200 FT³/S).--No peak above base.

06841500 Mitchell Creek above Harry Strunk Lake, Nebr.

LOCATION.--Lat 40°28'20", long 100°15'25", in NW1/4SE1/4 sec.22, T.6 N., R.26 W., Frontier County, on left bank at top of Harry Strunk Lake flood-control pool, 2.2 mi (3.5 km) southwest of Orafino, 9.5 mi (15.3 km) upstream from Medicine Creek Dam, and 14 mi (23 km) northwest of Cambridge.

DRAINAGE AREA.--52 mi² (130 km²), approximately.

PERIOD OF RECORD.--May 1950 to September 1974 (discontinued). Prior to October 1950, published as "above Medicine Creek Reservoir."

GAGE.--Water-stage recorder. Concrete control since February 1953. Datum of gage is 2,376.95 ft (724.494 m) above mean sea level (Bureau of Reclamation bench mark).

AVERAGE DISCHARGE.--24 years, 2.30 ft³/s (0.0651 m³/s), 1,670 acre-ft/yr (2.06 hm³/yr); median of yearly mean discharges, 1.2 ft³/s (0.0339 m³/s), 870 acre-ft/yr (1.07 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 23 ft³/s (0.65 m³/s) June 10, gage height, 4.26 ft (1.298 m); no flow most of year.
Period of record: Maximum discharge, 5,230 ft³/s (148 m³/s) May 20, 1951, gage height, 17.35 ft (5.288 m); maximum gage height, 19.94 ft (6.078 m) June 16, 1962; no flow for most of time in each year. Flood of June 21, 1948, reached a stage of about 28 ft (8.5 m), from floodmarks (discharge not determined).

REMARKS.--Records poor.

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08			0				0	0	0		
2	0			0				0	0	0		
3	0			0				0	0	0		
4	0			0				0	0	0		
5	0			0				0	0	0		
6	0			0				0	0	0		
7	0			0				0	0	0		
8	0			0				0	1.1	0		
9	0			0				0	7.2	0		
10	0			0				0	11	0		
11	0			0				2.8	1.7	0		
12	0			0				.06	3.2	0		
13	0			0				0	.67	0		
14	0			0				0	0	0		
15	0			0				0	0	0		
16	0			0				0	0	0		
17	0			0				0	0	0		
18	0			1.1				0	0	0		
19	0			4.2				0	0	0		
20	0			2.2				0	0	0		
21	0			2.7				0	0	0		
22	0			1.2				0	0	.01		
23	0			.24				0	0	0		
24	0			0				0	0	.96		
25	0			0				0	0	0		
26	0			.03				0	0	0		
27	0			.04				0	0	0		
28	0			.02				0	0	0		
29	0			0	------			0	0	0		
30	0			.05	------			0	0	0		
31	0	------		0	------		------	0	------	0		------
TOTAL	.08	0	0	11.78	0	0	0	2.86	24.87	.97	0	0
MEAN	.003	0	0	.38	0	0	0	.092	.83	.031	0	0
MAX	.08	0	0	4.2	0	0	0	2.8	11	.96	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.2	0	0	23	0	0	0	5.7	49	1.9	0	0

CAL YR 1973 TOTAL 553.76 MEAN 1.52 MAX 83 MIN 0 AC-FT 1,100
WTR YR 1974 TOTAL 40.56 MEAN .11 MAX 11 MIN 0 AC-FT 80

PEAK DISCHARGE (BASE, 300 FT³/S).--No peak above base.

06842000 Harry Strunk Lake near Cambridge, Nebr.

LOCATION.--Lat 40°22'40", long 100°13'00", in NE1/4 sec.25, T.5 N., R.26 W., Frontier County, 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.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Aug. 18, 1960, nonrecording gage at present datum.

EXTREMES.--Current year: Maximum contents, 39,180 acre-ft (48.3 hm³) June 12-15, elevation, 2,367.18 ft (721.516 m); minimum observed, 14,200 acre-ft (17.5 hm³) Aug. 29, elevation, 2,348.86 ft (715.933 m). 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 observed since operation of reservoir began, 14,200 acre-ft (17.5 hm³) Aug. 29, 1974, elevation 2,348.86 ft (715.933 m); minimum observed elevation, 2,347.45 ft (715.503 m) Sept. 20, 21, 1955.

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 (711.71 m), sill of outlet gates, and 2,366.1 ft (721.19 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 (727.31 m), capacity, 89,310 acre-ft (0.110 km³). Top of superstorage flood-control pool at elevation 2,400.0 ft (731.52 m), capacity, 147,400 acre-ft (0.182 km³). Maximum water-surface elevation, 2,408.9 ft (734.23 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.

REVISIONS.--WSP 2119: Drainage area.

Capacity table (elevation, in feet, and useable contents, in acre-feet)

2,345	11,000	2,360	27,100
2,350	15,250	2,365	35,140
2,355	20,550	2,370	44,890

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19,230	22,420	25,790	28,870	32,640	35,540	38,250	38,080	37,980	36,100	17,640	14,390
2	19,350	22,470	25,940	28,980	32,740	35,650	38,320	38,060	37,980	35,470	17,350	14,400
3	19,460	22,570	26,040	29,090	32,840	35,760	38,440	37,980	37,980	34,790	17,110	14,450
4	19,550	22,640	26,120	29,200	32,990	35,850	38,510	37,950	38,000	34,060	16,910	14,470
5	19,660	22,750	26,220	29,270	33,120	35,920	38,570	37,910	38,080	33,320	16,910	14,540
6	19,780	22,880	26,300	29,370	33,180	36,070	38,620	37,850	38,080	32,600	16,880	14,600
7	19,880	22,980	26,420	29,470	33,270	36,120	38,640	37,830	38,040	31,850	16,960	14,660
8	19,980	23,070	26,520	29,570	33,400	36,210	38,640	37,800	38,510	31,170	17,230	14,700
9	20,100	23,150	26,630	29,660	33,470	36,340	38,660	37,800	38,830	30,560	17,290	14,750
10	20,190	23,290	26,720	29,750	33,570	36,370	38,770	37,980	39,060	29,980	17,340	14,810
11	20,290	23,410	26,760	29,860	33,700	36,520	38,870	38,060	39,080	29,430	17,390	14,830
12	20,430	23,530	26,920	29,970	33,780	36,590	38,870	38,060	39,180	28,780	17,460	14,840
13	20,540	23,630	26,940	30,070	33,990	36,640	38,910	38,130	39,180	28,140	17,530	14,860
14	20,670	23,750	27,030	30,200	34,010	36,770	38,890	38,060	39,180	27,510	17,500	14,920
15	20,780	23,840	27,100	30,270	34,110	36,880	38,930	38,000	39,080	26,790	17,430	14,980
16	20,850	23,930	27,260	30,360	34,220	36,900	38,870	38,020	39,010	26,090	17,220	15,040
17	20,960	24,050	27,400	30,510	34,340	37,140	38,790	38,020	38,890	25,370	16,960	15,120
18	21,090	24,130	27,630	30,650	34,430	37,180	38,770	38,020	38,890	24,670	16,730	15,170
19	21,190	24,320	27,690	30,820	34,550	37,250	38,750	38,060	38,790	24,000	16,370	15,210
20	21,280	24,530	27,720	30,960	34,710	37,360	38,680	38,130	38,770	23,320	15,980	15,240
21	21,390	24,630	27,770	31,170	34,830	37,440	38,620	38,130	38,680	22,640	15,540	15,270
22	21,490	24,740	27,840	31,310	34,900	37,510	38,600	38,080	38,510	22,120	15,210	15,310
23	21,610	24,880	27,970	31,460	34,970	37,570	38,530	38,060	38,450	21,490	14,960	15,370
24	21,680	25,000	28,090	31,590	35,000	37,630	38,420	38,080	38,340	20,960	14,760	15,450
25	21,750	25,150	28,200	31,750	35,090	37,720	38,420	38,040	38,300	20,490	14,580	15,500
26	21,830	25,230	28,310	31,830	35,210	37,810	38,400	38,040	38,120	20,100	14,440	15,560
27	21,910	25,340	28,430	31,980	35,380	37,890	38,400	38,060	37,930	19,690	14,320	15,610
28	22,000	25,480	28,510	32,130	35,390	38,120	38,280	38,080	37,550	19,270	14,220	15,620
29	22,130	25,570	28,630	32,280	------	38,130	38,210	38,080	37,060	18,850	14,310	15,690
30	22,200	25,670	28,720	32,400	------	38,210	38,150	38,080	36,630	18,390	14,350	15,690
31	22,320	------	28,800	32,500	------	38,230	------	38,000	------	18,000	14,390	------
MAX	22,320	25,670	28,800	32,500	35,390	38,230	38,930	38,130	39,180	36,100	17,640	15,690
MIN	19,230	22,420	25,790	28,870	32,640	35,540	38,150	37,800	36,630	18,000	14,220	14,390
(†)	+3,260	+3,350	+3,130	+3,700	+2,890	+2,840	-80	-150	-1,370	-18,630	-3,610	+1,300
(‡)	2,356.45	2,358.99	2,361.14	2,363.46	2,365.14	2,366.68	2,366.64	2,366.56	2,365.82	2,352.73	2,349.06	2,350.45

CAL YR 1973 MAX 39,860 MIN 16,310 † +440
WTR YR 1974 MAX 39,180 MIN 14,220 † -3,370

† Change in contents, in acre-feet.
‡ Elevation, in feet, at end of month.

06842500 Medicine Creek below Harry Strunk Lake, Nebr.

LOCATION.--Lat 40°22'20", long 100°13'20", at center of sec.25, T.5 N., R.26 W., Frontier County, 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.

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.

AVERAGE DISCHARGE.--25 years, 66.0 ft³/s (1.869 m³/s), 47,820 acre-ft/yr (59.0 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 415 ft³/s (11.8 m³/s) July 4, gage height, 3.06 ft (0.933 m); maximum gage height, 3.08 ft (0.939 m) July 16,17; minimum daily discharge 0.45 ft³/s (0.013 m³/s) Sept. 24,25.
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.

REMARKS.--Records good. Flow regulated by Harry Strunk Lake. (See preceding page.) Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	1.9	1.6	3.2	3.5	5.1	23	67	42	290	142	1.6
2	.77	1.0	1.6	3.2	3.5	5.1	25	66	42	343	124	1.8
3	1.1	1.1	1.6	3.2	3.5	5.1	33	65	42	356	120	1.7
4	1.3	1.2	.61	3.2	3.5	5.2	27	64	44	389	60	2.2
5	1.0	1.2	.57	3.2	3.6	5.1	27	63	45	396	4.3	2.3
6	.55	1.2	2.3	3.2	3.5	5.2	28	63	46	396	1.4	1.3
7	.85	.87	3.5	3.2	3.3	5.4	33	62	45	390	2.4	1.9
8	1.2	.88	3.5	3.2	3.1	5.4	31	40	50	389	1.3	2.3
9	1.6	1.1	3.7	3.3	3.2	5.3	31	29	65	368	1.4	1.6
10	2.4	1.2	3.7	3.7	3.2	5.4	32	32	68	314	1.1	.60
11	2.0	1.2	3.7	3.7	3.2	5.4	34	36	75	284	1.4	.69
12	1.1	1.5	3.7	3.7	5.0	5.4	37	36	75	308	7.4	1.3
13	1.2	1.8	3.7	3.6	4.5	5.4	38	37	74	325	36	1.8
14	1.9	1.8	3.7	3.5	4.5	5.4	38	35	74	329	86	2.0
15	2.9	1.8	3.7	3.5	4.7	5.7	37	34	72	358	141	2.5
16	3.8	1.8	3.7	3.5	4.6	5.8	76	35	69	392	141	2.9
17	4.2	1.7	3.7	3.5	4.7	5.8	87	34	66	383	141	1.5
18	4.3	1.7	3.7	3.5	4.8	7.2	85	34	65	381	209	1.2
19	4.6	1.7	3.7	3.5	4.8	6.4	84	34	64	359	250	1.8
20	5.5	1.7	4.0	3.5	4.8	7.2	83	35	61	356	189	.73
21	5.7	1.7	3.9	3.5	4.6	7.0	82	35	59	361	144	.70
22	5.7	1.6	3.7	3.5	4.5	8.9	80	44	57	343	123	.60
23	4.3	1.6	3.7	3.5	4.8	9.7	79	44	54	329	120	.50
24	2.3	1.6	3.8	3.5	4.8	11	77	44	51	327	100	.45
25	.95	1.6	3.7	3.5	4.9	12	76	44	47	307	80	.45
26	1.3	1.6	3.1	3.5	5.1	14	74	44	60	240	70	.50
27	1.2	1.6	2.8	3.5	5.1	15	75	42	150	209	60	.50
28	1.3	1.6	2.9	3.5	5.1	17	74	42	227	228	30	.55
29	1.5	1.6	2.9	3.5	------	23	72	44	243	252	5.2	.55
30	1.4	1.6	3.2	3.5	------	21	68	43	252	258	1.1	.60
31	1.5	------	3.2	3.6	------	23	------	42	------	224	1.3	------
TOTAL	70.21	44.45	96.88	106.7	118.4	273.6	1,646	1,369	2,384	10,184	2,394.3	39.12
MEAN	2.26	1.48	3.13	3.44	4.23	8.83	54.9	44.2	79.5	329	77.2	1.30
MAX	5.7	1.9	4.0	3.7	5.1	23	87	67	252	396	250	2.9
MIN	.55	.87	.57	3.2	3.1	5.1	23	29	42	209	1.1	.45
AC-FT	139	88	192	212	235	543	3,260	2,720	4,730	20,200	4,750	78

CAL YR 1973 TOTAL 22,212.46 MEAN 60.9 MAX 409 MIN .20 AC-FT 44,060
WTR YR 1974 TOTAL 18,726.66 MEAN 51.3 MAX 396 MIN .45 AC-FT 37,140

06843500 Republican River at Cambridge, Nebr.

LOCATION.--Lat 40°17'05", long 100°08'35", in NW1/4SE1/4 sec.28, T.4 N., R.25 W., Furnas County, 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.

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.

AVERAGE DISCHARGE.--29 years, 345 ft³/s (9.770 m³/s), 250,000 acre-ft/yr (0.308 km³/yr).

EXTREMES.--Current year: Maximum discharge, 5,200 ft³/s (147 m³/s) June 9, gage height, 8.35 ft (2.545 m); minimum daily, 67 ft³/s (1.90 m³/s) Sept. 27.
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.
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).

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.

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	457	191	197	125	272	366	377	346	157	411	361	256
2	352	186	210	125	260	369	365	339	163	454	331	225
3	306	180	217	125	248	373	394	329	175	418	281	233
4	270	184	230	123	245	368	400	276	195	404	259	233
5	253	192	228	122	247	370	403	235	235	384	276	169
6	232	195	225	122	235	366	416	221	282	373	992	141
7	225	193	225	122	225	368	427	205	251	363	480	133
8	214	187	229	122	231	369	465	196	287	364	360	114
9	205	181	218	125	239	364	456	177	2,940	407	562	96
10	198	182	214	130	244	371	447	218	2,140	390	591	84
11	224	186	216	135	243	391	453	309	1,450	328	302	81
12	243	186	212	140	246	377	444	395	720	324	217	88
13	234	190	210	145	247	365	440	242	533	344	152	95
14	227	191	209	145	262	383	430	201	435	333	130	119
15	227	188	205	150	269	403	431	164	388	376	158	109
16	226	189	203	160	267	406	437	156	343	389	217	103
17	216	189	200	170	260	403	461	163	322	396	245	96
18	211	182	175	180	257	397	451	175	300	411	237	92
19	205	182	135	195	259	400	436	167	275	416	286	83
20	198	200	150	210	259	397	451	159	261	396	336	77
21	190	170	160	230	324	390	431	145	195	406	354	68
22	191	160	160	245	345	375	413	152	151	404	390	84
23	190	170	165	260	355	375	405	137	147	410	352	76
24	191	185	165	270	353	361	393	139	164	425	338	75
25	185	200	165	275	358	364	390	167	174	434	329	76
26	182	230	165	280	371	364	386	185	164	425	305	71
27	186	265	165	285	370	368	378	167	212	325	289	67
28	195	202	160	285	369	374	366	213	294	311	267	72
29	196	193	150	300	------	369	354	160	338	327	232	73
30	197	192	135	350	------	375	350	140	379	356	233	77
31	193	------	125	305	------	379	------	135	------	382	230	------
TOTAL	7,019	5,721	5,823	5,956	7,860	11,700	12,450	6,413	14,070	11,886	10,092	3,366
MEAN	226	191	188	192	281	377	415	207	469	383	326	112
MAX	457	265	230	350	371	406	465	395	2,940	454	992	256
MIN	182	160	125	122	225	361	350	135	147	311	130	67
AC-FT	13,920	11,350	11,550	11,810	15,590	23,210	24,690	12,720	27,910	23,580	20,020	6,680

CAL YR 1973 TOTAL 99,102 MEAN 272 MAX 829 MIN 60 AC-FT 196,600
WTR YR 1974 TOTAL 102,356 MEAN 280 MAX 2,940 MIN 67 AC-FT 203,000

06844500 Republican River near Orleans, Nebr.

LOCATION.--Lat 40°07'53", long 99°30'08", in NE1/4NE1/4 sec.19, T.2 N., R.19 W., Harlan County, 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.

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

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.

AVERAGE DISCHARGE.--27 years, 338 ft³/s (9.572 m³/s), 244,900 acre-ft/yr (0.302 km³/yr).

EXTREMES.--Current year: Maximum discharge, 3,120 ft³/s (88.4 m³/s) June 10, gage height, 8.22 ft (2.505 m); minimum daily, 16 ft³/s (0.45 m³/s) July 30.
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.
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).

REMARKS.--Records fair except those for winter period, which are poor. Natural flow affected by irrigation development above station and regulation by upstream reservoirs. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	582	222	246	140	433	419	402	372	121	106	54	78
2	540	222	248	135	406	424	401	362	119	115	61	105
3	425	220	250	140	379	427	412	349	126	101	61	122
4	371	219	265	145	364	427	428	348	136	90	54	124
5	330	220	263	150	362	421	439	330	187	79	60	133
6	305	228	254	155	353	415	430	276	237	71	87	136
7	290	232	252	160	351	410	441	253	303	61	275	110
8	272	230	251	160	348	407	443	236	316	54	416	95
9	321	227	257	160	306	408	462	229	428	51	288	84
10	299	231	254	160	303	408	473	229	2,300	65	304	69
11	292	235	261	165	301	430	466	252	1,800	64	417	52
12	329	233	247	170	308	444	447	295	1,290	71	292	46
13	309	236	245	170	310	448	468	382	881	46	199	56
14	293	233	246	175	311	445	463	324	672	37	149	81
15	274	230	249	175	315	445	451	265	566	39	102	88
16	265	226	256	180	325	444	442	226	499	40	74	86
17	260	226	243	190	331	442	444	202	447	30	58	80
18	254	226	230	200	335	440	470	202	408	22	57	74
19	244	230	190	215	332	437	476	200	379	20	57	67
20	244	262	140	240	330	432	500	200	352	17	49	61
21	239	165	150	275	319	431	479	191	317	24	54	64
22	234	170	150	295	339	426	481	161	247	20	56	62
23	235	175	160	320	392	415	470	151	201	35	56	58
24	234	190	175	330	392	410	465	130	174	31	71	64
25	231	210	185	340	409	409	447	120	168	32	66	63
26	232	278	190	350	404	406	428	115	139	46	57	60
27	232	299	190	365	415	404	429	124	127	45	46	56
28	231	288	190	380	414	401	405	129	105	47	54	50
29	227	263	175	400	------	395	389	140	97	27	61	47
30	221	255	160	440	------	389	377	182	98	16	66	48
31	221	------	150	477	------	389	------	141	------	18	57	------
TOTAL	9,036	6,881	6,722	7,357	9,887	13,048	13,328	7,116	13,240	1,520	3,758	2,319
MEAN	291	229	217	237	353	421	444	230	441	49.0	121	77.3
MAX	582	299	265	477	433	448	500	382	2,300	115	417	136
MIN	221	165	140	135	301	389	377	115	97	16	46	46
AC-FT	17,920	13,650	13,330	14,590	19,610	25,880	26,440	14,110	26,260	3,010	7,450	4,600

CAL YR 1973 TOTAL 101,317 MEAN 278 MAX 1,790 MIN 15 AC-FT 201,000
WTR YR 1974 TOTAL 94,212 MEAN 258 MAX 2,300 MIN 16 AC-FT 186,900

06846500 Beaver Creek at Cedar Bluffs, Kans.

LOCATION.--Lat 39°59'06", long 100°33'35", in NW1/4NE1/4 sec.10, T.1 S., R.29 W., Decatur County, 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 (1.5 km) south of Kansas-Nebraska State line, and at mi 107.4 (172.8 km). Prior to July 13, 1972, at temporary site 0.8 mi (1.3 km) downstream.

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.

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.

AVERAGE DISCHARGE.--29 years, 22.3 ft³/s (0.632 m³/s), 16,160 acre-ft/yr (19.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 546 ft³/s (15.5 m³/s) June 9, gage height, 7.97 ft (2.429 m); no flow at times.
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.
Flood in July 1944 reached a stage of 18.16 ft (5.535 m), from floodmark.

REMARKS.--Records fair. Records of suspended sediment loads for the water year 1974 are published in Part 2 of WRD Kans.

REVISIONS (WATER YEARS).--WSP 1510: 1947, 1950-51.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	0	0		0	.20	1.3	4.0	16	8.4	1.9	
2	48	0	0		0	2.3	1.6	3.0	13	6.7	2.4	
3	17	0	0		0	1.6	2.6	2.6	6.5	5.4	1.6	
4	7.5	0	0		0	2.6	3.8	2.7	4.4	4.6	.44	
5	4.0	0	.90		0	4.3	2.6	2.7	3.1	4.1	25	
6	1.8	0	0		0	7.0	2.8	2.6	3.4	3.6	8.6	
7	1.6	0	.01		0	4.4	4.4	2.8	3.5	3.1	44	
8	2.2	0	0		0	2.6	6.7	2.3	63	2.6	42	
9	.77	0	0		0	1.1	6.0	1.8	492	3.2	108	
10	.25	0	.06		0	.57	5.0	1.8	287	4.0	13	
11	.38	0	0		0	.45	4.0	1.8	170	6.8	1.5	
12	.18	0	0		0	.22	7.0	3.0	269	4.8	.12	
13	.12	0	0		0	.20	10	5.6	249	2.5	0	
14	.02	0	0		0	.18	8.0	3.2	106	2.3	0	
15	0	0	0		0	.32	8.0	2.1	74	24	.54	
16	0	0	0		0	1.0	7.0	1.4	59	14	1.4	
17	0	0	0		0	1.3	7.0	1.2	49	7.0	.36	
18	0	0	0		0	1.3	6.0	1.3	43	4.7	0	
19	0	0	0		2.6	1.3	6.0	.83	37	2.7	.19	
20	0	.85	0		3.0	1.2	8.0	.70	32	1.4	.38	
21	0	.42	0		2.6	1.2	7.0	.64	27	.58	0	
22	0	.13	0		2.0	1.0	7.0	.38	20	.32	0	
23	0	0	0		1.0	1.2	6.0	.38	16	1.6	0	
24	0	0	0		.50	1.2	6.0	.32	14	9.5	0	
25	0	0	0		.50	1.6	5.0	50	12	10	0	
26	0	0	0		.30	1.8	5.0	105	11	28	0	
27	0	0	0		.18	1.6	5.0	48	12	4.5	0	
28	0	0	0		.05	2.2	4.0	5.1	11	1.6	0	
29	0	0	0		------	1.7	4.0	42	10	3.0	0	
30	0	0	0		------	1.3	4.0	61	9.6	.56	0	
31	0	------	0		------	1.4	------	30	------	.61	0	------
TOTAL	105.82	1.40	.97	0	12.73	50.34	160.8	390.25	2,122.5	176.17	251.43	0
MEAN	3.41	.047	.031	0	.45	1.62	5.36	12.6	70.8	5.68	8.11	0
MAX	48	.85	.90	0	3.0	7.0	10	105	492	28	108	0
MIN	0	0	0	0	0	.18	1.3	.32	3.1	.32	0	0
AC-FT	210	2.8	1.9	0	25	100	319	774	4,210	349	499	0

CAL YR 1973 TOTAL 1,664.01 MEAN 4.56 MAX 355 MIN 0 AC-FT 3,300
WTR YR 1974 TOTAL 3,272.41 MEAN 8.97 MAX 492 MIN 0 AC-FT 6,490

PEAK DISCHARGE (BASE, 300 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
06-09	2000	7.97	546	08-09	0200	7.65	310
06-13	0600	7.65	310				

06847000 Beaver Creek near Beaver City, Nebr.

LOCATION.--Lat 40°07'12", long 99°53'35", in SW1/4SW1/4 sec.23, T.2 N., R.23 W., Furnas County, 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.

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.

AVERAGE DISCHARGE.--38 years, 28.4 ft³/s (0.804 m³/s), 20,580 acre-ft/yr (25.4 hm³/yr); median of yearly mean discharges, 20 ft³/s (0.566 m³/s), 14,500 acre-ft/yr (17.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 189 ft³/s (5.35 m³/s) June 14, 16, gage height, 5.29 ft (1.612 m); no flow July 29 to Aug. 5.
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.

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

REVISIONS (WATER YEARS).--WSP 1340: 1937-38(M), 1939, 1940-41(M), 1943(M). WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.25	.58	.40	.85	.85	1.0	.92	.46	2.8	0	.07
2	.16	.27	.63	.30	.92	.85	1.0	1.0	.46	2.7	0	.08
3	.13	.27	.63	.20	1.0	.85	1.2	.92	.52	1.8	0	.09
4	.13	.30	.58	.20	1.0	.74	1.2	1.0	1.7	1.5	0	.10
5	.13	.30	.58	.20	1.0	.79	1.2	1.0	1.5	1.4	0	.08
6	.11	.30	.52	.20	.85	.74	1.1	.92	6.7	1.1	.13	.20
7	.11	.35	.52	.20	.92	.74	1.1	.92	4.9	.85	.16	.06
8	.11	.35	.58	.20	.85	.85	1.1	.85	4.9	.79	.25	.07
9	.13	.35	.68	.20	.92	.79	1.2	.92	11	.68	.30	.06
10	.18	.35	.58	.20	1.0	.79	1.2	1.1	11	.74	.26	.06
11	.30	.40	.58	.20	1.0	1.0	1.2	1.0	16	.40	.15	.05
12	.25	.40	.63	.20	1.2	.85	1.1	.85	52	.35	9.6	.12
13	.22	.40	.68	.23	1.2	.85	1.5	.85	154	.22	37	.14
14	.18	.40	.63	.26	1.1	.85	1.3	.74	148	.27	13	.14
15	.16	.46	.63	.40	1.1	.85	1.1	.68	146	.35	3.4	.11
16	.16	.46	.58	.70	1.1	.85	1.1	.79	187	.30	1.1	.11
17	.16	.46	.58	.86	1.1	.85	1.1	.79	152	.27	.43	.08
18	.16	.46	.55	1.2	1.1	.92	1.0	.79	85	.30	.26	.06
19	.20	.63	.50	1.2	1.1	1.0	1.1	.85	57	.18	.22	.05
20	.18	.92	.50	1.2	1.1	1.0	1.2	.74	42	.16	.15	.06
21	.16	.68	.54	1.1	1.0	.92	1.1	.68	33	.13	.15	.11
22	.57	.57	.56	.92	.85	.92	1.1	.63	26	.16	.16	.02
23	.54	.54	.58	.92	.92	.92	1.0	.63	19	.11	.14	.15
24	.20	.63	.61	.85	.85	.92	1.2	.58	16	.20	.13	.06
25	.22	.58	.65	.85	.92	1.0	1.1	.63	13	.27	.12	.08
26	.25	.68	.68	1.0	1.0	1.0	1.2	.68	11	.08	.09	.06
27	.27	.68	.68	.92	.92	.92	1.1	.58	10	.06	.10	.08
28	.30	.63	.68	.92	.85	.92	.92	.46	5.9	.03	.10	.06
29	.27	.63	.68	.92	------	1.1	.92	.46	4.2	0	.10	.07
30	.30	.63	.60	.92	------	.85	1.0	.46	4.2	0	.11	.06
31	.27	------	.50	.85	------	1.0	------	.46	------	0	.09	------
TOTAL	6.69	14.33	18.50	18.92	27.72	27.48	33.64	23.88	1,224.44	18.20	67.70	2.54
MEAN	.22	.48	.60	.61	.99	.89	1.12	.77	40.8	.59	2.18	.085
MAX	.57	.92	.68	1.2	1.2	1.1	1.5	1.1	187	2.8	37	.20
MIN	.11	.25	.50	.20	.85	.74	.92	.46	.46	0	0	.02
AC-FT	13	28	37	38	55	55	67	47	2,430	36	134	5.0

CAL YR 1973 TOTAL 624.02 MEAN 1.71 MAX 65 MIN 0 AC-FT 1,240
WTR YR 1974 TOTAL 1,484.04 MEAN 4.07 MAX 187 MIN 0 AC-FT 2,940

PEAK DISCHARGE (BASE, 400 FT³/S).--No peak above base.

06847500 Sappa Creek near Stamford, Nebr.

LOCATION.--Lat 40°07'53", long 99°33'15", in NW1/4NW1/4 sec.23, T.2 N., R.20 W., Harlan County, 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 WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 1,981.31 ft (603.903 m) above mean sea level.

AVERAGE DISCHARGE.--29 years, 72.0 ft³/s (2.039 m³/s), 52,160 acre-ft/yr (64.3 hm³/yr); median of yearly mean discharges, 48 ft³/s (1.359 m³/s), 34,800 acre-ft/yr (42.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 217 ft³/s (6.15 m³/s) June 14, gage height, 6.49 ft (1.978 m); no flow for many days.
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.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow affected by irrigation development above station.

REVISIONS (WATER YEARS).--WSP 1919: 1960. WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	.64	5.3	3.4	17	15	12	14	4.4	2.4	0	
2	16	.65	5.1	3.4	18	15	12	13	3.9	1.8	0	
3	5.8	.38	5.1	3.2	17	14	15	12	5.5	.90	0	
4	9.2	.40	5.0	3.0	16	13	15	13	7.8	.24	0	
5	9.8	.43	4.8	3.0	16	12	15	11	8.4	.18	0	
6	17	.56	4.5	2.8	12	13	14	11	11	.16	0	
7	11	.79	4.5	2.8	10	12	14	12	12	.13	0	
8	4.7	1.4	4.9	3.0	9.5	13	14	10	28	.08	0	
9	40	1.1	5.3	3.1	9.7	10	16	10	69	.06	14	
10	34	1.1	5.3	3.2	10	10	15	11	73	.05	.02	
11	51	1.1	5.5	3.3	10	11	19	14	44	.02	0	
12	29	1.3	5.8	3.6	11	12	21	12	43	.09	0	
13	19	1.9	6.0	3.7	12	11	20	12	40	.07	0	
14	6.0	1.8	6.5	4.2	13	12	20	12	173	.01	0	
15	2.7	1.8	6.5	4.4	14	13	18	14	179	0	0	
16	2.0	1.8	6.5	5.3	15	13	19	13	131	0	.93	
17	1.4	2.4	6.5	5.6	14	13	20	11	138	0	.12	
18	.66	2.2	6.2	6.2	12	15	20	14	130	.01	0	
19	.50	4.7	5.9	6.9	10	13	20	14	110	0	0	
20	.38	9.3	5.5	8.3	10	13	22	17	89	0	0	
21	.34	7.3	5.0	9.0	11	13	20	15	69	0	0	
22	.23	6.5	4.5	9.5	12	13	18	11	51	0	0	
23	.18	6.0	4.0	10	13	12	18	9.8	36	0	0	
24	.28	5.5	4.0	10	14	13	19	8.9	30	0	0	
25	.35	5.0	3.9	11	15	13	19	7.8	23	0	0	
26	.47	4.5	3.9	12	17	13	17	7.2	15	0	0	
27	.59	4.5	3.9	13	19	13	14	6.9	9.0	0	0	
28	.50	4.7	3.8	14	15	13	14	6.6	6.5	0	0	
29	.52	4.9	3.7	15	------	13	12	6.7	6.1	0	0	
30	.50	5.5	3.6	16	------	13	13	6.6	3.4	0	0	
31	.61	------	3.6	16	------	13	------	5.9	------	0	0	------
TOTAL	272.01	90.15	154.6	217.9	372.2	395	505	342.4	1,549.0	6.20	15.07	0
MEAN	8.77	3.01	4.99	7.03	13.3	12.7	16.8	11.0	51.6	.20	.49	0
MAX	51	9.3	6.5	16	19	15	22	17	179	2.4	14	0
MIN	.18	.38	3.6	2.8	9.5	10	12	5.9	3.4	0	0	0
AC-FT	540	179	307	432	738	783	1,000	679	3,070	12	30	0

CAL YR 1973 TOTAL 4,299.43 MEAN 11.8 MAX 471 MIN 0 AC-FT 8,530
WTR YR 1974 TOTAL 3,919.53 MEAN 10.7 MAX 179 MIN 0 AC-FT 7,770

PEAK DISCHARGE (BASE, 1,000 FT³/S).--No peak above base.

06848500 Prairie Dog Creek near Woodruff, Kans.

LOCATION.--Lat 39°59'09", long 99°28'39", in NW1/4NW1/4 sec.9, T.1 S., R.19 W., Phillips County, 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.

AVERAGE DISCHARGE.--34 years, 42.1 ft³/s (1.192 m³/s), 30,500 acre-ft/yr (37.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 207 ft³/s (5.86 m³/s) Oct. 11, gage height, 5.71 ft (1.740 m); minimum, 0.10 ft³/s (0.003 m³/s) Aug. 12.
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, 1971-72.

REMARKS.--Records good. Flow regulated to some extent since 1964 by Norton Reservoir 48.4 mi (77.9 km) upstream (see sta 06847950) and by irrigation development above station. Records of chemical analyses for the water year 1974 are published in Part 2 of WRD Kans.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	11	6.1	10	12	8.1	5.7	5.7	4.2	.43	.24	.22
2	20	11	6.0	10	12	9.1	5.4	5.7	4.2	1.5	.12	.30
3	10	11	7.9	9.3	10	9.4	6.3	5.7	4.1	2.3	.12	.31
4	6.1	10	8.0	9.5	8.9	8.6	7.5	6.1	4.2	1.3	.11	.25
5	4.4	9.9	6.6	9.7	7.9	8.2	7.9	6.1	4.6	2.8	.63	.20
6	3.7	9.7	8.1	9.7	8.3	8.2	8.4	5.7	4.7	3.5	.15	.49
7	3.5	11	6.8	9.7	3.5	8.5	9.4	5.5	4.5	4.6	.11	.37
8	3.9	11	9.5	10	7.1	8.2	7.9	5.4	9.8	4.1	.13	.22
9	5.6	10	8.2	11	7.7	7.9	8.5	5.3	31	5.2	.78	.19
10	23	11	6.6	10	7.9	7.3	8.0	5.4	24	1.7	1.8	.18
11	133	10	7.0	11	8.3	6.2	9.0	5.4	22	3.2	.12	.24
12	119	9.9	7.8	11	8.1	6.1	8.9	6.0	24	1.7	.10	.25
13	71	10	7.5	11	8.1	6.3	12	6.0	11	.53	.11	.20
14	26	11	7.3	11	7.3	6.5	18	5.6	6.1	1.3	.12	.28
15	11	10	7.2	12	7.1	6.5	15	5.5	5.3	2.6	.14	.31
16	7.2	10	7.6	12	7.7	6.2	16	5.1	4.3	2.5	.15	.31
17	5.8	10	6.0	12	6.9	6.3	15	4.9	4.3	3.1	.15	.27
18	4.8	10	7.0	13	6.9	6.3	12	9.2	4.5	1.9	.15	.29
19	4.3	9.5	7.7	14	7.5	6.3	9.4	11	4.2	3.6	.18	.20
20	4.2	14	5.3	21	7.3	6.5	9.5	12	2.3	4.8	.16	.17
21	5.4	15	8.7	27	8.1	6.4	9.2	12	1.6	.92	.18	.28
22	6.3	12	9.9	40	9.3	6.4	8.0	6.9	.63	.63	.20	.51
23	7.4	13	8.3	56	9.5	6.5	7.0	5.2	.19	.61	.19	.51
24	7.8	12	10	42	7.7	6.4	6.4	4.5	.66	1.0	.19	.60
25	9.1	9.4	11	22	7.3	6.4	6.0	4.4	1.3	1.7	.18	.55
26	9.4	8.9	10	18	7.5	6.6	6.1	4.4	.84	.12	.18	.64
27	9.9	7.6	12	18	9.3	6.6	6.1	4.3	.48	.11	.18	.50
28	11	6.4	13	19	7.7	6.4	6.2	4.3	.63	.11	.23	.37
29	10	7.0	11	17	------	6.0	6.3	4.4	.34	.11	.22	.42
30	10	7.5	11	15	------	6.2	5.9	4.3	.19	.11	.26	.50
31	10	------	11	14	------	6.0	------	4.2	------	.11	.22	------
TOTAL	607.8	308.8	260.1	514.9	226.9	216.6	267.0	186.2	190.16	58.19	7.80	10.13
MEAN	19.6	10.3	8.39	16.6	8.10	6.99	8.90	6.01	6.34	1.88	.25	.34
MAX	133	15	13	56	12	9.4	18	12	31	5.2	1.8	.64
MIN	3.5	6.4	5.3	9.3	3.5	6.0	5.4	4.2	.19	.11	.10	.17
AC-FT	1,210	613	516	1,020	450	430	530	369	377	115	15	20

CAL YR 1973 TOTAL 3,498.85 MEAN 9.59 MAX 315 MIN .04 AC-FT 6,940
WTR YR 1974 TOTAL 2,854.58 MEAN 7.82 MAX 133 MIN .10 AC-FT 5,660

PEAK DISCHARGE (REGULATED) ABOVE 400 FT³/S.--No peak above base.

06849000 Harlan County Lake near Republican City, Nebr.

LOCATION.--Lat 40°04'10", long 99°12'30", in sec.11, T.1 N., R.17 W., Harlan County, 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.

EXTREMES.--Current year: Maximum contents, 370,600 acre-ft (0.457 km³) June 19,20, elevation, 1,948.05 ft (593.766 m); minimum, 250,000 acre-ft (0.308 km³) Sept. 29,30, elevation, 1,938.13 ft (590.742 m).
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).

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 (574.55 m), sill of outlet gates, and 1,946.0 ft (593.14 m), top of storage pool. Top of flood-control pool at elevation 1,973.5 ft (601.52 m), capacity, 840,600 acre-ft (1.04 km³). Top of superstorage flood-control pool at elevation 1,975.5 ft (602.13 m), capacity, 887,400 acre-ft (1.09 km³). Dead storage, 929 acre-ft (1.15 hm³). Figures given herein represent total contents. Water used for irrigation in the Bostwick irrigation project.

COOPERATION.--Capacity table furnished by Corps of Engineers.

Capacity table (elevation, in feet, and usuable contents, in acre-feet)

1,935	217,600	1,945	329,600
1,940	270,200	1,950	398,900

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298,700	318,400	331,800	346,300	359,300	351,400	345,900	352,600	348,000	354,500	278,300	251,300
2	300,100	318,500	332,700	347,000	359,000	351,400	345,900	352,600	348,000	352,700	275,800	251,300
3	300,600	318,500	333,200	347,200	358,900	351,300	347,800	351,900	348,200	350,800	273,400	251,300
4	301,100	318,600	334,300	347,600	358,900	351,300	347,800	351,500	348,400	348,600	270,700	251,100
5	301,700	318,900	334,700	348,000	358,900	351,100	347,900	351,100	348,800	345,900	269,400	251,000
6	302,400	319,500	334,700	348,400	358,300	350,800	348,300	350,000	349,100	343,400	266,600	251,400
7	302,900	319,900	335,100	348,800	358,100	350,400	348,700	349,200	349,200	340,900	264,800	251,600
8	303,400	320,100	335,800	349,200	357,500	350,200	348,800	348,000	352,900	338,100	264,400	251,600
9	305,400	320,200	336,000	349,500	356,800	349,900	348,800	347,400	354,400	335,500	264,100	251,600
10	307,800	320,900	336,500	349,900	356,600	350,000	349,400	347,600	357,100	333,000	263,400	251,600
11	309,500	321,200	336,800	350,400	356,400	350,200	350,400	346,700	360,800	330,700	263,200	251,600
12	310,200	321,600	337,600	350,700	356,300	349,900	350,400	344,800	363,300	328,300	262,800	251,500
13	311,000	322,000	337,700	351,100	356,100	349,800	352,200	345,200	365,100	325,600	262,300	251,400
14	311,800	322,700	338,500	351,400	356,000	349,800	352,300	345,200	366,400	323,200	261,500	251,300
15	312,200	322,700	339,000	351,800	355,600	349,500	352,700	345,100	367,600	320,700	261,100	251,300
16	312,600	323,100	339,300	352,100	355,200	349,100	353,000	345,500	368,300	318,000	260,700	251,300
17	312,900	323,600	339,800	352,700	355,100	349,100	353,300	345,900	369,200	315,300	260,300	251,400
18	313,600	323,700	340,600	353,300	354,800	348,700	353,700	346,700	370,000	312,700	259,800	251,400
19	313,900	325,800	340,900	353,700	354,200	348,700	354,200	347,100	370,600	310,100	259,200	251,300
20	314,400	327,200	340,900	354,200	354,100	348,600	355,500	347,200	370,400	307,300	258,400	251,400
21	314,800	327,300	341,000	354,900	353,800	348,400	356,000	347,500	369,900	304,900	257,900	251,300
22	315,100	327,500	341,300	355,500	353,000	348,000	355,900	347,600	369,000	302,600	257,200	251,300
23	315,600	327,900	341,900	356,100	353,000	347,600	355,500	347,500	367,900	299,700	256,700	250,800
24	316,000	328,300	342,800	357,000	352,500	347,400	355,200	348,000	366,800	297,200	255,800	250,800
25	316,000	328,700	343,200	357,800	352,100	347,200	354,800	348,300	365,200	294,700	255,300	250,700
26	316,500	329,400	343,900	358,700	351,900	347,000	354,500	348,300	363,600	292,400	254,800	250,700
27	316,700	330,200	344,300	359,600	351,800	347,000	354,400	348,400	361,600	289,600	254,100	250,700
28	317,000	330,600	344,600	359,800	351,400	346,800	354,500	348,300	360,000	287,200	253,500	250,200
29	317,100	331,000	344,800	359,700	------	346,400	354,000	348,300	358,200	284,900	252,800	250,000
30	317,700	331,400	345,400	359,700	------	346,000	353,400	348,400	356,600	282,200	252,200	250,000
31	318,100	------	345,900	359,700	------	346,000	------	348,200	------	280,400	251,500	------
MAX	318,100	331,400	345,900	359,800	359,300	351,400	356,000	352,600	370,600	354,500	278,300	251,600
MIN	298,700	318,400	331,800	346,300	351,400	346,000	345,900	344,800	348,000	280,400	251,500	250,000
(†)	+20,400	+13,300	+14,500	+13,800	-8,300	-5,400	+7,400	-5,200	+8,400	-76,200	-28,900	-1,500
(‡)	1,944.09	1,945.14	1,946.25	1,947.27	1,946.66	1,946.26	1,946.81	1,946.42	1,947.04	1,940.91	1,938.27	1,938.13

CAL YR 1973 MAX 354,100 MIN 274,000 † +72,300
WTR YR 1974 MAX 370,600 MIN 250,000 † -47,700

†Change in contents, in acre-feet.
‡Elevation, in feet, at end of month.

06849500 Republican River below Harlan County Dam, Nebr.

LOCATION.--Lat 40°04'45", long 99°10'05", in SW1/4 sec.6, T.1 N., R.16 W., Franklin County, 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).

AVERAGE DISCHARGE.--21 years (1953-74), 314 ft³/s (8.892 m³/s), 227,500 acre-ft/yr (0.281 km³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 996 ft³/s (28.2 m³/s) July 7, gage height, 3.90 ft (1.189 m); minimum daily, 6.7 ft³/s (0.19 m³/s) Sept. 24-26.
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.
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.

REMARKS.--Records poor. Flow completely regulated by Harlan County Lake (see preceding page) and partially regulated by six upstream reservoirs. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	14	12	11	549	549	405	625	58	630	924	39
2	23	12	12	11	549	549	301	630	61	645	924	37
3	18	12	12	11	544	544	313	646	70	682	892	28
4	16	13	11	12	539	539	305	656	59	820	870	13
5	15	13	13	12	544	539	305	651	69	870	836	13
6	16	13	13	13	544	544	309	662	69	892	754	12
7	16	12	11	13	539	539	305	662	69	980	625	11
8	16	12	15	14	539	534	305	646	69	974	595	11
9	32	13	14	14	534	534	305	651	69	968	489	9.4
10	49	13	16	14	539	529	309	651	69	968	472	16
11	81	13	18	14	539	514	309	662	67	985	250	7.9
12	44	13	17	14	539	519	301	699	64	974	200	8.6
13	18	13	15	14	405	519	305	321	66	958	197	8.6
14	13	13	15	15	549	514	305	84	64	941	187	8.6
15	12	13	16	15	554	514	309	81	62	924	167	7.9
16	12	13	16	16	549	509	305	79	62	914	161	7.9
17	12	13	16	16	549	509	305	79	61	914	155	7.9
18	12	13	14	18	554	509	305	99	61	924	150	7.9
19	12	11	12	16	559	504	309	99	90	941	147	7.3
20	13	10	11	16	554	504	309	75	239	948	147	7.3
21	13	14	13	15	544	499	305	70	257	958	142	7.3
22	13	16	14	15	549	499	301	61	325	963	140	7.3
23	13	16	14	15	544	499	456	66	325	958	140	7.3
24	11	14	13	16	539	489	646	69	414	974	140	6.7
25	14	14	13	15	544	494	651	72	535	980	140	6.7
26	12	14	13	17	544	494	656	72	600	968	140	6.7
27	14	13	13	18	544	494	656	69	610	963	140	7.3
28	13	12	13	181	544	494	662	66	615	963	140	7.3
29	14	13	12	519	------	489	646	66	625	963	140	7.3
30	14	11	11	534	------	494	646	62	630	936	137	7.3
31	14	------	11	534	------	489	------	55	------	924	81	------
TOTAL	597	389	419	2,158	15,123	15,949	11,849	9,486	6,434	28,402	10,622	340.5
MEAN	19.3	13.0	13.5	69.6	540	514	395	306	214	916	343	11.4
MAX	81	16	18	534	559	549	662	699	630	985	924	39
MIN	11	10	11	11	405	489	301	55	58	630	81	6.7
AC-FT	1,180	772	831	4,280	30,000	31,630	23,500	18,820	12,760	56,340	21,070	675

CAL YR 1973 TOTAL 52,898.8 MEAN 145 MAX 1,000 MIN 6.4 AC-FT 104,900
WTR YR 1974 TOTAL 101,768.5 MEAN 279 MAX 985 MIN 6.7 AC-FT 201,900

06851000 Center Creek at Franklin, Nebr.

LOCATION.--Lat 40°06'12", long 98°58'45", in NW1/4NE1/4 sec.35, T.2 N.,R.15 W., Franklin County, on right bank at downstream side of bridge on State Highway 136, 1 mi (2 km) northwest of Franklin and 3 mi (5 km) upstream from mouth.

DRAINAGE AREA (revised).--177 mi² (460 km²), approximately, of which about 56 mi² (150 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--April 1948 to September 1956. Annual maximums and occasional low-flow measurements, water years 1961-68. October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,858.34 ft (566.422 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Dec. 19, 1952, nonrecording gage at site 1.5 mi (2.4 km) downstream at datum 30.27 ft (9.226 m) lower and Dec. 19, 1952, to Sept. 30, 1956, at present site at datum 0.84 ft (0.256 m) higher. Sept. 7, 1961, to Sept. 30, 1968, crest-stage gage at present site and datum.

AVERAGE DISCHARGE.--14 years (1948-56, 1968-74), 6.85 ft³/s (0.194 m³/s), 4,960 acre-ft/yr (6.12 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 550 ft³/s (15.6 m³/s) Oct. 10, gage height, 4.50 ft (1.372 m); minimum daily, 2.8 ft³/s (0.079 m³/s) July 8.
Period of record: Maximum discharge, 3,150 ft³/s (89.2 m³/s) Sept. 20, 1950, gage height, 6.8 ft (2.07 m), from floodmark, site and datum then in use, from rating curve extended above 420 ft³/s (11.9 m³/s) on basis of slope-area measurement of peak flow; no flow at times during 1948-50.

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

REVISIONS (WATER YEARS).--WSP 2119: 1963(M), 1965(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	6.6	6.9	5.3	7.4	6.9	7.4	6.6	7.2	3.9	4.7	5.3
2	8.2	6.6	6.6	5.0	6.3	7.2	7.4	6.3	7.2	3.5	4.2	5.1
3	7.4	6.6	5.8	5.0	6.6	7.4	7.7	6.6	6.9	3.5	4.2	5.1
4	7.4	6.1	6.1	5.0	6.6	7.2	7.7	6.6	7.2	3.0	4.2	4.9
5	8.0	6.3	7.2	5.0	6.9	7.4	8.5	6.6	23	3.2	4.9	4.9
6	8.0	7.4	5.6	5.1	6.7	6.9	7.7	6.6	10	3.4	4.9	5.3
7	8.0	7.4	5.8	5.1	6.6	7.2	7.2	6.1	7.7	3.4	4.9	4.7
8	7.4	7.4	6.1	5.2	7.4	6.9	7.2	6.1	13	2.8	4.9	4.5
9	14	7.4	6.5	5.2	7.4	7.2	7.2	6.3	11	3.2	5.1	4.7
10	130	7.7	7.2	5.2	7.4	7.4	7.7	7.7	10	3.5	4.9	4.9
11	97	7.2	6.6	5.5	7.4	6.9	7.4	8.9	8.0	3.5	3.9	4.9
12	63	6.6	6.3	5.8	7.4	7.2	7.7	7.4	8.0	3.3	3.3	5.1
13	16	6.9	6.3	6.3	7.4	7.2	8.2	7.7	7.7	2.9	4.5	5.3
14	10	6.3	5.8	6.6	7.2	7.7	8.2	7.7	6.9	2.9	5.1	5.1
15	9.7	6.1	5.3	6.9	6.6	7.7	7.7	7.7	6.6	3.4	5.3	5.1
16	9.7	6.1	5.6	6.9	6.9	7.7	7.2	7.7	6.6	3.2	5.3	5.1
17	9.7	6.6	5.4	7.2	6.3	7.4	6.9	8.2	6.9	3.3	5.4	5.1
18	8.5	6.3	5.4	8.0	6.1	7.4	6.3	20	6.6	3.3	5.6	5.3
19	7.7	6.0	5.2	8.0	7.2	6.9	6.1	8.2	5.8	3.4	5.6	5.1
20	7.2	6.0	5.0	8.0	5.8	6.6	7.2	8.0	5.6	3.3	5.4	5.1
21	7.2	6.2	5.0	7.7	5.6	7.2	6.6	7.7	5.1	3.4	5.6	5.1
22	7.4	6.2	5.3	7.4	5.8	7.7	6.3	7.7	5.3	3.3	5.6	5.1
23	6.9	6.7	5.6	8.0	5.8	7.7	6.1	7.2	4.7	3.6	5.3	5.1
24	6.9	7.4	6.0	7.2	5.8	8.0	6.1	7.2	4.9	3.8	5.1	5.1
25	6.9	7.2	6.6	6.6	6.9	8.0	5.8	7.2	4.0	3.5	4.9	5.1
26	7.2	7.4	7.4	7.7	6.3	7.7	5.4	6.6	3.8	3.4	5.3	5.1
27	6.6	7.4	7.4	7.2	6.6	8.0	5.8	6.3	4.0	3.6	5.1	4.9
28	6.6	7.4	6.9	7.2	7.2	7.7	7.7	6.3	3.6	3.5	4.4	4.7
29	6.6	7.2	6.3	7.2	------	6.9	6.9	6.3	3.8	3.8	4.5	4.7
30	6.6	7.2	6.0	7.7	------	7.2	6.9	6.6	3.9	3.9	5.1	5.1
31	6.6	------	5.6	7.4	------	6.9	------	6.9	------	3.8	4.9	------
TOTAL	522.1	203.9	188.8	201.6	187.6	227.4	212.2	233.0	215.0	105.5	152.1	150.6
MEAN	16.8	6.80	6.09	6.50	6.70	7.34	7.07	7.52	7.17	3.40	4.91	5.02
MAX	130	7.7	7.4	8.0	7.4	8.0	8.5	20	23	3.9	5.6	5.3
MIN	6.6	6.0	5.0	5.0	5.6	6.6	5.4	6.1	3.6	2.8	3.3	4.5
AC-FT	1,040	404	374	400	372	451	421	462	426	209	302	299

CAL YR 1973 TOTAL 2,976.4 MEAN 8.15 MAX 148 MIN 3.9 AC-FT 5,900
WTR YR 1974 TOTAL 2,599.8 MEAN 7.12 MAX 130 MIN 2.8 AC-FT 5,160

PEAK DISCHARGE (BASE, 35 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10- 9	2000	3.19	88	5-18	0430	3.55	195
10-10	1130	4.50	550	6- 5	2000	3.65	217

06851500 Thompson Creek at Riverton, Nebr.

LOCATION.--Lat 40°05'21", long 98°45'38", in NW1/4NW1/4 sec.2, T.1 N., R.13 W., Franklin County, on left bank 8 ft (2 m) downstream from bridge on State Highway 136 at west edge of Riverton, 240 ft (73 m) upstream from Burlington Northern Inc. bridge, and 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--279 mi² (723 km²), of which about 190 mi² (492 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--April 1948 to September 1956. Annual maximums, water years 1962-68 and occasional low-flow measurements, water years 1961-68. October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,753.38 ft (534.430 m) above mean sea level. Apr. 1 to Oct. 1, 1948, nonrecording gage 240 ft (73 m) downstream at datum 2.32 ft (0.707 m) higher. Oct. 1, 1948, to July 11, 1950, water-stage recorder at present site at datum 1.32 ft (0.402 m) higher and July 12, 1950, to Sept. 30, 1956, at present site and datum. Sept. 7, 1961, to Sept. 30, 1968, crest-stage gage at present site and datum.

AVERAGE DISCHARGE.--14 years (1948-56, 1968-74), 29.6 ft³/s (0.838 m³/s), 21,450 acre-ft/yr (26.4 hm³/yr); median of yearly mean discharges, 26 ft³/s (0.736 m³/s), 18,800 acre-ft/yr (23.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 619 ft³/s (17.5 m³/s) June 6, gage height, 5.53 ft (1.686 m); minimum daily, 17 ft³/s (0.48 m³/s) July 26-28, Aug. 2,3.
Period of record: Maximum discharge, 12,200 ft³/s (346 m³/s) July 9, 1950, gage height, 13.22 ft (4.029 m), present datum, by slope-area measurement; minimum daily, 8.1 ft³/s (0.23 m³/s) Dec. 19, 1951.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by irrigation development above station.

REVISIONS.--WRD Nebr. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	23	25	23	26	24	24	24	20	20	18	23
2	29	22	25	22	26	24	24	24	20	19	17	24
3	25	23	24	21	26	24	25	23	20	19	17	26
4	23	23	25	20	25	24	25	23	20	19	18	23
5	21	23	25	20	25	24	25	23	42	19	19	23
6	20	24	24	21	25	25	25	22	211	20	19	23
7	20	24	25	22	25	25	25	22	34	20	18	22
8	20	24	25	24	25	25	25	22	28	19	19	21
9	20	24	26	26	25	25	25	23	49	19	20	21
10	68	24	25	23	25	25	25	24	30	19	19	21
11	227	24	25	24	26	26	26	24	25	19	19	21
12	245	24	25	25	26	26	25	21	24	20	18	21
13	80	24	25	25	26	25	26	22	24	19	21	20
14	41	23	25	24	26	25	26	22	23	20	35	20
15	32	24	24	24	26	25	24	22	23	19	20	19
16	27	23	24	25	25	25	24	22	22	18	20	19
17	25	24	24	24	26	24	24	22	23	19	20	18
18	24	24	24	25	25	24	24	25	22	18	20	18
19	24	23	23	26	25	24	24	22	22	19	19	18
20	24	24	23	26	25	24	25	21	21	19	18	18
21	24	25	24	27	24	24	24	21	21	18	19	19
22	23	26	24	27	24	24	24	21	21	19	19	18
23	23	26	24	26	24	24	23	21	21	19	20	18
24	23	26	24	26	24	24	23	21	21	20	21	18
25	23	25	24	26	24	24	23	25	21	19	21	18
26	23	25	24	28	24	24	23	22	21	17	21	18
27	24	24	23	28	24	24	23	21	21	17	22	18
28	24	24	23	27	24	24	31	21	20	17	22	18
29	24	24	23	27	------	24	24	21	20	18	22	18
30	24	25	23	27	------	24	23	20	21	18	22	18
31	23	------	23	26	------	24	------	20	------	18	23	------
TOTAL	1,292	721	750	765	701	757	737	687	911	583	626	600
MEAN	41.7	24.0	24.2	24.7	25.0	24.4	24.6	22.2	30.4	18.8	20.2	20.0
MAX	245	26	26	28	26	26	31	25	211	20	35	26
MIN	20	22	23	20	24	24	23	20	20	17	17	18
AC-FT	2,560	1,430	1,490	1,520	1,390	1,500	1,460	1,360	1,810	1,160	1,240	1,190

CAL YR 1973 TOTAL 9,885 MEAN 27.1 MAX 514 MIN 15 AC-FT 19,610
WTR YR 1974 TOTAL 9,130 MEAN 25.0 MAX 245 MIN 17 AC-FT 18,110

PEAK DISCHARGE (BASE, 280 FT³/S).--Oct. 11 (2045) 602 ft³/s (5.50 ft); June 6 (0200) 619 ft³/s (5.53 ft).

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, Nebr., 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, Nebr.

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.

AVERAGE DISCHARGE.--20 years, 73.0 ft³/s (2.067 m³/s), 52,890 acre-ft/yr (65.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 678 ft³/s (19.2 m³/s) July 27, gage height, 4.63 ft (1.411 m); no flow for many days.
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.

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2							0	39	443	669	90
2	7.0							20	39	454	671	94
3	6.7							81	40	442	673	90
4	5.5							29	34	420	675	90
5	1.9							30	35	442	673	101
6	0							43	40	492	673	100
7	0							58	40	506	667	96
8	0							55	41	559	645	92
9	.49							52	44	620	550	105
10	33							44	58	647	444	81
11	24							41	75	660	400	58
12	4.4							39	72	660	325	77
13	0							41	73	660	227	69
14	0							39	71	660	122	67
15	0							38	69	662	86	67
16	0							39	69	667	86	66
17	0							38	69	662	68	39
18	0							40	88	660	67	30
19	0							38	112	658	67	66
20	0							38	112	664	66	69
21	0							39	107	664	108	63
22	0							37	152	667	139	60
23	0							30	185	671	186	46
24	0							36	217	656	226	33
25	0							39	253	675	226	21
26	0							40	298	673	150	2.9
27	0							39	367	673	95	0
28	0							40	402	673	91	0
29	0				------			39	406	673	90	0
30	0				------			39	410	673	91	0
31	0	------			------		------	38	------	671	89	------
TOTAL	92.19	0	0	0	0	0	0	1,219	4,017	19,007	9,345	1,772.9
MEAN	2.97	0	0	0	0	0	0	39.3	134	613	301	59.1
MAX	33	0	0	0	0	0	0	81	410	675	675	105
MIN	0	0	0	0	0	0	0	0	34	420	66	0
AC-FT	183	0	0	0	0	0	0	2,420	7,970	37,700	18,540	3,520

CAL YR 1973 TOTAL 21,731.69 MEAN 59.5 MAX 554 MIN 0 AC-FT 43,100
WTR YR 1974 TOTAL 35,453.09 MEAN 97.1 MAX 675 MIN 0 AC-FT 70,320

06853000 Republican River near Guide Rock, Nebr.

LOCATION.--Lat 40°04'05", long 98°22'25", in SW1/4NE1/4 sec.7, T.1 N., R.9 W., Webster County, 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.

PERIOD OF RECORD.--August 1950 to current year.

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.

AVERAGE DISCHARGE.--24 years, 400 ft³/s (11.33 m³/s), 289,800 acre-ft/yr (0.357 km³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 4,090 ft³/s (116 m³/s) Oct. 11, gage height, 13.99 ft (4.264 m); minimum daily, 18 ft³/s (0.51 m³/s) July 18.
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.
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.

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. (See sta 06849000.) Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	526	213	208	150	774	656	656	731	112	60	48	158
2	393	210	212	130	758	667	652	669	111	29	68	108
3	359	202	209	135	753	670	505	790	105	22	55	63
4	336	196	214	135	747	657	489	839	104	20	62	50
5	313	192	209	140	751	646	476	828	107	58	50	37
6	308	188	196	140	732	643	477	735	200	34	115	27
7	308	192	193	145	713	638	477	706	399	27	59	25
8	303	190	210	145	714	652	464	726	200	66	92	22
9	307	190	208	148	713	650	451	755	244	34	212	22
10	1,970	191	195	150	716	659	449	787	733	54	257	21
11	3,360	190	202	150	726	679	495	852	398	33	217	27
12	2,500	190	208	150	727	682	482	804	244	27	99	30
13	966	193	206	160	726	678	484	756	189	26	115	31
14	576	195	212	190	668	680	554	670	176	26	404	30
15	454	195	205	220	658	680	525	284	147	29	365	29
16	392	190	196	260	699	680	513	208	111	22	398	60
17	354	190	206	260	695	678	505	182	97	19	311	66
18	326	190	200	300	698	684	501	182	50	18	266	26
19	312	195	165	300	689	685	501	235	22	19	263	24
20	292	287	160	310	683	678	521	201	74	29	221	24
21	280	315	180	313	670	669	532	180	60	29	150	29
22	277	272	210	323	665	666	519	175	69	37	131	29
23	269	255	210	320	659	661	519	160	80	44	91	58
24	258	238	200	303	640	660	534	147	78	43	44	85
25	242	230	200	313	640	658	822	168	39	52	46	79
26	236	232	200	347	662	656	837	196	56	69	128	85
27	233	230	200	384	665	652	857	149	43	55	169	73
28	221	221	190	369	665	651	854	130	26	38	167	71
29	218	216	190	344	------	640	841	129	24	45	160	72
30	216	213	180	599	------	640	861	126	27	58	156	73
31	215	------	170	785	------	650	------	117	------	51	163	------
TOTAL	17,320	6,401	6,144	8,118	19,606	20,545	17,353	13,617	4,325	1,173	5,082	1,534
MEAN	559	213	198	262	700	663	578	439	144	37.8	164	51.1
MAX	3,360	315	214	785	774	685	861	852	733	69	404	158
MIN	215	188	160	130	640	638	449	117	22	18	44	21
AC-FT	34,350	12,700	12,190	16,100	38,890	40,750	34,420	27,010	8,580	2,330	10,080	3,040

CAL YR 1973 TOTAL 99,836 MEAN 274 MAX 4,640 MIN 27 AC-FT 198,000
WTR YR 1974 TOTAL 121,218 MEAN 332 MAX 3,360 MIN 18 AC-FT 240,400

06853500 Republican River near Hardy, Nebr.

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, 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.

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.

AVERAGE DISCHARGE.--43 years (1913-14, 1932-74), 634 ft³/s (17.95 m³/s), 459,300 acre-ft/yr (0.566 km³/yr).

EXTREMES.--Current year: Maximum discharge, 8,640 ft³/s (245 m³/s) Oct. 11, gage height, 12.52 ft (3.815 m, minimum, 40 ft³/s (1.13 m³/s) Sept. 22.
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.
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.

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. (See sta 06849000.)

REVISIONS (WATER YEARS).--WSP 806: Drainage area. WSP 1006: 1941. WSP 1340: 1905(M), 1907-9, 1912, 1914-15, 1931. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,330	363	366	220	908	755	696	837	176	76	91	172
2	982	352	356	210	830	750	693	805	168	95	93	178
3	760	342	349	210	785	750	674	839	163	80	109	154
4	632	335	363	210	765	750	571	847	157	60	115	110
5	552	328	349	220	780	750	556	845	147	58	121	94
6	496	324	335	230	770	745	538	828	159	73	136	84
7	464	332	321	230	745	740	538	810	217	83	148	71
8	433	328	321	240	740	740	534	809	359	66	167	60
9	416	321	335	240	750	745	530	837	256	96	188	52
10	4,650	314	324	240	750	735	522	846	297	81	222	49
11	8,270	318	321	240	760	735	543	945	588	73	266	45
12	6,670	321	324	240	780	740	563	941	408	67	250	45
13	2,850	324	332	250	805	735	545	860	328	55	192	49
14	1,530	324	342	250	815	725	601	783	261	55	222	51
15	1,140	318	328	270	735	725	624	667	241	59	325	51
16	906	304	300	290	760	710	585	377	212	56	420	47
17	770	293	282	310	790	710	566	299	183	52	404	56
18	675	290	280	340	810	710	565	278	167	50	335	95
19	612	324	250	350	810	710	570	268	147	47	294	56
20	568	1,910	230	380	810	710	632	290	103	45	278	44
21	528	870	250	400	790	710	653	280	81	53	244	41
22	496	645	300	450	775	710	618	245	69	69	199	41
23	472	528	320	430	770	700	590	233	117	72	162	41
24	452	476	310	430	755	705	577	222	129	76	145	45
25	433	440	300	500	745	705	605	214	143	98	107	80
26	416	419	300	720	755	710	791	221	98	89	92	95
27	408	405	300	805	770	710	824	242	95	98	121	94
28	398	388	290	650	770	710	830	218	92	94	188	91
29	384	377	290	568	------	705	850	205	84	80	177	91
30	377	370	280	636	------	694	830	197	73	75	176	89
31	370	------	250	950	------	694	------	188	------	89	167	------
TOTAL	39,440	12,983	9,598	11,709	21,828	22,423	18,814	16,476	5,718	2,220	6,154	2,271
MEAN	1,272	433	310	378	780	723	627	531	191	71.6	199	75.7
MAX	8,270	1,910	366	950	908	755	850	945	588	98	420	178
MIN	370	290	230	210	735	694	522	188	69	45	91	41
AC-FT	78,230	25,750	19,040	23,220	43,300	44,480	37,320	32,680	11,340	4,400	12,210	4,500

CAL YR 1973 TOTAL 183,259 MEAN 502 MAX 8,270 MIN 71 AC-FT 363,500
WTR YR 1974 TOTAL 169,634 MEAN 465 MAX 8,270 MIN 41 AC-FT 336,500

PEAK DISCHARGE (REGULATED, ABOVE 2,500 FT³/S).--October 11 (1100) 8,640 ft³/s (12.52 ft), November 20 (1100) 2,760 ft³/s (7.84 ft).

06879900 Big Blue River at Surprise, Nebr.

LOCATION.--Lat 41°06'05", long 97°18'35", in NW1/4NW1/4 sec.15, T.13 N., R.1 E., Butler County, 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.

AVERAGE DISCHARGE.--10 years, 30.5 ft³/s (0.864 m³/s), 22,100 acre-ft/yr (27.2 hm³/yr); median of yearly mean discharges, 23 ft³/s (0.651 m³/s), 16,700 acre-ft/yr (20.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 773 ft³/s (21.9 m³/s) May 19, gage height, 5.13 ft (1.564 m); no flow Sept. 26-30.
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.

REMARKS.--Records good above 5 ft³/s (0.14 m³/s) and poor below.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	1.1	3.2	1.1	.58	5.9	1.1	.44	1.9	2.4	2.3	.37
2	25	1.2	3.0	.89	.58	4.9	1.2	.44	1.2	3.7	2.4	.29
3	27	1.1	3.0	.89	.44	4.4	2.0	.22	1.6	3.5	1.7	.22
4	27	1.1	3.0	.73	.32	4.9	2.2	.32	1.6	2.2	.32	.22
5	25	.89	2.6	.73	.58	4.6	2.2	.22	1.3	2.1	1.7	.16
6	22	.89	2.6	.73	.73	4.6	3.0	.22	11	1.4	3.2	.15
7	22	.89	1.8	.73	.44	4.6	3.9	.22	58	1.7	3.0	.15
8	18	1.1	1.2	.73	.32	3.7	6.2	.32	67	2.0	2.7	.09
9	17	1.2	1.1	.73	.44	3.2	5.2	.89	32	2.5	3.4	.06
10	370	1.2	4.2	.73	.44	3.0	4.4	1.2	139	1.4	2.9	.07
11	560	.89	3.0	.73	.44	3.0	4.4	31	193	1.8	1.6	.08
12	449	.89	1.8	.73	.89	2.2	3.4	161	89	5.9	2.2	.84
13	255	1.2	1.2	.73	2.0	2.0	2.6	80	37	5.5	1.9	.41
14	181	1.8	1.6	.89	2.8	2.0	2.6	51	31	3.7	1.3	.25
15	145	.89	1.4	.89	3.0	2.2	2.4	39	19	3.2	.74	.15
16	81	.68	1.2	.89	4.2	2.0	2.0	23	11	3.3	.57	.15
17	44	.51	1.2	1.1	13	2.0	1.8	22	6.8	2.9	.81	.15
18	34	.50	1.4	1.4	26	2.0	1.8	388	5.2	3.4	1.4	.13
19	14	.97	1.6	1.4	34	2.2	1.6	659	3.7	4.0	.84	.11
20	8.9	46	1.2	1.4	28	2.4	2.2	494	2.8	4.2	.43	.06
21	9.7	110	.44	1.6	22	2.2	1.8	169	2.2	2.4	2.3	.06
22	8.9	65	.58	1.6	19	1.8	1.6	55	1.7	3.0	20	.04
23	7.8	31	.58	1.8	24	1.8	1.4	25	1.5	1.3	19	.04
24	5.1	26	.89	1.8	24	1.8	1.2	12	.72	1.7	3.4	.03
25	4.9	20	1.2	1.6	19	1.6	.89	6.8	.58	3.4	1.7	.01
26	4.6	18	1.2	1.6	15	1.2	.89	6.2	.89	4.7	1.3	0
27	4.2	12	1.2	1.6	9.7	1.4	.73	4.4	1.8	5.1	1.2	0
28	2.8	7.5	1.2	1.4	7.4	1.6	.89	3.0	1.4	4.1	.83	0
29	1.8	5.4	1.2	1.6	------	1.8	.89	2.4	2.2	2.8	.64	0
30	1.2	3.7	1.2	1.4	------	1.8	.58	2.5	1.8	3.3	.70	0
31	1.1	------	1.2	.73	------	1.4	------	2.6	------	1.7	.54	------
TOTAL	2,419.0	363.60	52.19	34.88	259.30	84.2	67.07	2,241.39	727.89	94.3	87.02	4.29
MEAN	78.0	12.1	1.68	1.13	9.26	2.72	2.24	72.3	24.3	3.04	2.81	.14
MAX	560	110	4.2	1.8	34	5.9	6.2	659	193	5.9	20	.84
MIN	1.1	.50	.44	.73	.32	1.2	.58	.22	.58	1.3	.32	0
AC-FT	4,800	721	104	69	514	167	133	4,450	1,440	187	173	8.5

CAL YR 1973 TOTAL 11,564.62 MEAN 31.7 MAX 1,400 MIN .15 AC-FT 22,940
WTR YR 1974 TOTAL 6,435.13 MEAN 17.6 MAX 659 MIN 0 AC-FT 12,760

PEAK DISCHARGE (BASE, 250 FT³/S).--Oct. 11 (0800) 671 ft³/s (4.84 ft); May 19 (0915) 773 ft³/s (5.13 ft).

06860000 Lincoln Creek near Seward, Nebr.

LOCATION.--Lat 40°54'57", long 97°08'43", in NW1/4NE1/4 sec.24, T.11 N., R.2 E., Seward County, 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).

PERIOD OF RECORD.--October 1953 to September 1973, March 1974 to current year. Monthly discharge only for some periods, published in WSP 1730.

GAGE.--Water-stage recorder. Datum of gage is 1,429.27 ft (435.641 m) above mean sea level.

AVERAGE DISCHARGE.--20 years, (1953-73) 45.9 ft³/s (1.300 m³/s), 33,250 acre-ft/yr (41.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge for period, 1,170 ft³/s (33.1 m³/s) May 22, gage height, 15.13 ft (4.612 m); minimum daily, 3.8 ft³/s (0.11 m³/s) Sept. 27.
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.

REMARKS.--Records good except those for winter period, which are poor. Small diversions for irrigation above station. Records of chemical analyses and water temperatures for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 2119: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							14	12	19	9.3	18	7.4
2							14	12	18	9.7	21	7.3
3							14	12	17	8.8	25	6.8
4							15	12	17	13	19	7.1
5							15	12	17	15	17	6.4
6							15	12	17	14	17	6.5
7							14	12	21	12	19	6.3
8							14	12	19	12	22	5.7
9							14	12	53	14	25	5.8
10							14	13	54	15	27	5.7
11							15	28	67	17	26	5.8
12							15	18	82	17	24	6.8
13							14	14	77	18	19	7.6
14							15	14	123	15	19	8.9
15							16	13	80	13	20	6.5
16							16	13	42	14	20	5.5
17							17	12	30	15	19	5.5
18							16	26	28	18	22	5.4
19							15	37	27	22	18	5.2
20							17	20	22	22	20	5.0
21						15	19	404	19	21	19	5.2
22					†91	16	16	700	17	22	17	5.0
23						16	14	154	15	21	15	5.2
24						16	14	40	14	21	14	4.1
25						15	14	25	13	19	14	5.4
26						15	14	108	13	19	13	5.5
27		†36				15	14	169	12	22	13	3.8
28						15	14	48	10	20	13	5.2
29				†26	------	15	14	28	9.9	18	9.3	5.4
30					------	14	12	29	9.8	17	8.9	4.9
31		------			------	14	------	24	------	18	7.9	------
TOTAL							444	2,045	962.7	511.8	561.1	176.9
MEAN							14.8	66.0	32.1	16.5	18.1	5.90
MAX							19	700	123	22	27	8.9
MIN							12	12	9.8	8.8	7.9	3.8
AC-FT							881	4,060	1,910	1,020	1,110	351

†Result of discharge measurement.

06880500 Big Blue River at Seward, Nebr.

LOCATION.--Lat 40°54'05", long 97°05'55", in NW1/4NW1/4 sec.28, T.11 N., R.3 E., Seward County, 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.

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.

AVERAGE DISCHARGE.--21 years, 114 ft³/s (3.228 m³/s), 82,590 acre-ft/yr (0.102 km³/yr).

EXTREMES.--Current year: Maximum discharge, 3,730 ft³/s (106 m³/s) May 22, gage height, 20.54 ft (6.261 m); minimum daily, 7.3 ft³/s (0.21 m³/s) Sept. 28.
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.

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.

REVISIONS.--WSP 1919: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	44	79	43	56	97	36	40	76	15	20	14
2	249	43	74	42	54	87	34	39	66	18	24	13
3	168	42	70	40	52	79	36	38	58	18	29	12
4	117	41	66	37	50	73	41	37	50	20	26	12
5	80	40	65	35	47	70	47	35	49	28	20	11
6	64	39	44	32	45	63	73	34	48	25	19	11
7	54	39	48	32	45	61	80	33	55	21	21	11
8	49	39	47	32	45	55	93	31	54	20	27	10
9	46	39	47	32	47	52	75	37	113	21	52	11
10	191	39	47	32	50	49	57	39	190	23	41	12
11	2,030	40	47	32	52	52	53	138	164	25	42	13
12	3,350	41	47	34	67	58	51	97	289	21	41	14
13	2,090	42	48	36	143	56	45	146	318	21	33	14
14	1,870	43	48	39	273	58	67	198	277	20	31	16
15	1,380	44	46	41	232	65	70	134	190	16	30	20
16	580	44	45	45	225	62	63	96	123	18	58	18
17	350	44	44	47	291	56	69	79	87	19	58	16
18	217	43	42	50	693	59	58	178	69	20	46	15
19	144	44	40	49	696	55	55	708	63	24	31	14
20	112	202	38	49	540	53	57	940	47	25	26	12
21	90	1,080	41	49	511	54	78	1,260	35	23	28	12
22	71	1,100	42	48	362	54	63	3,060	29	24	25	10
23	64	607	42	47	190	49	56	2,580	29	25	22	10
24	63	385	43	47	84	47	53	1,140	26	22	19	9.5
25	59	232	44	48	71	48	46	305	23	18	19	8.2
26	56	197	46	50	116	43	43	258	20	20	18	8.3
27	52	149	46	48	110	46	41	378	17	24	19	8.2
28	49	120	46	50	107	44	46	204	15	22	23	7.3
29	48	104	46	52	------	44	44	211	14	19	19	7.9
30	46	89	45	56	------	42	40	152	14	18	16	7.9
31	46	------	44	60	------	39	------	104	------	21	17	------
TOTAL	14,093	5,055	1,517	1,334	5,254	1,770	1,670	12,729	2,608	654	900	358.3
MEAN	455	169	48.9	43.0	188	57.1	55.7	411	86.9	21.1	29.0	11.9
MAX	3,350	1,100	79	60	696	97	93	3,060	318	28	58	20
MIN	46	39	38	32	45	39	34	31	14	15	16	7.3
AC-FT	27,950	10,030	3,010	2,650	10,420	3,510	3,310	25,250	5,170	1,300	1,790	711

CAL YR 1973 TOTAL 67,826.0 MEAN 186 MAX 3,350 MIN 16 AC-FT 134,500
WTR YR 1974 TOTAL 47,942.3 MEAN 131 MAX 3,350 MIN 7.3 AC-FT 95,090

PEAK DISCHARGE (BASE, 900 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-12	1100	20.20	3,660	5-22	2200	20.54	3,730
11-21	2300	13.65	1,500				

06880800 West Fork Big Blue River near Dorchester, Nebr.

LOCATION.--Lat 40°43'52", long 97°10'38", in SW1/4SW1/4 sec.23, T.9 N., R.2 E., Seward County, 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).

PERIOD OF RECORD.--August 1958 to current year.

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.

AVERAGE DISCHARGE.--16 years, 179 ft³/s (5.069 m³/s), 129,700 acre-ft/yr (0.160 km³/yr).

EXTREMES.--Current year: Maximum discharge, 2,880 ft³/s (81.6 m³/s) Oct. 15, gage height, 14.76 ft (4.499 m); minimum daily, 40 ft³/s (1.13 m³/s) Sept. 26,29,30.
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, 20 ft³/s (0.57 m³/s) July 7, 1970.
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.

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. Records of chemical analysis and water temperatures for the water year 1974 are published in part 2 of this report.

REVISIONS.--WSP 1919: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,040	104	121	66	100	146	76	210	90	66	130	73
2	984	100	122	76	100	132	76	153	85	68	132	71
3	839	98	121	74	98	124	79	115	82	73	125	70
4	619	96	121	70	97	121	83	99	79	73	140	69
5	470	93	114	74	95	119	83	95	78	74	136	66
6	275	92	106	78	97	112	83	93	79	81	131	62
7	257	90	102	72	94	108	83	88	80	90	124	59
8	170	89	95	74	98	106	82	86	86	93	125	56
9	149	87	96	72	94	102	80	88	204	99	127	53
10	708	86	92	76	98	101	84	90	245	106	127	50
11	2,160	85	92	68	100	101	89	122	304	103	128	48
12	2,320	84	92	66	113	100	98	123	379	100	131	51
13	2,260	87	90	72	226	98	99	114	543	110	114	49
14	2,520	88	91	80	372	97	101	105	718	119	103	50
15	2,740	87	89	88	408	95	99	103	651	123	100	50
16	2,250	85	76	90	454	95	96	97	293	129	182	47
17	1,720	85	80	92	520	94	88	93	184	125	213	45
18	1,030	83	84	95	758	91	87	94	147	122	232	45
19	481	83	74	88	770	89	89	150	131	133	157	45
20	348	243	60	87	774	88	94	121	118	123	140	45
21	284	776	80	86	619	88	154	302	102	131	135	45
22	243	628	86	83	465	87	118	392	92	137	125	44
23	210	453	84	82	353	87	107	257	89	133	113	43
24	187	358	94	83	227	85	98	175	85	126	101	42
25	166	292	88	84	215	83	84	124	80	132	88	41
26	149	226	88	85	187	82	80	106	77	130	79	40
27	133	181	92	85	181	79	77	99	71	123	94	41
28	122	157	94	85	161	79	136	94	68	128	94	41
29	110	136	84	84	------	79	360	92	69	132	87	40
30	110	125	76	90	------	78	276	118	64	131	79	40
31	107	------	70	100	------	77	------	134	------	128	75	------
TOTAL	25,161	5,277	2,654	2,505	7,874	3,023	3,239	4,132	5,373	3,441	3,867	1,521
MEAN	812	176	92.1	80.8	281	97.5	108	133	179	111	125	50.7
MAX	2,740	776	122	100	774	146	360	392	718	137	232	73
MIN	107	83	60	66	94	77	76	86	64	66	75	40
AC-FT	49,910	10,470	5,660	4,970	15,620	6,000	6,420	8,200	10,660	6,830	7,670	3,020

CAL YR 1973 TOTAL 98,845 MEAN 271 MAX 2,740 MIN 60 AC-FT 196,100
WTR YR 1974 TOTAL 68,267 MEAN 187 MAX 2,740 MIN 40 AC-FT 135,400

PEAK DISCHARGE (BASE, 1,500 FT³/S).--Oct. 15 (0500) 2,880 ft³/s (14.76 ft).

06881000 Big Blue River near Crete, Nebr.

LOCATION.--Lat 40°35'47", long 96°57'36", in SW1/4SE1/4 sec.3, T.7 N., R.4 E., Saline County, 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).

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.

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.

AVERAGE DISCHARGE.--21 years (1953-74), 355 ft³/s (10.05 m³/s), 257,200 acre-ft/yr (0.317 km³/yr).

EXTREMES.--Current year: Maximum discharge, 7,520 ft³/s (213 m³/s) Oct. 11, gage height, 23.11 ft (7.044 m); minimum daily, 65 ft³/s (1.84 m³/s) Sept. 26,27.
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, 13 ft³/s (0.37 m³/s) Oct. 28, 1956.

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. Records of chemical analyses, water temperatures, and fluvial sediments for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 1919: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,930	245	293	175	306	364	176	476	366	90	134	116
2	1,610	237	278	180	230	333	177	375	275	83	130	114
3	1,420	228	270	180	210	310	177	313	250	78	138	107
4	1,170	222	274	180	200	298	180	269	228	83	140	104
5	852	217	263	180	190	285	178	248	215	83	161	100
6	618	212	238	190	185	274	190	238	216	84	159	96
7	440	210	217	180	185	264	219	233	209	87	148	95
8	364	207	249	190	190	253	223	230	214	102	142	85
9	331	203	219	180	195	243	226	227	223	98	233	88
10	3,400	200	208	190	202	231	215	229	321	87	235	85
11	6,430	198	214	180	203	227	211	324	459	100	208	82
12	6,900	197	214	180	297	229	210	403	476	98	194	81
13	7,150	198	215	190	514	229	224	415	642	90	186	83
14	5,770	201	209	200	842	228	284	359	833	98	164	81
15	4,690	201	190	198	1,000	225	273	368	930	114	152	78
16	4,130	201	185	191	856	228	250	376	801	115	206	82
17	2,780	198	185	208	880	226	225	344	446	120	549	82
18	1,940	197	180	220	1,180	215	215	941	320	120	577	81
19	1,140	194	170	220	1,660	213	215	1,390	274	114	409	80
20	744	263	150	229	1,520	210	212	1,060	230	118	261	71
21	599	1,250	170	232	1,330	203	214	1,300	208	118	214	70
22	506	1,990	180	230	1,120	200	272	1,990	176	146	196	73
23	438	1,600	190	220	871	201	250	2,770	153	152	181	73
24	387	1,060	190	218	585	198	229	3,340	142	137	163	71
25	351	815	190	211	355	186	211	1,870	136	139	152	66
26	328	621	190	243	456	185	189	618	121	146	131	65
27	306	509	195	253	428	187	182	501	112	146	121	65
28	285	414	195	233	414	189	341	591	108	139	148	66
29	270	355	195	238	------	187	803	398	94	135	140	67
30	258	321	190	300	------	186	634	399	91	143	132	66
31	253	------	180	377	------	177	------	439	------	129	119	------
TOTAL	57,790	13,164	6,486	6,596	16,604	7,184	7,605	23,034	9,269	3,492	6,223	2,473
MEAN	1,864	439	209	213	593	232	254	743	309	113	201	82.4
MAX	7,150	1,990	293	377	1,660	364	803	3,340	930	152	577	116
MIN	253	194	150	175	185	177	176	227	91	78	119	65
AC-FT	114,600	26,110	12,860	13,080	32,930	14,250	15,080	45,690	18,390	6,930	12,340	4,910

CAL YR 1973 TOTAL 227,202 MEAN 622 MAX 7,150 MIN 89 AC-FT 450,700
WTR YR 1974 TOTAL 159,920 MEAN 438 MAX 7,150 MIN 65 AC-FT 317,200

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-11	1600	23.11	7,520	5-24	1000	16.65	3,430
5-18	2300	17.11	3,660				

06881200 Turkey Creek near Wilber, Nebr.

LOCATION.--Lat 40°28'48", long 97°00'43", in NE1/4NE1/4 sec.19, T.6 N., R.4 E., Saline County, 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).

PERIOD OF RECORD.--October 1959 to current year.

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.

AVERAGE DISCHARGE.--15 years, 84.3 ft³/s (2.387 m³/s), 61,080 acre-ft/yr (75.3 hm³/yr); median of yearly mean discharges, 62 ft³/s (1.756 m³/s), 44,900 acre-ft/yr (55.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,000 ft³/s (198 m³/s) Oct. 12, gage height, 17.92 ft (5.462 m), from highwater mark; minimum daily, 0.34 ft³/s (0.010 m³/s) Sept. 30.
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. minimum daily, 0.10 ft³/s (0.003 m³/s) July 13-16, 1966.

REMARKS.--Records fair except those for winter period, which are poor. Many diversions above station for irrigation. Records of chemical analyses and water temperatures for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 1919: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,120	42	49	25	240	62	29	152	23	9.2	12	7.5
2	770	39	46	26	190	57	29	98	23	10	13	7.0
3	237	38	43	26	130	57	29	74	22	10	13	6.0
4	138	37	43	26	90	55	28	46	22	9.2	15	5.5
5	99	37	43	25	70	51	28	37	22	7.2	13	5.0
6	77	36	34	29	90	48	28	32	22	6.8	13	5.0
7	61	36	33	28	68	46	28	31	22	6.2	15	4.8
8	49	37	43	29	54	46	28	30	22	6.0	15	4.5
9	38	35	38	28	58	43	28	30	23	4.0	52	4.0
10	3,220	34	34	29	58	41	28	31	23	6.8	78	3.3
11	6,000	33	40	27	58	38	28	42	23	8.2	31	2.5
12	6,400	33	35	27	67	38	28	49	23	7.5	24	2.0
13	3,950	34	36	27	211	39	30	41	23	3.8	22	2.0
14	2,410	33	33	26	522	39	36	36	22	7.2	22	1.8
15	1,850	33	30	27	706	39	41	33	22	8.0	21	1.7
16	815	33	31	28	684	38	38	30	22	12	18	2.0
17	311	32	29	29	482	38	37	27	21	16	16	1.7
18	225	32	28	40	327	37	34	39	20	12	16	1.5
19	169	32	26	66	473	36	31	522	21	12	22	1.5
20	134	49	25	80	621	35	29	129	20	12	35	1.2
21	109	213	26	74	392	35	30	48	19	10	47	1.4
22	93	608	28	62	226	34	33	58	18	10	43	1.3
23	81	522	30	50	160	34	85	69	16	10	29	.76
24	73	300	31	50	102	32	64	36	16	11	23	.50
25	67	167	30	50	80	32	43	30	15	11	20	.50
26	61	117	30	76	88	31	36	26	14	12	16	.63
27	53	91	29	130	75	31	32	24	11	13	15	.50
28	49	75	29	122	62	32	33	23	10	13	14	.63
29	46	64	28	90	------	31	69	23	11	14	17	.50
30	44	55	26	120	------	31	167	24	10	10	16	.34
31	43	------	24	190	------	30	------	24	------	11	9.2	------
TOTAL	28,792	2,927	1,030	1,662	6,384	1,236	1,207	1,894	581	299.1	715.2	77.56
MEAN	929	97.6	33.2	53.6	228	39.9	40.2	61.1	19.4	9.65	23.1	2.59
MAX	6,400	608	49	190	706	62	167	522	23	16	78	7.5
MIN	38	32	24	25	54	30	28	23	10	3.8	9.2	.34
AC-FT	57,110	5,810	2,040	3,300	12,660	2,450	2,390	3,760	1,150	593	1,420	154

CAL YR 1973 TOTAL 76,727.40 MEAN 210 MAX 6,400 MIN 8.0 AC-FT 152,200
WTR YR 1974 TOTAL 46,804.86 MEAN 128 MAX 6,400 MIN .34 AC-FT 92,840

PEAK DISCHARGE (BASE, 1,000 FT³/S).--Oct. 1 (2200) 1,150 ft³/s (12.14 ft); Oct. 12 (0500) 7,000 ft³/s (17.92 ft).

06882000 Big Blue River at Barneston, Nebr.

LOCATION.--Lat 40°03'11", long 96°35'16", in SE1/4NW1/4 sec.13, T.1 N., R.7 E., Gage County, 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).

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

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.

AVERAGE DISCHARGE.--42 years, 779 ft³/s (22.06 m³/s), 564,400 acre-ft/yr (0.696 km³/yr).

EXTREMES.--Current year: Maximum discharge, 47,000 ft³/s (1,330 m³/s) Oct. 12, gage height, 32.69 ft (9.964 m); minimum daily, 86 ft³/s (2.44 m³/s) Apr. 13.
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.

REMARKS.--Records fair. Low flow regulated by powerplant at Barneston, which has pondage of about 1,500 acre-ft (1.85 hm³). 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.

REVISIONS (WATER YEARS).--WSP 896: 1932, 1935. WSP 1919: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,220	592	685	294	1,600	877	663	1,170	716	147	138	125
2	4,100	897	1,030	324	1,280	790	468	910	861	148	136	138
3	3,210	788	660	363	959	770	180	715	770	146	132	320
4	2,370	769	598	399	740	708	104	626	577	144	128	138
5	1,690	667	582	441	705	669	269	442	415	139	143	124
6	1,620	1,150	557	249	655	681	332	446	530	138	155	124
7	1,310	521	288	423	496	566	316	419	600	134	336	125
8	840	402	243	312	418	579	286	289	504	131	117	126
9	770	653	510	369	502	562	351	357	578	129	126	127
10	4,940	633	552	374	469	564	378	311	663	129	382	118
11	28,300	797	506	312	470	527	725	350	409	122	361	118
12	42,800	399	520	387	503	528	239	350	444	115	387	115
13	39,900	626	420	375	310	519	86	360	661	117	226	117
14	28,200	618	544	372	775	522	281	380	1,020	119	276	117
15	19,900	604	423	321	1,470	531	512	390	1,490	115	126	118
16	11,800	565	345	450	1,990	497	464	429	1,670	116	380	115
17	7,960	587	478	420	1,900	523	408	697	1,530	118	114	132
18	5,260	578	291	1,590	1,660	456	455	756	1,170	118	219	123
19	3,690	544	432	2,590	1,770	456	416	770	858	120	673	108
20	2,720	706	255	2,330	2,450	460	357	3,080	448	124	609	105
21	2,140	1,450	270	3,060	2,520	444	392	1,910	446	125	389	106
22	1,780	2,090	291	2,360	2,180	440	420	2,400	179	124	388	106
23	1,630	2,980	387	1,440	1,840	424	388	2,650	493	124	142	105
24	1,450	2,810	482	1,080	1,570	420	400	3,390	343	131	407	103
25	1,330	2,200	956	1,040	1,180	420	440	4,040	281	135	124	104
26	1,190	1,610	767	1,100	940	416	392	3,520	154	138	296	104
27	1,120	1,340	604	1,150	840	419	485	1,390	164	141	125	101
28	1,070	1,100	551	1,200	880	499	364	851	434	143	127	99
29	775	936	393	1,180	------	390	867	916	145	139	130	97
30	900	805	348	1,140	------	393	1,390	946	144	138	299	92
31	987	------	454	1,390	------	388	------	750	------	138	122	------
TOTAL	230,972	30,417	15,422	28,835	33,072	16,438	12,828	36,010	18,697	4,045	7,713	3,650
MEAN	7,451	1,014	497	930	1,181	530	428	1,162	623	130	249	122
MAX	42,800	2,980	1,030	3,060	2,520	877	1,390	4,040	1,670	148	673	320
MIN	770	399	243	249	310	388	86	289	144	115	114	92
AC-FT	458,100	60,330	30,590	57,190	65,600	32,600	25,440	71,430	37,090	8,020	15,300	7,240

CAL YR 1973 TOTAL 727,794 MEAN 1,994 MAX 42,800 MIN 60 AC-FT 1,444,000
WTR YR 1974 TOTAL 438,099 MEAN 1,200 MAX 42,800 MIN 86 AC-FT 869,000

PEAK DISCHARGE (BASE, 10,000 FT³/S).--Oct. 12 (1900) 47,000 ft³/s (32.69 ft).

06883575 Little Blue River near Alexandria, Nebr.

LOCATION.--Lat 40°12'27", long 97°23'23", in SE1/4SE1/4 sec.23, T.3N.,R.1W., Thayer County, 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.

AVERAGE DISCHARGE.--13 years (1959-72), 234 ft³/s (6.627 m³/s), 169,500 acre-ft/yr (0.209 km³/yr).

EXTREMES.--Current year: Maximum discharge, about 15,000 ft³/s (425 m³/s) Oct. 12, 1973, gage height, 17.11 ft (5.215 m), from floodmark at former site, minimum daily discharge during period May to September 1974, 43 ft³/s (1.22 m³/s) Sept. 14.
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.

REMARKS.--Records good. Natural flow affected by irrigation development above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								225	146	79	61	58
2								200	133	78	69	59
3								181	124	74	69	54
4								165	114	71	66	49
5								154	109	71	61	48
6								150	109	67	58	47
7								148	464	69	59	47
8								152	558	65	64	48
9								165	325	66	72	48
10								179	252	67	76	46
11								319	700	70	74	45
12								388	520	71	70	45
13								280	328	87	65	44
14								204	387	84	101	43
15								174	504	75	118	44
16								163	298	66	200	45
17								158	220	67	124	49
18								426	195	69	108	49
19								271	184	69	99	49
20								365	168	71	84	49
21								460	161	69	74	50
22								286	154	67	69	46
23							181	202	137	65	65	46
24							168	177	120	69	60	47
25							156	165	109	67	58	50
26							156	161	101	65	55	51
27							158	158	94	64	67	52
28							161	203	86	61	65	51
29					------		168	225	86	60	63	50
30					------		245	195	83	56	67	51
31		------			------		------	165	------	57	63	------
TOTAL								6,864	6,969	2,136	2,404	1,460
MEAN								221	232	68.9	77.5	48.7
MAX								460	700	87	200	59
MIN								148	83	56	55	43
AC-FT								13,610	13,820	4,240	4,770	2,900

PEAK DISCHARGE (BASE, 2,000 FT³/S).--Oct. 12 (time unknown) about 15,000 ft³/s.

06884000 Little Blue River near Fairbury, Nebr.

LOCATION.--Lat 40°06'54", long 97°10'13", in NW1/4NE1/4 sec.26, T.2 N., R.2 E., Jefferson County, 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.

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.

AVERAGE DISCHARGE.--53 years, 370 ft³/s (10.48 m³/s), 268,100 acre-ft/yr (0.331 km³/yr).

EXTREMES.--Current year: Maximum discharge, 37,800 ft³/s (1,070 m³/s) Oct. 12, gage height 18.96 ft (5.779 m); minimum daily, 76 ft³/s (2.15 m³/s) Sept. 30.
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.

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

REVISIONS (WATER YEARS).--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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,700	358	401	195	1,940	292	200	255	197	147	149	94
2	3,270	342	382	195	1,340	290	195	248	197	151	156	93
3	1,750	329	359	195	888	282	198	243	200	149	155	91
4	1,280	317	340	200	673	278	202	226	193	149	162	90
5	1,000	310	320	205	541	277	198	212	188	145	159	86
6	849	305	300	210	491	270	192	210	201	152	157	86
7	739	300	290	200	454	265	188	205	197	164	147	85
8	645	295	317	210	452	262	192	202	563	164	153	85
9	591	285	309	200	401	258	192	212	418	154	172	82
10	9,370	279	290	220	367	253	202	220	325	151	171	90
11	28,300	275	285	210	380	259	222	301	441	153	172	79
12	32,800	274	288	200	812	256	212	384	550	154	167	79
13	18,800	271	282	230	1,600	250	210	358	437	165	147	81
14	8,420	267	250	280	1,670	247	248	272	346	179	323	84
15	3,460	264	230	437	1,470	244	250	235	479	171	570	87
16	2,370	258	235	492	1,150	238	252	220	376	163	427	86
17	1,790	255	245	535	931	238	256	210	301	160	346	87
18	1,450	250	210	506	873	230	248	273	257	155	245	87
19	1,260	250	175	491	819	228	232	499	235	155	218	86
20	1,110	617	150	444	653	225	250	332	218	150	208	83
21	992	2,470	180	558	541	222	272	395	199	155	175	80
22	874	1,640	220	530	447	220	283	443	187	163	153	78
23	764	1,110	240	506	393	218	255	274	176	165	134	79
24	686	914	245	485	337	220	223	240	171	155	121	77
25	617	691	240	484	347	218	213	229	171	157	116	80
26	559	591	240	647	327	212	205	220	176	159	110	83
27	510	516	235	650	317	205	206	213	169	162	106	81
28	460	469	220	728	301	205	210	209	167	159	113	78
29	422	443	215	749	--- ---	200	212	246	169	154	103	78
30	388	428	205	1,140	------	198	225	232	163	136	100	76
31	372	------	195	2,100	------	198	------	213	------	143	102	------
TOTAL	136,598	15,373	8,093	14,432	20,915	7,458	6,643	8,231	8,067	4,839	5,737	2,511
MEAN	4,406	512	261	466	747	241	221	266	269	156	185	83.7
MAX	32,800	2,470	401	2,100	1,940	292	283	499	563	179	570	94
MIN	372	250	150	195	301	198	188	202	163	136	100	76
AC-FT	270,900	30,490	16,050	28,630	41,480	14,790	13,180	16,330	16,000	9,600	11,380	4,980

CAL YR 1973 TOTAL 344,114 MEAN 943 MAX 32,800 MIN 102 AC-FT 682,600
WTR YR 1974 TOTAL 238,897 MEAN 655 MAX 32,800 MIN 76 AC-FT 473,900

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10- 1	1200	12.44	11,400	11-21	1330	6.83	3,000
10-12	0830	18.96	37,800				

06884025 Little Blue River at Hollenberg, Kans.

LOCATION.--Lat 39°58'48",long 97°00'16", ,NE1/4SW1/4 sec. 8, T.1S., R.4E., Washington County, on right bank and 2 ft (1 m) downstream from bridge on county road, 0.6 mi (1.0 km) west of Hollenberg, Kans., and 1.75 mi (2.82 km) downstream from Nebraska-Kansas State line.

DRAINAGE AREA.--2,752 mi² (7,128 km²).

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.

EXTREMES.--Maximum discharge during period, 2,020 ft³/s (57.2 m³/s) Apr. 29, gage height, 6.50 ft (1.981 m); minimum daily, 92 ft³/s (2.61 m³/s) Sept. 24-27.
Flood of Oct. 12, 1973, reached a stage of 23.07 ft (7.032 m), present datum, from floodmark, discharge not determined.

REMARKS.--Records good. Discharge measurements made prior to 1974 water year are published in table of miscellaneous sites in WRD Nebr. 1973.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						385	280	469	275	194	139	111
2		†460				392	283	394	264	182	160	111
3						385	282	383	258	178	177	113
4						396	280	396	252	172	176	113
5						382	279	388	244	169	186	108
6						373	277	340	277	173	190	103
7						364	277	314	271	177	170	105
8						355	277	300	624	178	167	104
9						346	275	308	654	172	195	100
10						340	276	315	493	162	207	102
11			†389			346	305	785	475	162	205	106
12						352	321	842	835	163	201	98
13					†1290	340	310	728	715	166	171	98
14						337	336	510	510	172	165	98
15						339	360	383	572	181	767	98
16						336	350	341	587	174	608	98
17						325	358	321	450	168	641	100
18						324	357	403	370	166	382	98
19						320	335	802	327	166	283	96
20					760	313	338	482	297	160	257	95
21		†2090			670	295	366	994	274	159	216	94
22					605	295	387	724	256	160	184	94
23					514	286	379	492	245	155	157	93
24					444	283	340	390	236	163	137	92
25					392	283	316	352	228	170	126	92
26					430	283	304	317	223	169	116	92
27					427	274	299	299	218	170	110	92
28					406	286	318	292	207	172	114	94
29					------	286	1,080	308	202	171	116	94
30					------	284	453	321	202	143	112	94
31		------			------	282	------	297	------	136	110	------
TOTAL						10,187	10,398	13,990	11,041	5,203	6,945	2,986
MEAN						329	347	451	368	168	224	99.5
MAX						396	1,080	994	835	194	767	113
MIN						274	275	292	202	136	110	92
AC-FT						20,210	20,620	27,750	21,900	10,320	13,780	5,920

†Result of discharge measurement.

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 1974

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Niobrara River basin				
06460800	Minnechaduza Creek near S. Dak.-Nebr. State line.	Lat 43°01'14", long 100°57'49", in SW1/4SW1/4 sec.10, T.35 N., R.31 W., Todd County, S. Dak., 2 miles upstream from S. Dak.-Nebr. State line and 6 miles north of Kilgore, Nebr.	--	1958a 1959-74	09-17-73 05-08-74 05-30-74 06-20-74 07-10-74 08-22-74 09-11-74	1.4 1.6 2.4 .65 .09 .27 .33
06462450	Plum Creek at Johnstown, Nebr. [1]	Lat 42°34'08", long 100°06'22", in SW1/4 sec.14, T.30 N., R.24 W., Brown County, at bridge on U.S. Highway 20, 2 miles west of Johnstown.	--	1969-74	11-19-73 05-07-74	34 27
06462470	Plum Creek near Johnstown, Nebr. [1]	Lat 42°40'01", long 100°03'26", in SE1/4 sec.7, T.31 N., R.23 W., Brown County, at county road bridge 0.2 mile upstream from Sand Draw and 6.5 miles north of Johnstown.	--	1969-74	11-19-73 05-07-74	85 109
06463090	Bone Creek at Ainsworth, Nebr. [1]	Lat 42°32'51", long 99°52'33", in NE1/4 sec.27, T.30 N., R.22 W., Brown County, at bridge on U.S. Highway 20, 0.6 mile west of junction of Highways 7 and 20 in Ainsworth.	--	1969-74	05-07-74	3.2
06463350	Bone Creek near Long Pine, Nebr. [1]	Lat 42°40'16", long 99°46'06", in SW1/4 sec.10, T.31 N., R.21 W., Brown County, at bridge on U.S. Highway 183, 8.4 miles north from junction of Highways 20 and 183 and 2.8 miles west of Long Pine.	--	1969-74	11-20-73 05-08-74	32 34
06465050	Eagle Creek near Midway, Nebr.	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.	--	1969-74	11-13-73 05-08-74	25 24
06465100	East Branch Eagle Creek near Midway, Nebr.	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.	--	1969-74	11-13-73 05-08-74	10 9.1
06465202	Honey Creek near Midway, Nebr.	Lat 42°37'22", long 98°41'26", in NE1/4NW1/4 sec.35, T.31 N., R.12 W., Holt County, at county road bridge 5 miles south and 1.6 miles west of Midway.	--	1969-74	11-13-73 05-08-74	.12 .11
06465305	Camp Creek at Meek, Nebr.	Lat 42°41'44", long 98°37'00", in NE1/4NE1/4 sec.5, T.31 N., R.11 W., Holt County, at county road bridge 0.4 mile east of Meek.	--	1969-74	11-12-73 05-08-74	.47 .21
06465398	Redbird Creek near Meek, Nebr.	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.	--	1969-74	11-12-73 05-08-74	18 14

See footnotes at end of table

Discharge measurements made at low-flow partial record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Niobrara River basin--Continued				
06465420	Blackbird Creek near Meek, Nebr.	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.	--	1969-74	11-12-73	8.1
					05-08-74	6.4
		Platte River basin				
06772500	Wood River near Chapman, Nebr. [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, 1961-74	10-15-73	72
					11-05-73	26
					12-03-73	48
					01-09-74	26
					01-22-74	69
					02-07-74	68
					02-19-74	78
					03-06-74	43
					03-18-74	40
					04-04-74	54
					04-16-74	62
					04-29-74	48
					05-16-74	32
					05-28-74	30
					06-12-74	26
					06-26-74	32
					07-11-74	25
					07-25-74	15
					08-05-74	4.7
					08-19-74	7.5
					09-10-74	.03
					09-18-74	.80
		Kansas River basin				
06824200	Horse Creek near Parks, Nebr.	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, 1961-74	10-02-73	.79
					03-18-74	1.6
					04-29-74	1.3
					09-17-74	.05
06828200	Indian Creek near Max, Nebr.	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, 1961-74	10-02-73	7.7
					03-18-74	8.6
					04-29-74	4.4
					05-28-74	5.1
					07-22-74	1.5
					09-17-74	2.7
06847550	Flaq Creek at Orleans, Nebr.	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	03-27-74	1.9
					04-26-74	1.8
					05-22-74	1.5
					06-20-74	1.2
					07-25-74	3.7
					08-23-74	11
					09-19-74	.41
06847560	Rope Creek near Orleans, Nebr.	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	03-27-74	1.1
					04-26-74	1.2
					05-22-74	.71
					06-20-74	.68
					07-25-74	.12
					08-23-74	.10
					09-19-74	.13
06849400	Eureka Creek near Naponee, Nebr.	Lat 40°04'37", long 99°11'25", in SE1/4SW1/4 sec.1, T.1 N., R.17 W., Franklin County, at county road bridge 0.3 mile upstream from mouth and 2.5 miles west of Naponee.	--	1949, 1951-60a, 1961-74	03-27-74	.72
					04-25-74	.66
					05-22-74	1.1
					06-20-74	1.9
					07-25-74	1.7
					08-23-74	1.8
					09-19-74	1.1
* 06850000	Turkey Creek at Naponee, Nebr.	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, 1961-74	10-30-73	16
					04-01-74	13
					05-28-74	12
					06-10-74	112
					07-08-74	5.5
					08-06-74	10
					09-03-74	7.9

Discharge measurements made at low-flow partial record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Kansas River basin--Continued				
* 06850200	Cottonwood Creek, near Bloomington, Nebr.	Lat 40°05'08", 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, 1961-74	10-30-73	4.4
					04-01-74	5.3
					05-28-74	4.4
					06-10-74	5.3
					07-08-74	3.4
					08-06-74	3.5
					09-03-74	3.4
06850400	Little Cottonwood Creek near Bloomington, Nebr.	Lat 40°05'14", long 99°03'31", in NE1/4NW1/4 sec.6, T.1 N., R.15 W., Franklin County, at county road bridge 1.2 miles southwest of Bloomington and 1.5 miles upstream from mouth.	--	1949, 1951-60a, 1961-74	03-27-74	2.5
					04-25-74	2.4
					05-22-74	2.1
					06-20-74	2.0
					07-25-74	1.9
					08-23-74	1.4
					09-19-74	1.4
06851020	Walnut Run near Franklin, Nebr.	Lat 40°05'51", long 98°55'00", in SE1/4NE1/4 sec.32, T.2 N., R.14 W., Franklin County, at bridge on U.S. Highway 136, 1.2 miles upstream from mouth and 1.8 miles east of Franklin.	--	1949, 1951-60a, 1961-74	03-27-74	1.2
					04-25-74	1.0
					05-22-74	.94
					06-20-74	.76
					07-25-74	.59
					08-23-74	.60
					09-19-74	.61
06851600	Farmers Creek near Inavale, Nebr.	Lat 40°05'24", long 98°41'43", in SW1/4SE1/4 sec.32, T.2 N., R.12 W., Webster County, at bridge on U.S. Highway 136, 0.6 mile upstream from mouth and 2.5 miles west of Inavale.	--	1949, 1951-60a, 1961-74	03-27-74	4.9
					04-25-74	4.1
					05-22-74	3.3
					06-20-74	3.1
					07-25-74	2.2
					08-23-74	2.4
					09-19-74	1.7
06851700	Indian Creek near Red Cloud, Nebr.	Lat 40°05'25", long 98°34'06", in SE1/4 SW1/4 sec.33, T.2 N., R.11 W., Webster County, at bridge on U.S. Highway 136, 2.5 miles upstream from mouth and 2.8 miles west of Red Cloud.	--	1949, 1951-60a, 1961-74	03-27-74	3.5
					04-25-74	3.5
					05-22-74	3.2
					06-20-74	2.4
					07-25-74	2.8
					08-23-74	17
					09-19-74	.61
06851800	Crooked Creek near Red Cloud, Nebr.	Lat 40°05'25", long 98°30'42", in SE1/4SW1/4 sec.36, T.2 N., R.11 W., Webster County, at bridge on U.S. Highway 136 at east edge of Red Cloud.	--	1949, 1951-60a, 1961-74	03-27-74	2.7
					04-25-74	2.8
					05-22-74	2.2
					06-20-74	2.0
					07-25-74	1.5
					08-23-74	2.0
					09-19-74	1.0
* 06852000	Elm Creek at Amboy, Nebr.	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, 1961-74	10-30-73	20
					04-02-74	18
					05-28-74	17
					06-11-74	21
					07-08-74	10
					08-05-74	16
					09-03-74	12
06852200	Willow Creek near Guide Rock, Nebr.	Lat 40°05'26", long 98°23'45", in SW1/4SE1/4 sec.36, T.2 N., R.10 W., Webster County, at bridge on U.S. Highway 136, 2 miles upstream from mouth and 3.8 miles northwest of Guide Rock.	--	1949, 1951-60a, 1961-74	03-27-74	1.4
					04-25-74	1.5
					05-22-74	.99
					06-20-74	1.1
					07-25-74	1.6
					08-23-74	4.6
					09-19-74	1.2

* Also a crest-stage gage.
# Operated as a continuous-record gaging station.
1 Also published with additional data in Part 2 of this report.
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 1974

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Cheyenne River basin					
06396490	Warbonnet Creek near Harrison, Nebr.	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	1969-74	04-17-74	11.14	22
		White River basin					
06443300	Deep Creek near Glen, Nebr.	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	1953-74	08-23-74	11.13	212
06443700	Soldiers Creek near Crawford, Nebr.	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	1955-74	01-16-74	12.28	96
06445530	Chadron Creek tributary at Chadron State Park near Chadron, Nebr.	Lat 42°41'49", long 103°00'09", in NE1/4NW1/4 sec.6, T.31 N., R.48 W., Dawes County, on left downstream side of concrete box culvert on U.S. Highway 385, 9 miles south of Chadron.	2.59	1953-74	74	-	0
06445560	Chadron Creek at Chadron State Park near Chardon Nebr.	Lat 42°42'27", long 103°00'33", in SE1/4NE1/4 sec.36, T.32 N., R.49 W., Dawes County, on left downstream wingwall of concrete culvert, 8 miles south of Chadron.	15.4	1953-74	74	(a)	b2
		Niobrara River basin					
06454400	Niobrary River tributary near Belmont, Nebr.	Lat 42°36'16", long 103°22'31", in SE1/4SW1/4 sec.25, T.30 N., R.52 W., Dawes 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	1971-74	07-20-74	11.90	(+)
06456200	Pebble Creek near Esther, Nebr.	Lat 42°35'38", long 103°03'55", in NW1/4NW1/4 sec.10, T.30 N., R.49 W., Dawes 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	1953-74	01-18-74	10.51	2.7
06456400	Cottonwood Creek near Dunlap, Nebr.	Lat 42°29'29", long 102°58'08", in SW1/4NW1/4 sec.16, T.29 N., R.48 W., Dawes 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, 1951-74	04-11-74	11.32	2.5
06457100	Point of Rocks Creek near Marsland, Nebr.	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	1970-74	74	-	0
06457200	Berea Creek near Alliance, Nebr.	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	1953-70c, 1971-74	74	-	0

See footnotes at end of table

Annual maximum discharge at crest stage partial record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Niobrara River basin--Continued					
06457800	Antelope Creek tributary near Gordon, Nebr.	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	1953-74	02-10-74	10.03	5
06461300	Big Beaver Creek near Valentine, Nebr.	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	1971-74	05-20-74	11.41	(+)
06463300	Sand Draw tributary near Ainsworth, Nebr. (discontinued 9-30-74)	Lat 42°36'03", long 99°56'59", in SW1/4NW1/4 sec.6, T.30 N., R.22 W., Brown County, on north-south abandoned road right-of-way, 5.5 miles northwest of Ainsworth.	1.07	1956-74	06-09-74	11.69	22
06465300	Camp Creek near O'Neill, Nebr.	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	1958-74	06-09-74	(a)	b5
06465850	Bingham Creek near Niobrara, Nebr.	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.	d 6.5	1968-74	06-09-74	11.73	b4
		Weigand Creek basin					
06466950	Weigand Creek near Crofton, Nebr.	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.	d 3.5	1968-74	06-09-74	(a)	b3
		Bow Creek basin					
06478520	West Bow Creek near Fordyce, Nebr.	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, 1967e, 1967-74	08-08-74	13.12	460
		Omaha Creek basin					
06600800	South Omaha Creek tributary No. 2 near Walthill, Nebr.	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	1950-74	06-14-67 03-18-69 02-18-71 08-01-72 05-29-74	12.62 12.00 12.16 12.47 13.03	f640 f430 f475 f583 856
06600900	South Omaha Creek at Walthill, Nebr.	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	1951-74	05-29-74	18.36	3,700
		Tekamah Creek basin					
06607800	South Branch Tekamah Creek tributary near Tekamah, Nebr.	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	1950-74	06-08-74	15.27	905

Annual maximum discharge at crest stage partial record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		New York Creek basin					
06608700	New York Creek tributary near Spiker, Nebr.	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	1951-74	08-15-74	25.90	98
06608800	New York Creek north of Spiker, Nebr.	Lat 41°37'32", long 96°18'34", in SE1/4SE1/4 sec.8, T.19 N., R.10 E., Washington County, at bridge 100 ft west of present crossing of north-south county road and 1.1 miles north of Spiker.	6.50	1951-74	05-26-74	11.53	320
06608900	New York Creek east of Spiker, Nebr.	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	1950-74	04-16-74	8.57	175
		Papillion Creek basin					
06610700	Big Papillion Creek near Orum, Nebr.	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	1968-74	08-08-74	12.05	(+)
		Platte River basin					
06678750	Dry Spottedtail Creek tributary near Mitchell, Nebr.	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	1971-74	74	-	0
06684900	Hackberry Creek near Redington, Nebr.	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	1970-74	05-09-72 02-24-73 08-09-74	11.80 11.45 12.89	g280 g200 540
06687600	Ash Hollow near Oshkosh, Nebr.	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	1968e, 1968, 1970-74	74	-	0
06762650	Lodgepole Creek tributary near Kimball, Nebr.	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	1970-74	09-22-74	11.88	(+)
06763200	Lodgepole Creek tributary near Sunol, Nebr.	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	1968e, 1968-74	74	-	0
06767200	North Fork Plum Creek tributary near Farnam, Nebr.	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	1952-74	06-09-74	10.42	22
06767410	Plum Creek near Farnam, Nebr.	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, 1951-74	06-09-74	11.72	170

Annual maximum discharge at crest stage partial record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Platte River basin--Continued					
06768050	Buffalo Creek tributary No. 1 near Buffalo, Nebr.	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	1965-74	06-09-74	12.22	70
06768100	East Buffalo Creek near Buffalo, Nebr.	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	1951-74	74	-	0
06768400	West Buffalo Creek near Buffalo, Nebr.	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	1951-74	06-09-74	(a)	b0.5
06769100	Elm creek tributary near Overton, Nebr.	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	1951-74	06-30-71 06-27-72 07-20-73 06-12-74	12.80 13.49 13.38 14.33	f41 f66 f52 103
06769200	Elm Creek near Sumner, Nebr.	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	1951-74	06-09-74	13.25	77
06769300	Elm Creek tributary No. 2 near Overton, Nebr.	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	1951-74	06-09-74	12.69	270
06770600	Wood River tributary near Lodi, Nebr.	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	1952-74	06-09-74	(a)	b1
06770700	Wood River near Lodi, Nebr.	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	1952-74	06-09-74	11.69	33
06770800	Wood River near Oconto, Nebr.	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, 1952-74	06-09-74	12.45	85
06770900	Wood River at Oconto, Nebr.	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, 1952-74	06-09-74	11.58	60
06770910	Wood River near Lomax, Nebr.	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	1952-74	07-03-74	13.17	177
06771000	Wood River near Riverdale, Nebr.	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	06-16-74	4.45	78

Annual maximum discharge at crest stage partial record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Platte River basin--Continued					
06775700	North Fork Dismal River near Mullen Nebr.	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	1971-74	06-09-74	16.42	136
06777600	Lillian Creek tributary near Broken Bow, Nebr	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 Hignway 2 in Broken Bow.	2.02	1952-74	06-09-74	-	b1
06777700	Lillian Creek near Broken Bow, Nebr.	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, 1951-74	06-09-74	h9.89	b1
06777800	Lillian Creek tributary near Walworth, Nebr.	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	1951-74	06-09-74	-	b.25
06782600	South Branch Mud Creek tributary near Broken Bow, Nebr.	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	1951-74	06-12-74	13.75	148
06782700	South Branch Mud Creek at Broken Bow, Nebr.	Lat 41°24'07", long 99°38'51", in SE1/4NW1/4 sec.32, T.17 N., R.20 W., Custer County, at bridge on State Highway 2, 0.2 mile upstream from confluence with North Branch of Mud Creek and 0.3 mile west of Arrow Hotel at town square in Broken Bow.	86	1945, 1951-74	04-26-74	13.19	355
06782900	Mud Creek tributary near Broken Bow, Nebr.	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, 1951-74	06-09-74	12.40	52
06784700	Turkey Creek near Farwell, Nebr.	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, 1953-74	06-09-74	-	b5
06789400	Davis Creek southwest of North Loup, Nebr.	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	1951-74	05-21-74	12.03	7
06790600	East Branch Spring Creek tributary near Wolbach, Nebr.	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	1952-74	08-17-74	11.31	23
06790700	West Branch Spring Creek at Brayton, Nebr.	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, 1952-74	06-09-74	(a)	b5
06791100	Spring Creek near Cushing, Nebr.	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	1948j, 1949-53#j, 1953-74	06-09-74	-	b90

Annual maximum discharge at crest stage partial record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Platte River basin--Continued					
06793995	Skeedee Creek tributary near Genoa, Nebr.	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	1964e, 1964, 1968-74	06-09-74	(a)	b1
06794710	Bone Creek near David City, Nebr.	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	1963e, 1963, 1968-74	05-21-74	15.28	1,000
06799190	South Fork Union Creek tributary near Cornlea, Nebr.	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	1967-74	04-03-74	12.55	590
06799423	North Logan Creek near Larel, Nebr.	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.	d25.3	1965e, 1965, 1967e, 1967-74	04-03-74	13.05	145
06799850	Pond Creek near Schuyler, Nebr.	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	1968-74	08-09-74	(a)	b20
06800350	Elkhorn River tributary near Nickerson, Nebr.	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	1968-74	06-25-68 03-17-69 06-11-70 02-18-71 05-01-72 03-24-73 05-10-74	10.66 15.23 14.40 14.08 11.29 13.72 13.76	k6 k192 k137 k118 k16 k99 101
06803200	Antelope Creek at 48th Street, Lincoln, Nebr.	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, 1958-74	10-11-73	12.12	70
06803300	Antelope Creek at 27th Street, Lincoln, Nebr.	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	1957-74	08-24-72 09-26-73 10-11-73	5.30 8.74 7.95	f720 f1830 1,550
06803400	Antelope Creek at 17th Street Lincoln, Nebr.	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 mouth.	12.1	1958-62≠, 1963-74	05-18-74	6.52	1,220
06803540	Dee Creek near Alvo, Nebr.	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	1961e, 1962-74	10-10-73	14.51	1,350
06803570	Dunlap Creek tributary near Weston, Nebr.	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	1950-74	04-14-74	12.99	128
06803600	North Fork Wahoo Creek near Prague, Nebr.	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	1951-74	10-11-73	g5.07	47

Annual maximum discharge at crest stage partial record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Platte River basin--Continued					
06803900	North Fork Wahoo Creek at Weston, Nebr.	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	1951-74	10-11-73	15.40	1,160
06804100	Silver Creek near Cedar Bluffs, Nebr.	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	1950-74	10-10-73	10.12	90
06804200	Silver Creek near Colon, Nebr.	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	1950-74	10-11-73	(a)	b100
06804300	Silver Creek tributary near Colon, Nebr.	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	1951-74	10-11-73	11.55	27
06804400	Silver Creek tributary at Colon, Nebr.	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	1951-74	10-11-73	12.14	40
06804500	Silver Creek at Ithaca, Nebr.	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≠, 1959-74	10-11-74	g7.29	330
06805510	Buffalo Creek near Gretna, Nebr.	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	1968-74	05-10-74	17.60	(+)
		Weeping Water Creek basin					
06806440	Stove Creek at Elmwood, Nebr.	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	1950-74	10-11-73	17.91	2,020
06806460	Weeping Water Creek at Weeping Water, Nebr.	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 southof north-south road, 1 mile southeast of Weeping Water.	80.1	1947, 1950-74, 1973-74e	10-11-73	11.83	2,700
06806470	Weeping Water Creek tributary near Weeping Water, Nebr.	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	1950-74	05-31-74	14.20	455
		Honey Creek basin					
06810060	Honey Creek near Peru, Nebr.	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	1968-74	05-11-74	13.98	645

Annual maximum discharge at crest stage partial record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Little Nemaha River basin					
06810100	Hooper Creek tributary near Palmyra, Nebr.	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	1950-74	10-10-73	15.05	1,210
06810400	Little Nemaha River tributary near Syracuse, Nebr.	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	1950-74	09-26-73 10-10-73	f10.58 10.54	f158 153
		Big Nemaha River basin					
06815510	Temple Creek near Falls City, Nebr.	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	1968-74	10-11-73	12.64	1,010
		Kansas River basin					
06828100	North Branch Indian Creek near Max, Nebr.	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	1962e, 1962, 1970-74	06-09-74	12.03	300
06829700	Thompson Canyon near Trenton, Nebr.	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	1966e, 1968e, 1966-73	06-08-74	7.78	224
06834100	Spring Creek tributary near Grant, Nebr.	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	1970-74	74	-	0
06835100	Bobtail Creek near Palisade, Nebr.	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 Fremchman Creek.	d30.2	1966-67e, 1966-74	08-08-74	4.15	175
06837100	Ash Creek near Red Willow, Nebr.	Lat 40°11'28", long 100°29'19", in SE1/4SW1/4 sec.28, T.3 N., R.28 W., Red Willow County, 4 ft downstream from bridge on county road, 3 miles south and 1 mile east of Red Willow school and 1.8 miles upstream from Republican River.	22.0	1966e, 1966-74	06-08-74	h7.5	220
06838200	Coon Creek at Indianola, Nebr.	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	1961-74	06-09-74	4.20	155
06838550	Dry Creek at Bartley, Nebr.	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	1961-74	06-09-74	10.50	260

Annual maximum discharge at crest stage partial record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Kansas River basin--Continued					
06839000	Medicine Creek at Maywood, Nebr.	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	1951-58≠, 1960-74	06-09-74	h3.0	100
06839200	Elkhorn Canyon near Maywood, Nebr.	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	1952-74	06-09-74	10.24	58
06839500	Brushy Creek near Maywood, Nebr.	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, 1951-58≠, 1960-74	06-09-74	h3.0	13
06839700	Frazier Creek tributary near Maywood, Nebr.	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	1952-74	74	-	0
06839900	Fox Creek upstream from Cut Canyon near Curtis, Nebr.	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	1951-74	06-09-74	-	b10
06839950	Cut Canyon near Curtis, Nebr.	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	1951-74	06-09-74	11.88	125
06849600	Turkey Creek near Holdrege, Nebr.	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, 1967e, 1967-74	06-09-74	13.32	300
* 06850000	Turkey Creek at Naponee, Nebr.	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	1948-53≠, 1954-61e, 1962-74	10-10-73	6.40	575
* 06850200	Cottonwood Creek near Bloomington, Nebr.	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	1948-56≠, 1957-61e, 1962-74	10-10-73	6.33	235
06850500	Republican River near Bloomington, Nebr.	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	1929-57≠, 1960-67e, 1970-74m	07-19-74	4.07	m1,050
06851090	Republican River at Riverton, Nebr.	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	1963-67e, 1970-74m	07-22-74	4.84	m944
06851300	West Branch Thompson Creek tributary near Hildreth, Nebr.	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	1953-74	10-10-73	13.38	205
06851400	West Branch Thompson Creek near Upland, Nebr.	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	1953-74	10-10-73	12.00	760

Annual maximum discharge at crest stage partial record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Kansas River basin--Continued					
* 06852000	Elm Creek at Amboy, Nebr.	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#, 1954-60e, 1959, 1961-74	10-10-73	12.92	820
06853100	Beaver Creek near Rosemont, Nebr.	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#, 1971-74	10-09-73	3.46	264
06853400	Republican River at Superior, Nebr.	Lat 40°01'22", long 98°06'17", in NE corner SE1/4 sec.28, T.1 N., R.7 W., Nuckolls County, on downstream guardrail or railroad bridge at cement plant, 2.0 miles west of Superior.	22,300	1961-65e, 1967e, 1971-74m	06-10-74	6.94	m726
06879850	Big Blue River tributary (site 2) near Hordville, Nebr.	Lat 41°02'47", long 97°56'15", in NW1/4NW1/4 sec.6, T.12 N., R.5 W., Hamilton County, at bridge on east-west county road, 2.2 miles south and 2.8 miles west of Hordville.	5.03	1968-71n 1972-74	10-11-73	13.02	170
06880508	Plum Creek near Seward, Nebr.	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	1963e, 1963, 1968-74	10-11-73	19.16	1,900
06880590	North Branch West Fork Big Blue River tributary at Giltner, Nebr.	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	1968-74	08-10-68 03-17-69 08-01-70 02-18-71 09-19-72 03-25-73 06-09-74	11.94 11.44 11.24 11.20 10.22 10.37 13.04	g700 g530 g420 g390 g 48 g 71 945
06880720	School Creek near Harvard, Nebr.	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	1953-74	10-11-73	16.07	635
06880730	School Creek tributary No. 2 near Harvard, Nebr.	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	1953-74	10-11-73	14.71	354
06880775	Beaver Creek tributary near Henderson, Nebr.	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	1968-74	10-11-73	10.08	10
06881250	South Fork Swan Creek tributary near Western, Nebr.	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	1968-74	10-10-73	11.24	(+)
06881450	Indian Creek at Beatrice, Nebr.	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	1960-74	10-10-73	17.82	5,700

Annual maximum discharge at crest stage partial record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Kansas River basin--Continued					
06881500	Big Blue River at Beatrice, Nebr. (made a continuous record station 10-1-74).	Lat 40°15'22", long 96°44'47", in SW1/4NW1/4 sec.3, T.3 N., R.6 E., Gage County, at upstream side of 6th Street bridge which is U.S. Highway 77 in Beatrice.	3,900	1910-15≠, 1954e, 1960-65e, 1967e, 1968-69p, 1969, 1971-74	10-12-73	33.02	49,100
					10-12-73	32.00	m42,800
					10-13-73	28.02	m25,200
					11-21-73	5.76	m1,210
					11-02-73	4.39	m472
					12-11-73	4.15	m370
					01-24-74	5.20	m682
					02-13-74	4.39	m524
					03-27-74	3.95	m330
					04-17-74	4.18	m427
					05-08-74	3.86	m296
					05-14-74	4.56	m560
					06-20-74	4.17	m396
					07-10-74	3.15	m121
06881530	Big Blue River tributary near Beatrice, Nebr.	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	1971-74	10-11-73	20.00	993
06883540	Spring Creek tributary near Ruskin, Nebr.	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	1967-74	10-11-73	14.39	320
06883700	South Fork Big Sand Creek near Davenport, Nebr.	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, 1952-74	10-11-73	15.43	723
06883955	Little Sandy Creek near Ohiowa, Nebr.	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 Ohiowa.	11.6	1968-74	10-10-73	16.34	1,330
06884005	Dry Branch tributary near Fairbury, Nebr.	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	1968-74	10-10-73	15.20	750

* Also a low-flow partial-record station.
\+ Discharge not determined.
≠ Operated as a continuous-record gaging station.
a Stage below bottom of gage, which is 10.0 ft.
b Estimate.
c At site 1.2 miles downstream, drainage area 34.0 sq mi.
d Approximate.
e Discharge measurements published in table for miscellaneous sites.
f Revised.
g Not previously published.
h Outside flood mark.
j At site 1 mile north, record considered equivalent.
k Not previously published.
m Discharge measurement only.
n At site 1.08 miles upstream, drainage area 4.07 sq mi.
p Discharge measurements published in low-flow partial-record table.

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 1974

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Niobrara River Basin						
Long Pine Creek (06463050)	Niobrara River	Lat 42°32'59", long 99°42'23", in NW1/4 sec.30, T.30 N.,R.20W., Brown County, near right bank on downstream side of timber bridge, 0.1 mile downstream from U.S. HW.20 and 1 mile NW of Long Pine, Nebr.	--		10-31-73	54
					11-20-73	50
					12-12-73	52
					01-04-74	52
					02-14-74	53
					03-07-74	56
					04-19-74	59
					05-09-74	54
					06-21-74	54
					07-11-74	50
					08-23-74	50
					09-12-74	56
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, Nebr.	--	1902, 1910-13a, 1954-58†	08-13-74	1,010
Platte River Basin						
Clear Creek	North Platte River	Lat 41°19'21", long 102°02'23", in NE1/4 sec.32, T.16 N., R.41 W., Keith County, at bridge on State Highway 92, 5.9 miles east of Lewellen, Nebr.	--		07-16-74	3.7
					07-26-74	3.2
					08-22-74	3.3
					09-30-74	9.1
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, Nebr.	--	1973	10-10-73	6.0
					11-20-73	6.2
					12-12-73	7.2
					01-16-74	4.1
					02-20-74	7.1
					03-20-74	10
					04-15-74	7.5
					05-13-74	2.9
					06-17-74	2.7
					07-15-74	2.9
					08-12-74	3.2
					09-16-74	.71
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, Nebr. (revised).	--	1973	10-16-73	8.2
					11-07-73	7.6
					04-16-74	15
					09-17-74	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, Nebr.	--	1973	10-11-73	321
					11-07-73	112
					04-16-74	219
					09-17-74	137
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, Nebr.	--	1973	10-29-73	46
					11-05-73	37
					12-21-73	36
					01-15-74	34
					02-07-74	60
					03-13-74	38
					03-28-74	49
					04-10-74	74
					04-23-74	54
					05-08-74	39
					05-21-74	25
					06-05-74	31
					06-18-74	33
					07-02-74	28
					07-17-74	31
					08-01-74	23
					08-13-74	14
					08-29-74	13
					09-11-74	11
					09-26-74	3.6

See footnotes at end of table

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
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, Nebr.	--	1952-56≠, 1958≠, 1960-64≠, 1969-73	10-16-73	713
					10-30-73	848
					11-06-73	899
					11-15-73	839
					11-26-73	948
					12-11-73	761
					12-17-73	738
					12-29-73	1,000
					02-19-74	1,030
					03-12-74	952
					04-01-74	1,000
					05-13-74	657
					06-04-74	738
					07-03-74	693
					07-09-74	694
					07-15-74	697
					07-23-74	645
					07-29-74	611
					08-07-74	792
					08-15-74	772
					08-22-74	820
					08-29-74	756
					09-09-74	776
					09-17-74	777
					09-23-74	808
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, Nebr.	--	1937≠, 1969-73	10-16-73	881
					10-25-73	1,020
					10-30-73	942
					11-09-73	1,160
					11-16-73	917
					11-29-73	1,250
					12-11-73	954
					12-21-73	318
					01-11-74	788
					01-24-74	1,290
					02-25-74	903
					03-26-74	1,070
					04-01-74	1,030
					04-15-74	798
					05-24-74	738
					06-13-74	644
					07-03-74	76
					07-09-74	20
					07-19-74	7.7
					07-23-74	6.0
					07-29-74	24
					08-09-74	83
					08-15-74	74
					08-22-74	164
					08-29-74	69
					09-09-74	126
					09-20-74	370
					09-23-74	327
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, Nebr.	--	1973	10-25-73	2.9
					11-15-73	1.4
					12-11-73	2.2
					01-10-74	1.1
					02-20-74	2.1
					03-13-74	1.5
					04-02-74	1.8
					05-14-74	1.6
					06-05-74	2.4
					07-16-74	2.9
					08-07-74	2.2
					09-19-74	1.1
Oak Creek	Middle Loup River	Lat 41°21'59", long 98°56'41", in SW1/4SE1/4 sec. 8, T.16 N., R.14 W., Sherman County, at bridge on county road 6 miles north of Loup City, Nebr.	--		07-19-74	0
					08-20-74	0

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Platte River Basin--Continued						
Oak Creek [1] (06784300)	Middle Loup River	Lat 41°17'36", long 98°52'04", in NW1/4NE1/4 sec.12, T.15 N., R.14 W., Sherman County, at bridge on county road 1.5 miles downstream from Sherman Dam and 5.1 miles northeast of Loup City, Nebr.	41.9	1952-60#, 1961-64#, 1973	07-19-74 08-20-74	6.0 4.7
Turkey Creek [1] (06784800)	Middle Loup River	Lat 41°09'24", long 98°33'22", in SW1/4NW1/4 sec.26, T.14 N., R.11 W., Howard County, on left bank 25 ft downstream from bridge on State Highway 11, 2.8 miles north of Dannebrog, Nebr.	66.2	1966-70#, 1973	08-09-74	2.8
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, Nebr.	--	1973	10-30-73 11-27-73 01-29-74 02-21-74 03-12-74 04-10-74 05-16-74 06-27-74 07-18-74 08-29-74 09-18-74	55 88 141 98 92 76 59 38 7.5 22 40
Salt Creek	Platte River	Lat 40°36'58", long 96°45'44", in NW1/4SW1/4 sec. 33, T.8 N., R.6 E., Lancaster County, at county road bridge 1.2 miles southwest, of Sprague, Nebr.	--		05-13-74	9.9
Salt Creek (06801300)	Platte River	Lat 40°37'29", long 96°44'00", in NW1/4SE1/4 sec. 34, T.8 N., R.6 E., Lancaster County, at bridge on State Highway Spur 55-A, .5 mile east of Sprague, Nebr.	--		06-12-74	8.7
Salt Creek [1] (06801330)	Platte River	Lat 40°38'41", long 96°41'11", in NW1/4SW1/4 sec.19, T.8 N., R.7 E., Lancaster County, at bridge on county road 1 mile south and 1.3 miles west of Roca, Nebr.	97.7	1971-73	11-29-73 03-21-74 06-13-74 09-24-74	33 21 12 2.0
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, Nebr.	221	1971-73	10-23-73 11-13-73 12-14-73 01-15-74 02-06-74 03-20-74 04-30-74 06-03-74 06-13-74 07-09-74 08-07-74 08-20-74	316 38 56 52 93 52 112 37 23 7.0 4.9 9.2
Haines Branch (06803098)	Salt Creek	Lat 40°47'14", long 96°43'47", in SW1/4SE1/4 sec. 34, T.10 N., R.6 E., Lancaster County, at bridge on Folsom Street 0.2 mile north of intersection of Folsom and Van Dorn Streets and 0.3 mile upstream from confluence with Salt Creek, Lincoln, Nebr.	67.8	1972	05-13-74 06-12-74	29 21
Middle Creek	Salt Creek	Lat 40°52'44", long 96°55'45", in NW1/4SW1/4 sec.36, T.11 N., R.4 E., Seward County, at section road bridge .6 mile south of junction with U.S. Highway 34, 9 miles east-southeast of Seward, Nebr.	--		07-19-74 08-23-74 09-30-74	.69 1.4 .93
Middle Creek Tributary	Middle Creek	Lat 40°53'12", long 96°54'53", in NE1/4NE1/4 sec.36, T.11 N., R.4 E., Seward County, at bridge on U.S. Highway 34, 9 miles east of Seward, Nebr.	--		07-19-74 08-23-74 09-30-74	.70 .43 .71

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Platte River Basin--Continued				
Middle Creek	Salt Creek	Lat 40°50'20", long 96°51'52", SE1/4NE1/4 sec.16, T.10 N., R.5 E., Seward County, just downstream from Pawnee Lake Dam spillway, 2.5 miles northwest of Emerald, Nebr.	--		07-19-74	.15
					08-23-74	.12
					09-30-74	.13
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	1971-73	11-29-73	154
					03-21-74	94
					06-24-74	48
					09-24-74	22
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, Nebr.	12.4	1971-73	11-29-73	3.1
					03-21-74	1.9
					06-24-74	2.2
					09-24-74	1.7
Oak Creek	Salt Creek	Lat 41°00'34", long 96°54'37", in NW1/4SW1/4 sec. 18, T.12 N., R.5 E., Lancaster County, at county road bridge on Lancaster-Seward County line, 5.9 miles northeast of Garland, Nebr.	--		07-19-74	2.5
					08-23-74	1.9
					09-30-74	1.2
Middle Oak Creek	Oak Creek	Lat 40°58'48", long 96°55'46", in NW1/4SW1/4 sec. 25, T.12 N., R.4 E., Seward County, on county road bridge 3.8 miles northeast of Garland, Nebr.	--		07-19-74	.50
					08-23-74	1.6
					09-30-74	1.3
Oak Creek (06803450)	Salt Creek	Lat 40°57'59", long 96°50'30", in SW1/4NE1/4 sec. 34, T.12 N., R.5 E., Lancaster County, on county road bridge .7 mile southeast of Branched Oak Lake Dam outlet, near Raymond, Nebr.	--	1963-67#	07-19-74	4.3
					08-23-74	.63
					09-30-74	.06
North Oak Creek (06803470)	Oak Creek	Lat 41°03'39", long 96°50'05", in SW1/4SW1/4 sec. 26, T.13 N., R.5 E., Saunders County, at bridge on State Highway 79, 1.0 mile south of Valparaiso, Nebr.	68.0	1971-72	05-13-74	15
					06-12-74	14
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, Nebr.	258	1971-73	11-29-73	109
					03-21-74	80
					06-24-74	38
					09-24-74	14
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, Nebr.	815	1971-73	10-23-73	571
					11-13-73	236
					12-07-73	240
					01-16-74	269
					02-06-74	304
					03-20-74	243
					04-30-74	622
					06-03-74	259
					06-13-74	193
					07-09-74	76
					08-07-74	71
					08-20-74	105
Rock Creek (06803528)	Salt Creek	Lat 41°03'08", long 96°40'43", in NW1/4SW1/4 sec. 31, T.13 N., R.7 E., Saunders County, at bridge on county road about 1.2 miles southwest of Ceresco, Nebr.	--		03-14-74	7.5
					04-08-74	6.7
					04-29-74	6.4
					05-30-74	11
					06-14-74	5.9
					07-23-74	3.4
Rock Creek (06803534)	Salt Creek	Lat 40°57'55", long 96°29'52", in NW1/4SW1/4 sec. 35, T.12 N., R.8 E., Lancaster County, at bridge on county road 3.0 miles west of Greenwood, Nebr.	--	1971-72	05-14-74	21
					06-13-74	16

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Platte River Basin--Continued						
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, Nebr.	1,118	1971-73	11-13-73	308
					01-16-74	436
					02-07-74	386
					03-29-74	328
					06-14-74	257
					07-16-74	117
					08-13-74	135
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, Nebr.	--		10-24-73	10
					11-14-73	9.3
					01-30-74	12
					03-12-74	11
					04-10-74	8.6
					05-16-74	7.8
					06-28-74	4.7
					07-16-74	5.2
					08-30-74	4.1
					09-18-74	5.5
Wahoo Creek	Salt Creek	Lat 41°12'07", long 96°37'21", in SW1/4NW1/4 sec. 10, T.14 N., R.7 E., Saunders County, at bridge on U.S. Highway 77 at south edge of Wahoo, Nebr.	--		05-13-74	32
					06-12-74	29
Sand Creek	Wahoo Creek	Lat 41°13'22", long 96°36'32", in SW1/4SE1/4 sec. 34, T.15 N., R.7 E., Saunders County, at bridge on U.S. Highway 77, .5 mile northeast of Wahoo, Nebr.	--		05-13-74	26
					06-12-74	22
Wahoo Creek	Salt Creek	Lat 41°03'13", long 96°22'03", in SW1/4NW1/4 sec. 36, T.13 N., R.9 E., Saunders County, at bridge on State Highway 63, .7 mile north of Ashland, Nebr.	--		05-14-74	97
					06-13-74	78
Salt Creek [1] (06805000)	Platte River	Lat 41°02'50", long 96°20'30", in SW1/4 sec.31, T.13 N., R.10 E., Saunders County, at bridge on U.S. Highway 6, 1 mile east of Ashland, Nebr., and 2.5 miles upstream from mouth.	1,617	1947-67#, 1971-73	10-23-73	698
MillCreek [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, Nebr.	--	1973	04-25-74	3.5
					05-30-74	88
					06-26-74	3.2
Buffalo Creek	Platte River	Lat 41°02'50", long 96°08'18", in SE1/4SE1/4 sec. 35, T.13 N., R.11 E., Sarpy County, at bridge on State Highway 50, 2.5 miles south of Springfield, Nebr.	--		05-14-74	2.5
					06-13-74	3.8
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, Nebr.	--	1973	04-25-74	8.6
					05-30-74	454
					06-26-74	7.4
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, Nebr.	--	1947, 1950-73	04-25-74	27
					05-30-74	796
					06-26-74	20
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 Nebr.	--	1973	04-25-74	22
					05-30-74	75
					06-26-74	17

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Kansas River basin				
Spring Creek	Willow Creek	Lat 40°26'10", long 100°42'00", in NW1/4NW1/4 sec. 2, T.5 N., R.30 W., Frontier County, at county road bridge, 2.7 miles west of Quick, Nebr. and 2.8 miles east of Saint Ann, Nebr.	--		07-25-74	0
					08-26-74	0
					09-23-74	0
Rope Creek	Republican River	Lat 40°06'35", long 99°25'05", in center of sec. 25, T.2 N., R.19 W., Harlan County, at county bridge, 2.5 miles southeast of Orleans, Nebr.	--		07-19-74	.18
					08-20-74	.10
Prairie Dog Creek	Republican River	Lat 40°00'27", long 99°24'12", in NW1/4SW1/4 sec. 31, T.1 N., R.18 W., Harlan County, at county road bridge, 7 miles south and 2 miles west of Alma, Nebr.	--		07-26-74	0
					08-26-74	0
Prairie Dog Creek	Republican River	Lat 40°00'45", long 99°22'10", in SW1/4NW1/4 sec. 33, T.1 N., R.18 W., Harlan County, at bridge on U.S. Highways 183 and 383, 6 miles south of Alma, Nebr.	--		07-19-74	.01
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, Nebr.	--	1970b	07-01-74	.77
					07-23-74	2.0
					08-15-74	.11
					09-25-74	0
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, Nebr.	--	1969-70b	07-23-74	9.0
					08-15-74	5.3
					09-25-74	0
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, Nebr.	--	1968-70b	07-01-74	7.8
					07-23-74	17
					08-14-74	12
					09-25-74	0
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, Nebr.	--	1973	11-27-73	192
					01-29-74	74
					02-22-74	427
					04-11-74	86
					05-14-74	365
					07-16-74	16
					08-21-74	37
					09-13-74	13
Big Blue River (06880530)	Kansas River	Lat 40°46'30", long 97°02'35", in NW1/4SW1/4 sec.1, T.9 N., R.3 E., Seward County, at bridge on U.S. Highway 6, at north edge of Milford, Nebr.	--	1967, 1969, 1973	05-14-74	227
Big Blue River (06880550)	Kansas River	Lat 40°42'36", long 96°59'46", in NW1/4NE1/4 sec.32, T.9 N., R.4 E., Seward County, at bridge on county road 5.2 miles southeast of Milford, Nebr.	--	1969, 1973	05-16-74	164
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, Nebr.	--	1973	10-11-73	422
					11-07-73	16
					02-20-74	3.3
					03-20-74	2.5
					04-15-74	6.5
					05-29-74	9.9
					09-16-74	8.1
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 Syockham, Nebr.	--	1969-70b	07-01-74	33
					07-23-74	52
					08-14-74	20
					09-24-74	5.1
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, Nebr.	--		05-01-74	0
					07-01-74	6.4
					07-23-74	20
					09-24-74	0

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Kansas River basin--Continued				
West Fork Big Blue River (06880760)	Big Blue River	Lat 30°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, Nebr.	--	1969-70b	07-02-74	59
					07-23-74	102
					08-14-74	70
					09-24-74	23
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, Nebr.	--	1969-70b, 1972-73	06-10-74	338
					06-26-74	.60
					07-23-74	15
					08-14-74	12
					09-24-74	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, Nebr.	--	1968-70b	07-01-74	3.6
					07-23-74	27
					08-14-74	19
					09-24-74	1.4
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, Nebr.	--	1969-70b	05-02-74	0
					07-01-74	0
					07-23-74	1.1
					08-14-74	3.0
					09-24-74	0
West Fork Big Blue River (06880910)	Big Blue River	Lat 40°41'05", long 97°01'34", SW1/4SW1/4 sec. 6, T.8 N., R.4 E., Saline County, at bridge on county road 5.0 miles northwest of Crete, Nebr.	--		05-13-74	154
Big Blue River (06880950)	Kansas River	Lat 40°37'41", long 96°58'15", SE1/4SE1/4 sec. 28, T.8 N., R.4 E., Saline County, in southeast corner of Tuxedo Park in Crete, Nebr.	--		05-14-74	353
Big Blue River (06881052)	Kansas River	Lat 40°27'42", long 96°56'53", in SW1/4NW1/4 sec. 26, T.6 N., R.4 E., Saline County, at bridge 1.5 miles southeast of Wilber, Nebr.	--		05-15-74	386
Big Blue River (06881420)	Kansas River	Lat 40°21'42", long 96°51'48", in NW1/4NE1/4 sec.33, T.5 N., R.5 E., Gage County, at bridge on county road 4.2 miles southeast of Dewitt, Nebr.	--	1968-69, 1973	05-15-74	438
					05-17-74	428
Big Blue River (06881600)	Kansas River	Lat 40°11'50", long 96°39'45", in NE1/4SW1/4 sec.29, T.3 N., R.7 E., Gage County, at bridge on county road just upstream from Holmesville, Nebr.	--		05-16-74	481
Big Blue River (06881700)	Kansas River	Lat 40°18'22", long 96°39'15", in NE1/4SE1/4 sec.17, T.2 N., R.7 E., Gage County, at bridge on county road just upstream from Blue Springs Dam at east edge of Blue Springs, Nebr.	--		05-17-74	491
Big Blue River (06881710)	Kansas River	Lat 40°06'35", long 96°37'23", in NW1/4SE1/4 sec. 21, T.2 N., R.7 E., Gage County, at bridge on county road about 2.5 miles southeast of Wymore, Nebr.	--		05-15-74	566
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 Ong, Nebr.	--	1970b	05-01-74	0
					07-01-74	3.2
					07-23-74	8.6
					09-24-74	0
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 Ong, Nebr.	--	1970b	05-01-74	0
					07-01-74	5.1
					07-23-74	7.3
					09-24-74	0

* Also a crest-stage gage.
# Operated as a continuous-record gaging station.
1 Also published with additional data in Part 2 of this report.
a Gage heights, or gage heights and discharge measurements only.
b Published as a low-flow partial-record station.

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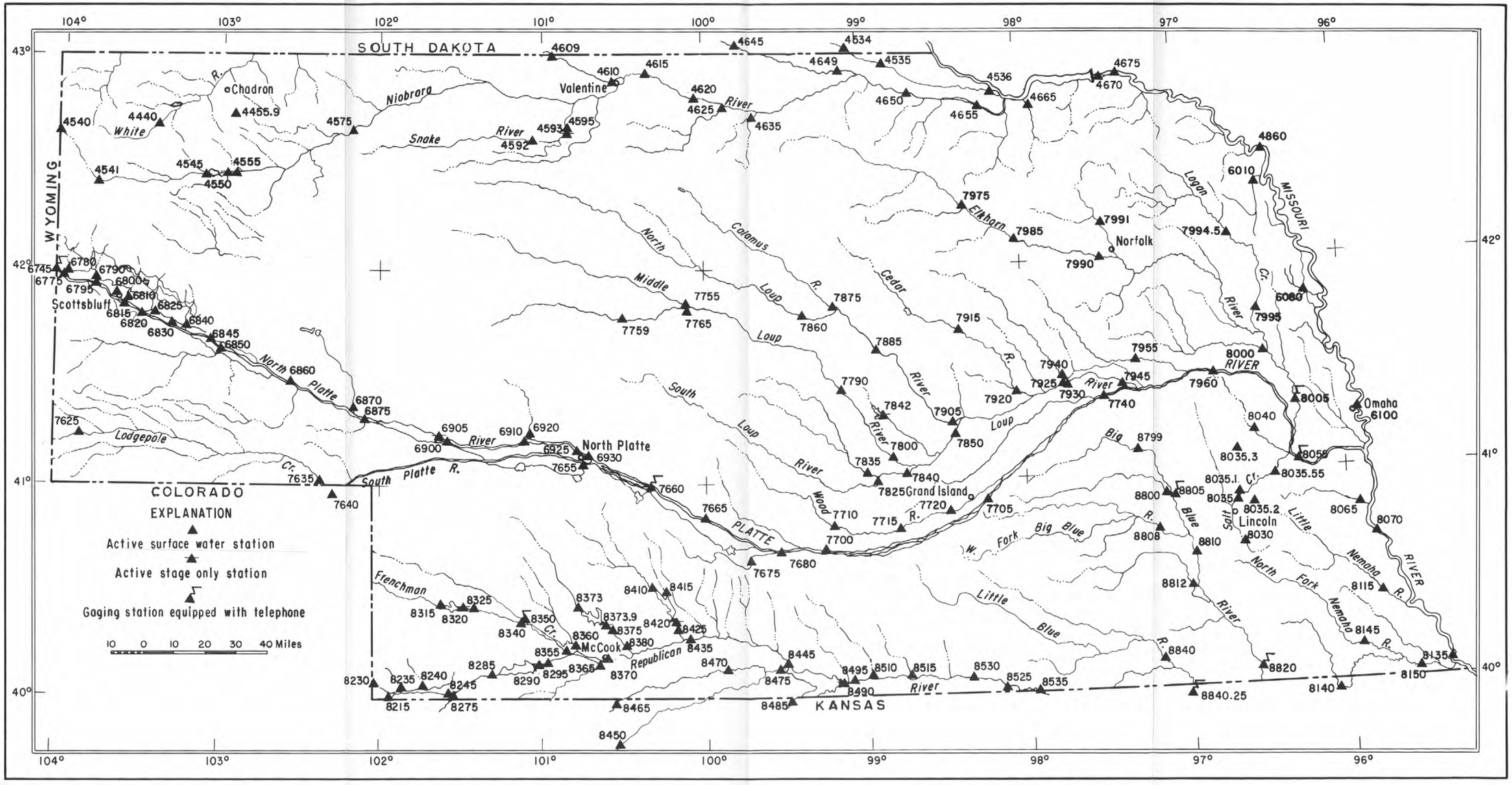

Figure 1.--Map of Nebraska showing location of complete-record stations.

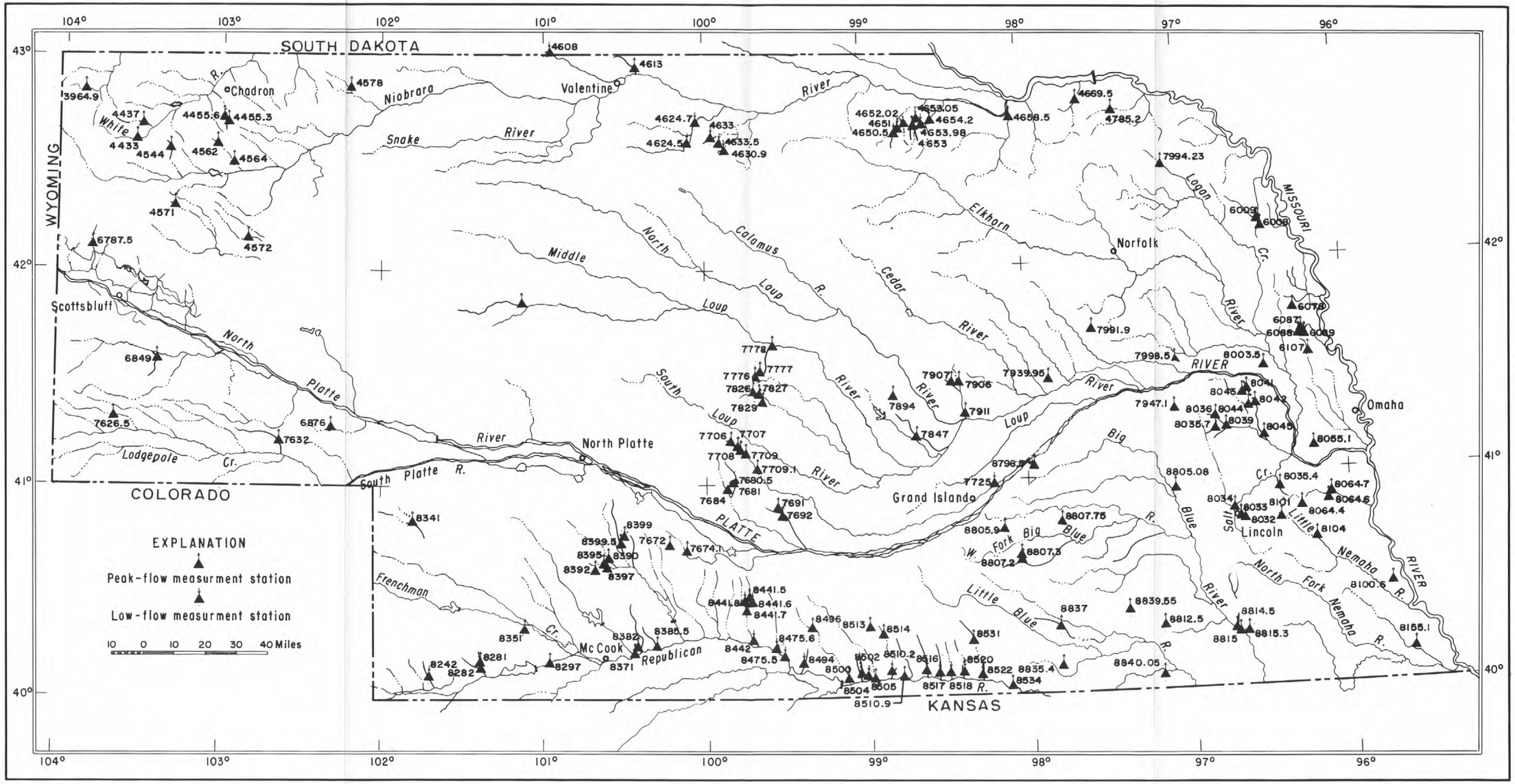

Figure 2.--Map of Nebraska showing location of partial-record stations.

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Geological Survey
Federal Building and Courthouse
110 Centennial Mall North
Lincoln, Nebraska 68508